April 3, 2018

A Matter of Record (301) 890-4188

Min-U-Script® with Word Index

CD	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 1		Page 3
1	FOOD AND DRUG ADMINISTRATION	1	Elizabeth Hart, M.D.
2		2	Medical Officer, Division of Gastroenterology &
3		3	Inborn Errors Products (DGIEP), OND
4		4	
5	CDER and You: Keys to Effective Engagement	5	Lucas Kempf, M.D.
6		6	Acting Associate Director, Rare Diseases Program,
7	Public Workshop	7	Office of New Drugs (OND)
8		8	
9		9	LCDR Sadhna Khatri, Pharm.D., M.P.H., M.S., M.Ed.
10		10	Regulatory Officer, PASE
11		11	
12		12	Alexandra Kruse
13	Tuesday, April 3, 2018	13	Research Coordinator, Platelet Disorder Support
14	9:08 a.m. to 3:07 p.m.	14	Association (PDSA)
15		15	
16		16	Diane Maloney, J.D.
17		17	Associate Director for Policy, Center for Biologics
18	FDA White Oak Campus	18	Evaluation and Research (CBER)
19	10903 New Hampshire Avenue	19	
20	Building 31 Great Room	20	
21	Silver Spring, Maryland	21	
22		22	
-	Page 2	-	Page 4
1	Meeting Roster		Christopher Melton
2			Health Communications Specialist, PASE
	Project Manager, PASE	3	
4			Salina Miller, M.S., M.B.A.
5		-	Health Programs Coordinator, Office of Health and
6	Communications Policy Strategist	6	Constituent Affairs (OHCA)
7	Engagement Team Lead, PASE	7	Office of the Commissioner (OC)

4		4	Salina Miller, M.S., M.B.A.
5	Rea Blakey	5	Health Programs Coordinator, Office of Health and
6	Communications Policy Strategist	6	Constituent Affairs (OHCA)
7	Engagement Team Lead, PASE	7	Office of the Commissioner (OC)
8		8	
9	Selena Daniels, Pharm.D., M.S.	9	Portia Seals, J.D.
10	Team Leader	10	Health Communications Specialist, PASE
11	Clinical Outcome Assessments (COA) Staff	11	
12		12	Pujita Vaidya, M.P.H.
13	Phyllis Foxworth	13	Acting Director, Decision Support and
14	Vice President of Advocacy, Depression and Bipolar	14	Analysis Team (DSAT)
15	Support Alliance (DBSA)	15	Office of Strategic Programs (OSP)
16		16	
17	Andrea Furia-Helms, M.P.H.	17	John Whyte, M.D., M.P.H.
18	Acting Director, Patient Affairs Staff (PAS)	18	Director
19	Office of Medical Products and Tobacco (OMPT)	19	Professional Affairs and Stakeholder Engagement
20		20	(PASE)
21	Noah Goetzel	21	
22	ORISE Fellow, PASE	22	

Page 5 Page 7 1 Janet Woodcock, M.D. 1 CONTENTS (continued) 2 Director, Center for Drug Evaluation and Research 2 AGENDA ITEM PAGE 3 3 Audience Response Questions (CDER) 4 Jamie Bishop 77 4 5 5 Understanding the Needs of CDER Drug John Wright, J.D. 6 Dockets Management Specialist, Division of Dockets Review Divisions 6 7 7 Management (DDM), Office of the Commissioner Elizabeth Hart, MD 81 8 8 Questions and Answers 92 9 9 Audience Response Questions 10 10 Portia Seals, JD 98 11 11 What CDER Can and Can't Do 12 12 Sadhna Khatri, PharmD, MPH, MS, MEd 102 13 13 Questions and Answers 115 14 14 CDER Jeopardy 15 15 John Whyte, MD, MPH 126 16 16 Rocking the Docket 17 17 John Wright, JD 147 18 18 19 19 20 20 21 21 22 22 Page 6 Page 8 1 CONTENTS 1 CONTENTS (continued) 2 AGENDA ITEM PAGE 2 AGENDA ITEM PAGE 3 Introductions and Opening Remarks 3 Discussion Panel: How to Get Your 4 John Whyte, MD, MPH 10 4 Voice Heard 5 5 Welcome Moderator 6 Janet Woodcock, MD 13 6 Rea Blakey 156 7 Audience Response Questions/5 Things 7 Panelists 8 8 Externally-Led PFDDs You Need to Know About the Drug 9 Approval Process 9 Pujita Vaidya, MPH 158 10 10 Noah Goetzel 25 FDA Patient Affairs 11 11 Live Demo: FDA.gov/RequestAMeetingOnDrugs Andrea Furia-Helms, MPH 168 12 Christopher Melton 32 12 Office of Health & Constituent Affairs 13 Questions and Answers 37 13 Patient Representative Program 14 Collecting Patient Experience Data: 14 Salina Miller, MS, MBA 175 15 15 How You Can Best Help FDA CBER Patient Engagement 16 Selena Daniels, PharmD, MS 47 16 Diane Maloney JD 183 17 17 Questions and Answers 56 Ouestions and Answers 197 18 Supporting Rare Disease Drug Development: 18 Audience Response Questions

CDER's Rare Diseases Program

Lucas Kempf, MD

Ouestions and Answers

19

20

21

22

19

20

21

22

62

73

Christopher Melton

204

CD	ER and You: Keys to Effective Engagement			April 3, 2018
		Page 9		Page 11
1 2	C O N T E N T S (continued) AGENDA ITEM	PAGE		you to present. But please don't keep them. They
3	Learn from the Pros			won't work in any other type of device. There will be an expense to us if we don't have them.
4	Alexandra Kruse	207	4	I do want to welcome you to our third
5	Phyllis Foxworth	219	-	workshop, which is CDER and You: Keys to Effective
6	Questions and Answers	230		Engagement. And really our goal in this meeting
7	Final Poll Questions			and workshop is to help you understand a little bit
8	Noah Goetzel	234	8	about the FDA and particularly about the Center for
9	Closing Remarks		9	Drug Evaluation and Research. We affectionately
10	John Whyte, MD, MPH	237	10	call this our boot camp, which is how do you get
11			11	some skills, how do you learn who to talk to, as
12			12	well as how do you have a better understanding of
13			13	what we can and cannot discuss. We're going to
14			14	talk a little bit about the circumstances under
15			15	which we cannot disclose as much information as
16			16	perhaps we would like.
17			17	We encourage all of you, whether you're in
18			18	the room or online, to ask questions. You can do
19			19	that via the webcast and interact with our
20			20	presenters. So we're not going to interrupt the
21				presenters, but we are allowing sufficient time for
22			22	you ask questions, and we really encourage that.
		Page 10		Page 12
1	PROCEEDINGS		1	The workshop is being recorded for archival
2	(9:02 a.m.)		2	purposes, but if for some reason you wanted to

2 purposes, but if for some reason you wanted to (9:02 a.m.) Introductions and Opening Remarks 3 watch it again, you're welcome to. We'll provide 3 DR. WHYTE: Good morning, everyone. We're 4 copies of all the slides if you want to have them, 4 5 going to go ahead and get started. I know there 5 and we'll make them available on line as well as 6 are some traffic issues, but in the interest of 6 all of our contact information. 7 time, we'll go ahead and get started since there's We're going to start off with a welcome by 7 8 a bunch of folks online as well, and we try to end 8 our center director, Dr. Janet Woodcock. As many 9 on time. 9 of you know, she's the director of the Center for For those folks in the room, all of you 10 Drug Evaluation and Research here at the FDA. She 10 11 should have gotten this packet of information when 11 has led many cross-cutting initiatives. While at 12 you checked in, which has some information which I 12 the FDA, she introduced the concept of 13 think you'll find useful, which is an 13 pharmaceutical risk management in 2000. 14 organizational chart of the Center for Drug As a new approach to drug safety, she's led 14 15 Evaluation and Research, as well as a case study, 15 the pharmaceutical quality for the 21st Century 16 which we're going to talk a little bit about later. 16 Initiative since 2002. Prior to joining CDER, she was the director of Office of Therapeutics Research 17 Then in the spirit of having fun at the 17 18 meeting, I want you all to pick up one of these and Review with CBER, which is the Center for 18 19 clickers. They should be at your table. We're Biologics Evaluation and Research, and during my 19 20 going to have some audience response and hopefully four and a half years here at the FDA, she really 20 21 it will be informative. No one will be judged. 21 has been the champion of patient engagement, and

22 All the answers are anonymous, so I can encourage

22 ever since I came here to FDA have talked about how

Foc CD	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 201
	Page 13		Page 15
1	do we measure what's clinically meaningful to	1	tell you this story to say at one point, you know a
	patients, how do we hear the patient voice, and		lot more about CDER right now than I did at that
	really talked about trying to change the culture of		point. It was very daunting. It was kind of black
	the agency and the center.		box. There wasn't really open portals for which
5	I remember when I was meeting with her prior		those citizens who wished to interact with the
	to coming, she said it's almost like a huge ship,		agency had an easy access to figure out what to do
	and if we can move this ship even a few degrees, we		or whether something was possible.
	will have made progress. So I'm not sure how many	8	Still today, I think we suffer. People,
	degrees we have moved it, but I know there is some		citizens, whether they're representing patient
	movement as we think about patient engagement.		groups, or consumer groups, or a pharmaceutical
		10	
11	So it's my pleasure to introduce Dr. Janet Woodcock.		developer, or some other stakeholder, you may get
		12	back a very polished lawyer that has answers that
13	(Applause.)	13	really are difficult to make heads or tails of what
14	Presentation - Janet Woodcock		we're saying. And I think, John, what you were
15	DR. WOODCOCK: Thanks very much, John, and I	15	
	•		about what we can and cannot talk about.
17		17	We still struggle with plain, ordinary
	and your staff because a lot of contributions have	18	language and just telling people like it
19	been made to get us more outward facing and more	19	is here's the scoop so that you understand
	engaged with the public. The topic of this	20	where you stand. I think one of the major issues
	workshop today is engagement with FDA CDER, the	21	is that people here are very busy, the scientists
22	drug regulators, and how might one do that.	22	and doctors. They're often heads down working on
	Page 14		Page 16
1	First of all, I could say I understand how	1	the data and looking at evidence and judging
2	daunting a task this might be. Before I came to	2	evidence both in clinical trials. Is the trial
3	the FDA, which was long ago, I was a doctor taking	3	safe to proceed? Are they doing the right designs?
	care of patients, and I had a need to get one of my	4	Are they studying the right endpoints and so forth?
5	critically ill patients a drug called thalidomide.	5	And then everybody looks at the marketing
6	And little did I know what a history that had with	6	applications and did they demonstrate what they
7	the FDA and so forth.	7	needed to? Is this drug going to be okay when it
8	So I attempted to locate the FDA. I called	8	goes out on the market? And then we have millions
9	all these different people and everything, and I	9	of reports of adverse events all the time, and we
10	said I want to get this drug thalidomide, and they	10	have to sort through those and make sense of those.
	mentioned things like the Code of Federal	11	So much of our large scientific staff is
	Regulations. I said, "What's that?" I got all what	12	working on that. Last year we approved, for
13	I considered sort of bureaucratic speak and run	13	example, 1400, I think, generic drugs, and we
	around, and I tried and I tried. Finally somebody		
	told me you have to find somebody who's making	15	processed thousands of them and sent them back to
			the manufacturer. So much of our staff is engaged
17	really being imported into the United States, and	17	in doing that work on behalf of the public,
18		18	surveilling the adverse events, surveilling the
19	difficult, and I couldn't find anybody to give it	19	facilities that make drugs and so forth. So it's
	to me.	20	hard for them to switch gears from that extremely
21	Hopefully, things have changed since then.		scientific activity that they do and then face
	There is more transparency to the agency, but I		outward and work with the general stakeholder

CD	ER and You: Keys to Effective Engagement	1	April 3, 2018
	Page 17		Page 19
1	communities.	1	information out, like the snapshots that PASE has
2	So we have been trying for years to develop		done because people ask us everyday they were
3	better interfaces so that anybody who comes to talk		asking us why don't you put more women in trials,
4	to us, whether they're small business, whether	4	why don't you put more elderly in trials. So now
	they're a patient or patient advocacy group, they		we're putting out the numbers. First it's like, we
	know where to go and how to get entree into the		don't do the trials but here are the people the
	agency, and then kind of how to work the lever so		trials had in them, and this has helped I think
8			tremendously to elevate the level of dialogue about
9	somebody to talk to get their questions answered.		that particular issue.
10	Our Division of Drug Information answers	10	
11	thousands of emails and calls every year, thousands	11	But then we also are trying to have better avenues
	and thousands, and yet there seems to be an		to work back and forth so that people can get their
	insatiable appetite for information about drugs and		questions answered and also can interact with the
	health, and about the drug development process, and		appropriate part of CDER that they want to interact
	about whether generic drugs are good enough, and		with.
	whether biosimilars are actually the same as other	16	
	drugs; all these questions, and I had this side	17	set up a meeting with CDER, how to request a
	effect and could it be related to the drug I was		meeting outside of the drug development process,
	taking, and so forth and so on.		which we have very structured meetings for generic
20	At a higher, more integrated level, beyond		drugs and new drugs and so forth, but for other
21	personal questions, we have hundreds of		stakeholders, how do you do that? We're trying to
22	stakeholders, why aren't you moving development for		get a system in place we have gotten a system in
	Page 18		Page 20
1	our orphan disease fast enough; why aren't you	1	place, but we really need to make it work, how to
2	developing new endpoints for this very serious	2	get a meeting with the right people and make sure
3	disease such as, say, Alzheimer's? A lot of people	3	that if you meet with the center, that your agenda
4	don't realize and partly because we need to	4	is fully vetted and the right people are at the
5	effectively communicate with them, we're funded	5	table to engage with the issues.
6	as a regulatory agency. We aren't funded to do	6	So that's something we've done. We've tried
7	research.	7	to improve transparency. We've tried to improve
8	A lot of Americans think we do all the	8	our outreach and the amount of information that is
9	clinical trials, for example, that the companies do	9	available to people, and then we also need to
10	and that NIH funds and so forth. They think we do	10	improve this back and forth so that people can come
11	them. So if anything goes wrong, they call us,	11	in and get their questions answered, or advance
12	like why didn't you do this trial about this drug?	12	their own agenda, or let us know what their agenda
13	There is just a tremendous amount of	13	is. But for that to happen, we need to have at
14	misinformation. So many stakeholders, some of whom	14	least semi-informed stakeholders.
15	are highly sophisticated and many of whom really	15	The first five calls I made to the FDA back
16	were like me with the thalidomide, never heard of	16	in the day of trying to get thalidomide, I was very
17	the federal Code of Regulations or whatever and	17	ineffective because I didn't even know what an IND
18	really don't understand the FDA whatsoever, except	18	was, so I was starting at the most basic level of
19	that we want something, and they're part of the	19	asking information. It's a very inefficient
20	potential solution.	20	process, and at the time, I had to ask many people
21	In addition to setting up better	21	and learn many, many things to the point
22	transparency, one thing we try to do is put more	22	where and I had actually participated in
22	a anoparonoy, one aming we ay to do to pat more		

C	DER and You: Keys to Effective Engagement		April 5, 2018
	Page 21		Page 23
	1 clinical trials. I had done a lot of things, but I	1	efficient both for you and for us so that you won't
	2 didn't know all this bureaucratic regulation		be like me, or your various constituents won't be
	3 underlying all this.	3	
	4 One of the most important things is that we	4	multiple, multiple range of phone calls and
	5 help the level of engagement to the point that		investigations trying to figure out something that
	6 we're dealing with informed stakeholders who at	6	
	7 least can formulate in their own minds what they	7	to you in plain language.
	8 want from us so they can ask the question. We	8	
	9 almost need a leading edge of interaction that we	9	thank all of you for showing up and the people
1	o inform everybody about what we do, what we don't		online, too. I think this will be a very useful
	1 do, what you can expect from us, and what actually		exchange, and we'll, again, tip the axis of that
	2 some other agency does or things we aren't actually		ocean liner yet a little toward our ultimate goal
	3 doing. No, we can't do a clinical trial in this		of really serving our stakeholders well. Thank
	area. We don't do clinical trials. We're not		you. Thanks, John.
	5 funded to do clinical trials.	15	-
	6 FDA may fund a clinical trial very rarely on	16	
1	7 some raging issue, but we don't get appropriations	17	
	8 to do that, so it's not our mission really. If	18	
1	9 people can fix our role in their mind more firmly,	19	Dr. Woodcock talked about, what is that CFR? What
2	0 then we can have a better back and forth, or people		is that IND? We tend to develop a parlance here
2	1 can go and make their point to an agency that does		that we forget many people don't understand. And
	2 do clinical trials and that would be appropriate to		there's no reason why you would know some of these
	Page 22		Page 24
	Page 22		Page 24 terms unless you actually participated, but it does
	-		terms unless you actually participated, but it does
	1 talk to about that.	1	terms unless you actually participated, but it does help to become familiar.
	 talk to about that. I think that's why this kind of meeting is 	1 2 3	terms unless you actually participated, but it does help to become familiar.
	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed 	1 2 3 4	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it
	 1 talk to about that. 2 I think that's why this kind of meeting is 3 so important. You're already much more informed 4 stakeholders than our average stakeholder out 	1 2 3 4 5	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker
	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come 	1 2 3 4 5 6	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an
	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an 	1 2 3 4 5 6 7	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and
	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you 	1 2 3 4 5 6 7 8	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked
1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may 	1 2 3 4 5 6 7 8	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of
	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to 	1 2 3 4 5 6 7 8 9	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So
1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what 	1 2 3 4 5 6 7 8 9 10 11	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So
1 1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to 	1 2 3 4 5 6 7 8 9 10 11	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a
1 1 1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful 	1 2 3 4 5 6 7 8 9 10 11 12 13	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a
1 1 1 1 1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. So I would encourage everybody today, ask 	1 2 3 4 5 6 7 8 9 10 11 12 13	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener.
1 1 1 1 1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. 	1 2 3 4 5 6 7 8 9 10 11 12 13 14	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener. Noah's fun fact is that he ranked second on
1 1 1 1 1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. So I would encourage everybody today, ask 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener. Noah's fun fact is that he ranked second on his high school track team for the fastest burrito
1 1 1 1 1 1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. So I would encourage everybody today, ask your questions. Get as much information as 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener. Noah's fun fact is that he ranked second on his high school track team for the fastest burrito mile where race participants had to devour a 1-
1 1 1 1 1 1 1	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. So I would encourage everybody today, ask your questions. Get as much information as possible. Reach the highest level of mutual 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener. Noah's fun fact is that he ranked second on his high school track team for the fastest burrito mile where race participants had to devour a 1-
1 1 1 1 1 1 1 1 1 1 1 2	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. So I would encourage everybody today, ask your questions. Get as much information as possible. Reach the highest level of mutual understanding as we possibly can because this will only inform the dialogue over the next year. We really do want to serve all of our stakeholders, 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener. Noah's fun fact is that he ranked second on his high school track team for the fastest burrito mile where race participants had to devour a 1- pound Qdoba burrito and then run a mile on the track. So if you have any questions about that, you can ask him.
1 1 1 1 1 1 1 1 1 1 1 2	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. So I would encourage everybody today, ask your questions. Get as much information as possible. Reach the highest level of mutual understanding as we possibly can because this will only inform the dialogue over the next year. We 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener. Noah's fun fact is that he ranked second on his high school track team for the fastest burrito mile where race participants had to devour a 1- pound Qdoba burrito and then run a mile on the track. So if you have any questions about that, you can ask him.
1 1 1 1 1 1 1 1 1 1 1 2 2 2	 talk to about that. I think that's why this kind of meeting is so important. You're already much more informed stakeholders than our average stakeholder out there. You knew about this meeting and would come and interact with us. The more we can get an informed level of stakeholders out there, then you can help a lot of the other people, people you may represent a part of your group or whatever; to understand how to formulate their questions what the agency can and can't do; what is appropriate to pressure us to do in which it won't be useful because we're not really in charge of that thing, whatever it might be that people might want. So I would encourage everybody today, ask your questions. Get as much information as possible. Reach the highest level of mutual understanding as we possibly can because this will only inform the dialogue over the next year. We really do want to serve all of our stakeholders, 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	terms unless you actually participated, but it does help to become familiar. Remember I said we're going to make it interactive? So I ask you to pick your clicker that we're going to use, and you'll have an opportunity to meet many folks on my team, and we're going to start with Noah Goetzel. I asked everyone to provide a fun fact; some people did, some people didn't. I meant to mention, some of you may know, Dr. Woodcock is an avid gardener. So if you all are going to send her an email, if you start with some gardening conversation, that's a good tip you can use because she is very much a gardener. Noah's fun fact is that he ranked second on his high school track team for the fastest burrito mile where race participants had to devour a 1- pound Qdoba burrito and then run a mile on the track. So if you have any questions about that, you can ask him.

U	ER and You: Keys to Effective Engagement		April 5, 2018
	Page 25		Page 27
1	Audience Response Questions - Noah Goetzel	1	Evaluation and Research? A, not at all confident;
2	MR. GOETZEL: Thank you, Dr. Whyte.	2	B, somewhat confident; C, very confident. More
3	Hello, everybody. My name is Noah Goetzel.	3	confident than I am in terms of reading answer
4	I'm an ORISE fellow in Dr. Whyte's Office of	4	choices.
5	Professional Affairs and Stakeholder Engagement,	5	(Laughter.)
6	PASE. How is everybody doing today, first of all?	6	(Audience responds.)
7	You guys doing all right? Everybody good? Find	7	MR. GOETZEL: Everyone send in your answer?
8	this place okay?	8	Let's see. So most of you are in the middle;
9	(Audience responds.)	9	58 percent said somewhat confident, and then we
10	MR. GOETZEL: That's good to hear.	10	have 20 percent who said you're really not at all
11	Are you excited to learn how to interact	11	confident right now, and 22 percent are very
12	with the regulatory scientists here at FDA Center	12	confident. So hopefully by the end of this
13	for Drug Evaluation and Research?	13	presentation, you'll become a little bit more
14	(Audience responds.)	14	confident in terms of what we do here at CDER.
15	MR. GOETZEL: Yes? You guys are excited.	15	I've got one more question for you guys.
16	That's good to hear. Well, we're delighted to have	16	Finally, how confident are you in your ability to
17	you because we want to empower stakeholders like	17	navigate through engaging with CDER? Same choices,
18	you to share your unique perspectives. Whether	18	A, not at confident; B, somewhat confident; or C,
19	you're a patient, a caregiver, an academic	19	very confident.
20	researcher, or a healthcare provider, or any other	20	(Audience responds.)
21	type of representative here today, we're interested	21	MR. GOETZEL: Let's check out the responses.
22	in helping you guys share your voice with the FDA.	22	Okay. So once again, a lot of you are in the
	Page 26		Page 28
1	So before we get into our impressive slate	1	middle. We have more people this round; 44 percent
2	of presenters and presentations, I have a few	2	saying that they're not at all confident in
3	questions for you guys. I'm going to turn the	3	engaging with CDER, and then 2 percent of you are
4	tables. You're going to answer these with your	4	the experts, you're very confident, but most of
5	clickers, which are in the center of the tables,	5	you, 53 percent, somewhat confident.
6	and we can go ahead and get started with the first	6	The goal again, after the presentation,
7	question.	7	everyone's going to be very confident and engaging.
8	Is this your first time attending a meeting	8	That will wrap up the ARS presentations. We're
9	at the FDA? Click A if the answer's yes and B if	9	going to keep going back to these clicker questions
10	it's no. I'll give you a couple of seconds to send	10	throughout the day to keep you on your toes, and
11	in your answer choices.	11	the questions are going to get tougher. So this
12	(Audience responds.)	12	was the easy round, and it's going to get more
13	MR. GOETZEL: Let's check out the results.	13	difficult.
	For 80 percent of you, it's your first time here	14	I want to give a quick shout out to our
15	coming to the FDA, so welcome, everyone, and only	15	social media staff here at CDER. We are tweeting
	20 percent have been here before. I apologize.	16	
17	I'm sorry. Eighty percent of you have been here	17	information about the different speakers and
18	before. Welcome back.	18	
19			and join the conversation. Just follow the FDA
20	MR. GOETZEL: All right. Next question.	20	drug information account, that's FDA_drug_info, and
1		1	

- 20 MR. GOE IZEL: All right. Next question.
 21 How confident are you in understanding th
- How confident are you in understanding thedifferent functions of the Center for Drug

Min-U-Script®

21 the hashtag for this public workshop is

22 #CDERandyouengagementworkshop.

Cl	DER and You: Keys to Effective Engagement		April 3, 2018
	Page 29		Page 31
	So we look forward to hearing your responses	1	together. So I wanted to thank Noah. And he has a
	2 and want to make sure that everyone has the		podcast, too. I don't want to get in trouble like
	3 opportunity to find out what happens and what we		other people I mentioned, but he's big in basket
	cover at our event today, even if you're not here		ball. Go Villanova. Okay.
	5 in person or following along with our webcast.	5	With that, I'm very pleased to talk
	5 Next up, we've got a video for you guys.	6	
	7 During the ARS questions, I asked how confident you	7	
	are in understanding the functions of CDER, and a		meetings. And a challenge has been, over the
	lot of you said you're kind of somewhat confident.		years and Dr. Woodcock referenced it it's
	So I want to make sure that you have the		hard to figure out who do you meet with if you want
	L opportunity to learn more about what we do in terms		to have a meeting. And it's hard to contact
	2 of the drug approval process, and you'll hear a ton		anybody here. How do you possibly find out? I
	of presentations today. My colleague in PASE,		mean, I don't know who answers the phone and
	Lieutenant Commander Sadhna Khatri, will be leading		directs you to the right number. And does anybody
	5 our presentation on what CDER can and can't do.		call anybody anymore anyway? You just kind of
16	·		email. So how can you figure out who do you meet
17	internet or on the Professional Affairs Stakeholder		with and how do you get a meeting?
18	3 webpage, will tell you five things you need to know	18	Recognizing that, we have created and just
	about the drug approval process. So you can go	19	launched an online system for meeting requests for
	ahead and just Google if you're trying to find the		stakeholders outside of regulated industry, and
	FDA five things you need to know video, and you can		we're affectionately calling it ESMR, the External
	2 enjoy this video that we have for you. It will be		Stakeholder Meeting Request. And if you have a
	Page 30		Page 32
	Page 30	1	Page 32 better acronym for it, we're always willing to
	-		-
2	L just two quick minutes.	2	better acronym for it, we're always willing to
2	L just two quick minutes. 2. (Video played.)	2 3	better acronym for it, we're always willing to listen. This is an attempt really to make it easy
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're 	2 3 4	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about 	2 3 4 5	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with.
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage 	2 3 4 5	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the 	2 3 4 5 6	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work.
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. 	2 3 4 5 6 7	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas?
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) 	2 3 4 5 6 7 8 9	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.)
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is 	2 3 4 5 6 7 8 9	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all 	2 3 4 5 6 7 8 9	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. 	2 3 4 5 6 7 8 9 10 11	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those 	2 3 4 5 6 7 8 9 10 11 12 13 14	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those a cronyms before he got here. He certainly didn't 	2 3 4 5 6 7 8 9 10 11 12 13 14	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but we'll find out. But he's going to come up and
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those acronyms before he got here. He certainly didn't know CDER and IND and all of that. 	2 3 4 5 6 7 8 9 10 11 12 13 14	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but we'll find out. But he's going to come up and demonstrate the ESMR system. Thank you.
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those acronyms before he got here. He certainly didn't know CDER and IND and all of that. But I really want to thank him for the work 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but we'll find out. But he's going to come up and demonstrate the ESMR system. Thank you. Presentation - Christopher Melton
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those acronyms before he got here. He certainly didn't know CDER and IND and all of that. But I really want to thank him for the work that he's done, especially for this workshop. He's 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but we'll find out. But he's going to come up and demonstrate the ESMR system. Thank you. Presentation - Christopher Melton MR. MELTON: Thank you, Dr. Whyte.
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those acronyms before he got here. He certainly didn't know CDER and IND and all of that. But I really want to thank him for the work that he's done, especially for this workshop. He's the youngest person on our team, so that's why it's 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but we'll find out. But he's going to come up and demonstrate the ESMR system. Thank you. Presentation - Christopher Melton MR. MELTON: Thank you, Dr. Whyte. Good morning, everyone. I wanted to go back
	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those acronyms before he got here. He certainly didn't know CDER and IND and all of that. But I really want to thank him for the work that he's done, especially for this workshop. He's the youngest person on our team, so that's why it's always he's in charge of our social media and 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but we'll find out. But he's going to come up and demonstrate the ESMR system. Thank you. Presentation - Christopher Melton MR. MELTON: Thank you, Dr. Whyte. Good morning, everyone. I wanted to go back to Noah's fun fact. Were you able to keep the
2 4 4 4 4 4 4 4 5 5 9 9 10 12 12 14 14 15 14 15 16 17 17 16 17 17 17 16 17 17 17 17 17 17 17 17 17 17	 just two quick minutes. (Video played.) MR. GOETZEL: There you have it. We're going to have a lot more presentations today about what CDER does here in the FDA and how to engage with us. Thanks very much. Enjoy the presentations. (Applause.) DR. WHYTE: I want to thank Noah. Noah is what's called ORISE fellow. It's acronyms all over. I'm not even sure what ORISE stands for. But essentially, Noah is similar to an internship. It's time to come here and spend, and learn about the FDA. And I know he didn't know all those acronyms before he got here. He certainly didn't know CDER and IND and all of that. But I really want to thank him for the work that he's done, especially for this workshop. He's the youngest person on our team, so that's why it's 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	better acronym for it, we're always willing to listen. This is an attempt really to make it easy for folks to request a meeting on drugs, and you don't even need to know who you need to meet with. And Chris Melton is going to come up and demonstrate it live, and hopefully it will work. Do we have anyone here from Texas? (Show of hands.) DR. WHYTE: Okay. Chris' fun fact, so he says, is that he's from a small town in Texas called Jefferson. I don't know if it's Thomas Jefferson or Jefferson Davis. But he says it's the most haunted town in Texas. Karen, is that true? I don't know, but we'll find out. But he's going to come up and demonstrate the ESMR system. Thank you. Presentation - Christopher Melton MR. MELTON: Thank you, Dr. Whyte. Good morning, everyone. I wanted to go back

	ER and You: Keys to Effective Engagement Page 33		April 3, 2013 Page 35
	-		
	the whole point of ESMR, it's a three-part		Dr. Woodcock, we started the planning and
	solution, and the system, and the part I'm going to		development process of the web page. With guidance
	go over, is the website. That will be facing you.		from the PASE's director, Dr. Whyte, and assistance
	As Dr. Whyte alluded to, I'm a health		from our colleagues in the Office of Strategic
	communications specialist in the engagement staff,		Programs, the Office of Program Regulatory
	and I want to go over the parts for the web page.		Operations, and the Office of Communications, we
	And as I transition through the workshop, I will		successfully launched the system on February 9,
	basically go through the live demo and show you	8	2018.
	everything that will need to be seen. Before I get	9	What I would like to do is go over the web
	into the demo, I will use about 5 to 7 minutes to		page with three specific parts. As you can see
	give you a brief live demo, and then from there, we	11	here, we're going to look at Resources for You.
12	will move into the Q&A section.	12	This is an area where you're able to get specific
13	Before I go to the live demo, just to give	13	information for CDER's drug divisions and then also
	you some background, parts of the 21st Century		about the Professional Affairs and Stakeholder
15	Cures Act mandated integrating patient experience	15	Engagement. We also have information for other
16	into the drug development process, and that	16	meetings. There may be requests that come out that
17	increased patient centricity. CDER has increased	17	are not regulated to drugs, and you have other
18	the number of interactions with external	18	areas that you need to go to. So we ask that you
L9	stakeholders, specifically with patient advocacy	19	contact OHCA, and we have that information here.
20	groups, with diverse needs and expectations in the	20	Finally, the last part, what I will go into,
21	understanding about the drug development process.	21	will be the Request a Meeting on Drugs itself,
22	The current environment at CDER was that	22	which is the intake form, and we have two spots
	Page 34		Page 36
	Page 34 there was a lack of consistent processes for		Page 36 where that can be accessed. Again, as you see,
1	-	1	
1 2	there was a lack of consistent processes for	1 2	where that can be accessed. Again, as you see,
1 2 3	there was a lack of consistent processes for external non-industry stakeholders. I just want to	1 2 3	where that can be accessed. Again, as you see, this web page is very straightforward and simple,
1 2 3 4	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on	1 2 3	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and
1 2 3 4 5	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already	1 2 3 4 5	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access.
1 2 3 4 5 6	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical	1 2 3 4 5 6	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a
1 2 3 4 5 6	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry	1 2 3 4 5 6 7	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a
1 2 3 4 5 6 7 8	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders.	1 2 3 4 5 6 7 8	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of
1 2 3 4 5 6 7 8 9	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able	1 2 3 4 5 6 7 8 9	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have
1 2 3 4 5 6 7 8 9	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole	1 2 3 4 5 6 7 8 9	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible
1 2 3 4 5 6 7 8 9 LO	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able	1 2 3 4 5 6 7 8 9 10 11	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have
1 2 3 4 5 6 7 8 9 10 11	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the	1 2 3 4 5 6 7 8 9 10 11 12	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here
1 2 3 4 5 6 7 8 9 L0 L1 L2 L3	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet	1 2 3 4 5 6 7 8 9 10 11 12 13	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here
1 2 3 4 5 6 7 8 9 10 11 12 13	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet with these stakeholders.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here looking at other meetings within FDA, this will
1 2 3 4 5 6 7 8 9 10 11 12 13 14	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet with these stakeholders. Moving back to Dr. Woodcock's vision, she	1 2 3 4 5 6 7 8 9 10 11 12 13 14	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here looking at other meetings within FDA, this will show established pathways that are currently
1 3 4 5 6 7 8 9 10 11 12 13 14 15	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet with these stakeholders. Moving back to Dr. Woodcock's vision, she recognized that meetings with advocacy groups,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here looking at other meetings within FDA, this will show established pathways that are currently available to have other meetings within FDA.
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet with these stakeholders. Moving back to Dr. Woodcock's vision, she recognized that meetings with advocacy groups, healthcare professionals, and other non-industry stakeholders is vital to our work. Dr. Woodcock's	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here looking at other meetings within FDA, this will show established pathways that are currently available to have other meetings within FDA. For the sake of time, I pre-filled out a form using a test, but once you're ready to submit
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet with these stakeholders. Moving back to Dr. Woodcock's vision, she recognized that meetings with advocacy groups, healthcare professionals, and other non-industry stakeholders is vital to our work. Dr. Woodcock's vision was to create a user-friendly process for	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here looking at other meetings within FDA, this will show established pathways that are currently available to have other meetings within FDA. For the sake of time, I pre-filled out a form using a test, but once you're ready to submit your request, you'll click on the button, and it
1 2 3 4 5 6 7 8 9 LO L1 L2 L3 L4 L5 L6 L7 L8 L9	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet with these stakeholders. Moving back to Dr. Woodcock's vision, she recognized that meetings with advocacy groups, healthcare professionals, and other non-industry stakeholders is vital to our work. Dr. Woodcock's vision was to create a user-friendly process for external, non-industry stakeholders to easily	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here looking at other meetings within FDA, this will show established pathways that are currently available to have other meetings within FDA. For the sake of time, I pre-filled out a form using a test, but once you're ready to submit your request, you'll click on the button, and it brings up your form. Now, on this form here, you
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 12 12 12 12 12 12 12 12 12 12	there was a lack of consistent processes for external non-industry stakeholders. I just want to continue to highlight that we're focusing again on non-industry stakeholders because there are already established pathways for the pharmaceutical industries or what we call the industry stakeholders. Now, the downside of that was that the communication wasn't as clear and we weren't able to have transparency between groups. And the whole point of this is to keep transparency between the meetings and all of our review divisions as we meet with these stakeholders. Moving back to Dr. Woodcock's vision, she recognized that meetings with advocacy groups, healthcare professionals, and other non-industry stakeholders is vital to our work. Dr. Woodcock's vision was to create a user-friendly process for	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	where that can be accessed. Again, as you see, this web page is very straightforward and simple, so we want to keep that just nice and clean and easy to access. Going to the table, looking at Resources for You, as you can see, this is going to give you a list of all the different offices within CDER. And as Dr. Woodcock mentioned, if you're not aware of all the different offices or divisions, we have this information here where it's easily accessible for you to see prior. Then again, we will also manage that on the triage process. And here looking at other meetings within FDA, this will show established pathways that are currently available to have other meetings within FDA. For the sake of time, I pre-filled out a form using a test, but once you're ready to submit your request, you'll click on the button, and it brings up your form. Now, on this form here, you

Foc CD	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 2018
	Page 37		Page 39
1	are the key essential information that we need to	1	So it's important to understand, for the
	run the meeting and get the key factors that are		center and for the senior leadership, how many
	needed.		meetings have we had on patient engagement and what
4	Once that entered and again, I'll go to		are the patients and other groups this is also
	my test you click the "submit" button, and then		for other groups other than regulated industry, so
	that goes to our CDER PASE inbox. And you'll get a		it could be health professional, physician groups.
	response that within 7 business days, someone from		What are they coming to talk about? Are they
	PASE will get in contact with you, and we will then		coming in to talk about neurologic diseases, or are
	start triaging the meeting process.		they coming in to talk about psychiatric
10	With that, we will move to the question and		conditions? Is it dermatologic issues?
	answer section, and if anyone has any questions,	11	In the past, we had to do this all manually,
	please feel free to go to the microphones. And		which is very hard to do. And again, this really
	we'll have a runner also bring the mic around so		is a way to encourage dialogue, to encourage
	you can ask any questions.		engagement, which is two ways. So it's a good
15	Questions and Answers		point. We don't want to duplicate anything or
16	FEMALE AUDIENCE MEMBER: Hi. I just have a		complicate anything. In many ways, with the
	question on the form. I didn't see like if you		free-form text, people can just add that in. And
	already had a contact at FDA, is there a place in		we do promise to get back to folks within
	that form that you can enter their name to help you		7 business days. That doesn't mean that we'll have
	with your process of routing it to the right		a meeting in 7 business days, but we're certainly
	division or person?		going to get back to you to start the process.
22	MR. MELTON: Good question. Currently right	22	MR. MELTON: Any more questions? We have
	Page 38		Page 40
1	now, there's not a section in the form where that	1	another one.
2	could be done, but what we will do when we call it	2	MS. FOXWORTH: This is Phyllis Foxworth from
3	with the initial information, that's when we can	3	the Depression and Bipolar Support Alliance. Thank
4	tease out that information for the people that you	4	you so much for being here. When I first started
5	currently have relationships with.	5	engaging with the FDA, I certainly was not a
6	DR. WHYTE: I think the other point is we do	6	professional patient. I'm just a patient and a
7	have a section on there about proposed attendees.	7	caregiver of other patients. I still don't
8	It's all free form as well, so I think you could	8	consider myself a professional patient.
9	add in there the contact that you have. This is	9	So my question is the form is great, and
10	meant to simplify a process as well, so we don't	10	maybe we'll cover this throughout the day. But the
11	want to duplicate anything.	11	real question is, why would I want to schedule a
12	The reality is, many folks, and probably	12	meeting and what is the type of meeting I'd like to
13	folks that are here, do have some organizational	13	schedule given that I'm not a professional patient?
14	awareness. So what we've talked to our colleagues	14	MR. MELTON: With that, when you're asking
15	is for meetings that are already taking place.	15	you're not a professional patient, there's a
16	There's already a pat plan, and our friends and	16	progress. One reason would be for initial
	There's already a set plan, and our friends and		
17	colleagues in the Office of Hematology and Oncology	17	information that you would need to access, we can
			information that you would need to access, we can schedule a meeting and a fact-finding. Then it
18	colleagues in the Office of Hematology and Oncology	18	-
18 19	colleagues in the Office of Hematology and Oncology Products and oncology in general have very good	18 19	schedule a meeting and a fact-finding. Then it
18 19 20	colleagues in the Office of Hematology and Oncology Products and oncology in general have very good relationships with patient groups. We're just	18 19 20	schedule a meeting and a fact-finding. Then it also could be another meeting for whatever you
18 19 20 21	colleagues in the Office of Hematology and Oncology Products and oncology in general have very good relationships with patient groups. We're just ourselves going to put it into the system because	18 19 20 21	schedule a meeting and a fact-finding. Then it also could be another meeting for whatever you need. But the whole point is getting the

CD	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 41		Page 43
1	need would be, we would tease that out from	1	you can ask to talk about.
	discussions with you, and then decide what would be	2	MR. BARTEK: Guessing that there's probably
	the best route forward with the meeting.		a full range of responses that one could expect
4	DR. WHYTE: Sorry. I keep jumping in. And,		from such a request, might you give us an idea of
	Phyllis, it's nice to see you. I don't think we		what that range might be. I doubt every request
	view people as professional patients or not		· · · · · · · · · · · · · · · · · · ·
	professional patients. I'm not even sure	7	DR. WHYTE: Sure. And he's from Texas as
	necessarily what that means. But what we hear from	8	well or he raised his hand. Part of it is to have
	the public is this need for information, this unmet	و	that phone call or to contact folks after the
	clinical need that they're concerned about drug		meeting request. And I will tell you, just from
	development in a certain space, and they may not		phone calls that I have made, people are always
	even use those terms; or they're concerned about		surprised when they get a call from us. They're
13	side effects; or they want to know why aren't there	13	shocked as if somehow we were unplanning to do
	drugs for lupus. Why aren't there drugs for a		anything.
	certain neurologic disease? In many ways, we're	15	But our goal is to call people. Everything
16	responding to folks, and there are many in the rare	16	doesn't always have to be these long emails. And
17	disease community that have this desire to impact	17	what we have in the agenda that we ask people, and
18	the lives of their loved ones.	18	what I'm pushing folks on my team, is what is the
19	So there is no set agenda of what people	19	ask. So when we call you, I really want to know
20	have to talk about to us, and in many ways, we	20	what do you want to meet about, and we push even
21	can't tell you what you should or shouldn't talk	21	more in terms of what do you want the FDA to do as
22	about. We can tell you what we can't talk about;	22	part of this meeting?
	Page 42		Page 44
1	for instance, if a drug's currently under review.	1	So that really dictates what kind of meeting
	But we really want to encourage that dialogue.	2	is it. Is it simply that you want to make us aware
3	When we talk about how do we measure what's	3	of the severity of the disease and what's on
4	clinically meaningful to patients, it's hard to do	4	people's minds? Is it you don't feel there are
5	that unless you actually engage with patients. And	5	right endpoints; you're confused about certain
6	Dr. Woodcock often talks about that patients are	6	information? And I will tell you, all the requests
7	experts in their own disease, and you may have	7	that have come in so far, our goal is really to
8	heard her say that. So in order to do that, we	8	have a low bar for meetings, meaning we're trying
9	have to engage with patients. And I'm particularly	9	to encourage engagement.
10	using that term "engage" because it's a two-way	10	So right now we are having a lot of
11	communication. And historically, the information	11	in-person meetings, but we're also thinking about
12	on both sides has been pushed out. The agency	12	and interested in hearing people's viewpoints. And
13	pushes out information that they want their and	13	it might be kind of a D.C. type of thing where
14	advocacy groups push information back to us. And	14	everyone likes to have a physical meeting, and in
15	we really have to have engagement and two-way	15	many ways I think we can accomplish a lot by having
16	communication.		WebEx meetings or something of that nature, or
17	So part of that is you're right that		conference calls, because that also allows people
	folks don't even know the FDA or think about the		that may not have a lot of resources. Many of them
	FDA. And that's part of our goal, to try to	19	are caregivers and can't take two days of travel to
	educate folks more about the drug development	20	
	process, and Dr. Woodcock talked about that. But		trying to think through that as well.
	really, nothing's off the table in terms of what	22	But the default in a way is to have a

	Page 45		Page 47
1	meeting. What that means is open to what folks	1	instructor. And here is Selena. Namaste.
2	want to accomplish. I've been in the past on calls	2	Presentation - Selena Daniels
3	where Dr. Woodcock talks about people think we	3	DR. DANIELS: Thank you, Dr. Whyte, and I
4	do clinical trials. I've been on calls where	4	think the slides have transferred.
5	people think we make drugs, and we don't. So we	5	Good morning, everyone. My name is Selena
6	also don't want to waste people's time to come in	6	Daniels, and as Dr. Whyte mentioned, I am a team
7	for a meeting on an area where we don't have	7	lead on the clinical outcome assessment staff here
8	regulatory authority. But our goal is to we're	8	in CDER. And for those who aren't familiar with
9	setting up a system to have meetings, so our goal	9	our role, we provide advice to the Office of New
10	is to honor those requests for meetings.	10	Drug review divisions in CDER in matters pertaining
11	MR. MELTON: Okay. That will be our last	11	to the development of clinical outcome assessments
12	question. What I'll do briefly is give the URL	12	and related endpoints. Today, I will be discussing
13	again so you guys can have a chance to write it	13	how you can engage with FDA to collect patient
14	down. We should have it come back up right here.	14	experience data.
15	(Pause.)	15	The patient perspective is an important part
16	MR. MELTON: So what I will do, it's	16	of the medical product development process, and FDA
17	fda.gov/requestameetingondrugs. Thank you and have	17	values the use of patient input to help foster the
18	a good day.	18	development and availability of safe and effective
19	(Applause.)	19	drugs. An article was published in JAMA in 2015
20	DR. WHYTE: See, we need all the young	20	highlighting the importance of engaging patients
21	people to do our A/V stuff. If you only remember	21	across the spectrum of medical product development,
22	one thing today, if you remember	22	and some of the key take-aways from this article
	Page 46		Page 48
1	Page 46 fda.gov/requestameetingondrugs, that is progress,	1	Page 48 was that capturing the patients' voice in medical
	-	1	-
2	fda.gov/requestameetingondrugs, that is progress,	2	was that capturing the patients' voice in medical product development is important. And if you can
2 3	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective	2 3	was that capturing the patients' voice in medical product development is important. And if you can
2 3 4	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring	2 3 4	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the
2 3 4 5	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet	2 3 4 5	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to
2 3 4 5 6	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I	2 3 4 5 6	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical
2 3 4 5 6 7	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to	2 3 4 5 6	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their
2 3 4 5 6 7	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues.	2 3 4 5 6 7	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective.
2 3 4 5 6 7 8 9	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues.	2 3 4 5 6 7 8	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to
2 3 4 5 6 7 8 9	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little	2 3 4 5 6 7 8 9	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and
2 3 4 5 6 7 8 9 10 11	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of	2 3 4 5 6 7 8 9	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to
2 3 4 5 6 7 8 9 10 11 12	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know	2 3 4 5 6 7 8 9 10 11	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of
2 3 4 5 6 7 8 9 10 11 12 12	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and	2 3 4 5 6 7 8 9 10 11 12	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just
2 3 4 5 6 7 8 9 10 11 12 13 14	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and Research. So we work on drug issues. Our	2 3 4 5 6 7 8 9 10 11 12 13	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just
2 3 4 5 6 7 8 9 10 11 12 13 14 15	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and Research. So we work on drug issues. Our colleagues you'll hear from later might work on devices at the CDRH, or CBER, the Center for	2 3 4 5 6 7 8 9 10 11 12 13 14	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just threw out a couple of regulatory terms here, so I'm
2 3 4 5 6 7 8 9 10 11 12 13 14 15	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and Research. So we work on drug issues. Our colleagues you'll hear from later might work on devices at the CDRH, or CBER, the Center for Biologics, and we'll talk a little bit about that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just threw out a couple of regulatory terms here, so I'm going to define them real quick.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and Research. So we work on drug issues. Our colleagues you'll hear from later might work on devices at the CDRH, or CBER, the Center for Biologics, and we'll talk a little bit about that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just threw out a couple of regulatory terms here, so I'm going to define them real quick. Clinical benefit is a positive clinically
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and Research. So we work on drug issues. Our colleagues you'll hear from later might work on devices at the CDRH, or CBER, the Center for Biologics, and we'll talk a little bit about that. I'm going to introduce now Selena Daniels, and she's a team lead in the clinical outcome	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just threw out a couple of regulatory terms here, so I'm going to define them real quick. Clinical benefit is a positive clinically meaning effect on an intervention. In other words,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and Research. So we work on drug issues. Our colleagues you'll hear from later might work on devices at the CDRH, or CBER, the Center for Biologics, and we'll talk a little bit about that. I'm going to introduce now Selena Daniels, and she's a team lead in the clinical outcome	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just threw out a couple of regulatory terms here, so I'm going to define them real quick. Clinical benefit is a positive clinically meaning effect on an intervention. In other words, it's a positive effect on how patients feel,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	fda.gov/requestameetingondrugs, that is progress, and you will be on your way to being an effective advocate, because part of the challenge is figuring out how do you meet with us and who do you meet with, and we're going to help you do that. So I really want you to remember that. I want you to promote that. I want you to talk about that to your friends and colleagues. Now we're going to try to provide a little more about what we do here at CDER. And most of you have been at meetings, so you most likely know that CDER is the Center for Drug Evaluation and Research. So we work on drug issues. Our colleagues you'll hear from later might work on devices at the CDRH, or CBER, the Center for Biologics, and we'll talk a little bit about that. I'm going to introduce now Selena Daniels, and she's a team lead in the clinical outcome assessment staff in the Office of New Drugs. And	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	was that capturing the patients' voice in medical product development is important. And if you can successfully capture it, it can transform the patients' experience of health care. One way to capture the patients' voice is to include clinical outcomes that are meaningful to patients from their perspective. Our ultimate purpose here at FDA is to understand patients' perspectives on benefits and risks. When reviewing medical products, we look to see if the medical product has shown some type of clinical benefit to patients in the assess clinical outcome and from their perspective. I know I just threw out a couple of regulatory terms here, so I'm going to define them real quick. Clinical benefit is a positive clinically meaning effect on an intervention. In other words, it's a positive effect on how patients feel, function, or survive, and that can be how long a

22 FDA. And it tells me that Selena is also a yoga

22 also may a delay in deterioration of a certain

υ	ER and You: Keys to Effective Engagement		April 3, 20
	Page 49		Page 5
1	symptom or aspect of that condition. Clinical	1	patients' wants, their needs, and their preferences
	outcome is an outcome that describes or reflects	2	are represented in activities related to medical
3	how an individual feels, functions, or survives,	3	product development and evaluation.
4	and this can be assessed using clinical outcome	4	There are various different elements that
5	assessments. Typically, this could be a	5	could comprise patient experience. Again, as I
6	questionnaire or this could be a task.	6	mentioned, it could be disease symptoms. It can be
7	An important part of regulatory	7	the burden of living with a disease, the burden of
8	decision-making is to carefully assess patients'	8	managing the disease itself, impacts from the
9	views on benefits and risks. For those who aren't	9	disease or impacts from the treatment on activities
.0	familiar with the 21st Century Cures Act, this is	10	of daily living; patients' views on currently
1	an initiative to enhance the process of delivery		available treatment options as well as unmet
2	and development for disease treatments, and this	12	medical needs; and again, patient preferences.
3	act now includes new statutory provisions for	13	So how do you collect patient experience
4	patient-focused drug development. What this means	14	data? FDA recommends using qualitative methods,
	is that FDA is trying to incorporate the patient	15	quantitative methods, or mixed methods to collect
	perspective in a more systematic way for benefit-		robust and meaningful patient experience data.
7	risk assessment and taking into account patient	17	This table provides a high level overview of these
8	experience.	18	different types of methods that can be used, the
9	·	19	first being qualitative methods.
0	experience in a medical product development context	20	Qualitative methods just includes the act of
	essentially incorporates the patient's journey	21	just talking to patients. This could be using
2	throughout the course of their disease or	22	direct communication to explore or confirm the
	Page 50		Page 5
1	condition, which includes patient's views,	1	meaning of interpretation of a topic from the
	feelings, their needs, actions, preferences, and		participant's perspectives. An example of a
	interactions with respect to their disease and its		qualitative study could be having a focus group or
	treatment.		having interviews with patients where they're
- 5			describing their experience or their condition.
5			And the potential scientific objective for this
	collected by any persons that are intended to		type of study would be related to experiencing or
, 8			exploring the most important aspects of that
	the disease or condition, and this can include		disease.
	disease symptoms. This can include disease	10	Quantitative methods are characterized by
	impacts, experience with treatments, inputs which		quantifying the data or using numbers, and this
	outcomes are important to them, patient		generally entails statistical methods that are
	preferences, or anything that's just an important		summarizing this collected data. In regard to
	issue that's defined by patients.		collecting patient experience data, this could be
5			collected by the use of a tool such as a
	data? Of course, patients themselves. However,		questionnaire or a survey.
	there are instances where they may not be able to	10	An example of a quantitative study may be
	communicate this, and in those instances, it can be		
			just surveying the patient's experience using a
	informed by input from patient partners and		questionnaire, and that questionnaire has a closed
	clinicians. A patient partner may be an individual		set of questions where patients are selecting
	patient, a caregiver, or a patient advocacy group		response options most suitable for their response.
2	that engages other stakeholders to ensure that the	22	And it creates a score, which is numerical data.

	Page 53		Page 55
1	The potential scientific objective for that method	1	To submit patient experience data, there are
	could be related to developing a symptom		various pathways that exist. FDA will be issuing
	questionnaire from those questions.	3	
4	Lastly, mixed methods is basically using		tuned. Again, in regards to the content and the
			formats in terms of how to submit that data, it
	both qualitative and quantitative data. And an		
	example of a mixed-methods study could be surveying		also depends on the purpose and the type of data
	a group of patients with a questionnaire, but then	.7	that is being submitted. From a regulatory
	also tagging along an interview component just so	8	perspective, patient experience data is used to
	patients can be able to further describe their		inform clinical trial design, clinical trial
	responses with more detail just in case the		outcomes, trial endpoint development and selection,
11	response options didn't allow them to do so.		but it's also used in our regulatory reviews, which
12	A potential scientific objective could be		includes benefit-risk assessments.
	related to determining whether maybe symptom	13	To summarize everything, patient engagement
	severity or symptom frequency is more important to		is critical throughout the medical product
15	them by looking up both the scores that are coming		development process, and the way you can best help
16	from the questionnaire as well as the patient	16	FDA is by using scientifically sound methods to
17	quotes that are coming from the interview portion.	17	collect robust, meaningful, sufficiently
18	So overall, each of these methods can allow one to	18	representative patient input to inform medical
19	understand patients' experiences, their	19	product development and regulatory decision-making.
20	perspectives, and feelings.	20	That concludes my presentation, and I will
21	The importance of collecting patient	21	open it up to questions and answers. There are
22	experience data can inform medical product	22	mics, and I know there are runners around as well.
			_
	Page 54		Page 56
1	Page 54 development and enhance regulatory decision-making	1	
	-	1	Questions and Answers
2	development and enhance regulatory decision-making	2	Questions and Answers
2 3	development and enhance regulatory decision-making to address patient needs because, as we know, which	2	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient
2 3 4	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their	2 3 4	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient
2 3 4 5	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end	2 3 4 5	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for
2 3 4 5	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical	2 3 4 5 6	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical
2 3 4 5 6 7	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete.	2 3 4 5 6 7	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the
2 3 4 5 6 7 8	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient	2 3 4 5 6 7 8	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm
2 3 4 5 6 7 8 9	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the	2 3 4 5 6 7 8	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your
2 3 4 5 6 7 8 9	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does	2 3 4 5 6 7 8 9	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your
2 3 4 5 7 8 9 10 11	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if	2 3 4 5 6 7 8 9 10	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the
2 3 4 5 6 7 8 9 10 11 12	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before	2 3 4 5 6 7 8 9 10 11 12	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space
2 3 4 5 6 7 8 9 10 11 12	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient	2 3 4 5 6 7 8 9 10 11 12 13	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and
2 3 4 5 6 7 8 9 10 11 12 13 14	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Anyone can collect and submit patient	2 3 4 5 6 7 8 9 10 11 12 13 14	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in
2 3 4 5 6 7 8 9 10 11 12 13 14 15	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Anyone can collect and submit patient experience data. This includes patients. This	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in their own environments so important to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Mayone can collect and submit patient experience data. This includes patients. This includes family members or caregivers of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in their own environments so important to the endpoints that we're trying to develop that they
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Mayone can collect and submit patient experience data. This includes patients. This includes family members or caregivers of the patients; patient advocacy organizations; disease	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in their own environments so important to the endpoints that we're trying to develop that they would provide technologies that would be useful for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Mayone can collect and submit patient experience data. This includes patients. This includes family members or caregivers of the patients; patient advocacy organizations; disease research foundations; researchers; medical product	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in their own environments so important to the endpoints that we're trying to develop that they would provide technologies that would be useful for the regulator.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Mayone can collect and submit patient experience data. This includes patients. This includes family members or caregivers of the patients; patient advocacy organizations; disease research foundations; researchers; medical product manufacturers; and you may need to collaborate with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in their own environments so important to the endpoints that we're trying to develop that they would provide technologies that would be useful for the regulator.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Mayone can collect and submit patient experience data. This includes patients. This includes family members or caregivers of the patients; patient advocacy organizations; disease research foundations; researchers; medical product manufacturers; and you may need to collaborate with subject matter experts in this field to help you,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in their own environments so important to the endpoints that we're trying to develop that they would provide technologies that would be useful for the regulator. DR. DANIELS: No, most definitely. We are having engagements with some of the individuals
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	development and enhance regulatory decision-making to address patient needs because, as we know, which was stated earlier, patients are experts in their own disease and condition, and they're the end users of these medical products once medical product development is complete. As far as timing on when to collect patient experience data, this can before and throughout the medical product development process. FDA does encourage pre-competitive collaboration, so even if you're not in an individual drug development before that stage, you can start collecting patient experience data. Mayone can collect and submit patient experience data. This includes patients. This includes family members or caregivers of the patients; patient advocacy organizations; disease research foundations; researchers; medical product manufacturers; and you may need to collaborate with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Questions and Answers MR. BARTEK: Thank you, Selena. Can I ask about I would just say so many of our patient groups are now looking at new technologies for collecting patient data before and during clinical research. I'm wondering to what extent the developers of these new technologies I'm thinking of wearables and carriables and so forth are collaborating with you and your office, and others of your colleagues here at the FDA, in advance, maybe in the pre-competitive space so that when they develop these technologies and the way they'll be used with our patients to see how they feel and function on a daily basis in their own environments so important to the endpoints that we're trying to develop that they would provide technologies that would be useful for the regulator.

	Page 57		Page 59
	come of those novel methods in the quidence that		to collect the data, but we do have a series of
	some of those novel methods in the guidance that		
	2 comes forth for submitting patient experience data.		patient-focused drug development guidances that are
			going to be coming forth after this as well that
4			will focus on how to elicit the most important
5	, ,		concepts from patients. And it might touch upon in
	5 That was very helpful. Do you have any published		terms of some of those things, factors that you
	guidance that details for again, I don't want to		mentioned as well. But this guidance coming out in
	3 use that word "non-professional," but I just think		June, the draft guidance, will be focusing mainly
	it's clear to make, that as patients, we're not		on the methods and how to create representative
	scientists. So is there any guidance that's		inputs of talking to the right patients.
	published that says what your criteria is as the	11	DR. HO: Thank you so much. This is Calvin Ho from the Tuberous Sclerosis Alliance. I was
	2 definition of a scientific study as opposed to a b non-acientific study?		
	B non-scientific study?		wondering if the June guidance will also be
14	5 5 5		addressing using patient registries as a source for
	be put forth this June, the draft guidance on		patient experience data.
	collecting patient experience data, is written	16	DR. DANIELS: The draft guidance will be
	v using plain language, so it will go into the		talking about different sources to use. Of course
	details of what are the best practices to do. But		that could be focus groups; it could be registries.
	again, we also are encouraging if you are a patient		So it will touch upon that as well as what types of
	or patient advocacy group to contact or collaborate		sources can be used to collect patient experience
	with these subject matter experts because they do		data. FEMALE AUDIENCE MEMBER: Hi there. I
22	2 have the expertise to help you create these studies	22	FEMALE AUDIENCE MEMBER: HI (here. 1
	Page 58		Page 60
1	Page 58 and use these methods to collect that data.	1	-
1	and use these methods to collect that data.		Page 60 represent a patient community that is not yet a formal group. It's a rare, loosely defined group
2	and use these methods to collect that data.	2	represent a patient community that is not yet a
2	and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]?	2 3	represent a patient community that is not yet a formal group. It's a rare, loosely defined group
2	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. 	2 3 4	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. 	2 3 4 5	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're 	2 3 4 5 6	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in 	2 3 4 5 6	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the 	2 3 4 5 6 7 8	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all?
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, 	2 3 4 5 6 7 8 9	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone
2 3 4 5 6 6 7 7 8 8 8 8 9 9 1 (and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, 	2 3 4 5 6 7 8 9	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that 	2 3 4 5 6 7 8 9	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense.
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient 	2 3 4 5 6 7 8 9 10	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? 	2 3 4 5 6 7 8 9 10 11 12	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session.
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? 	2 3 4 5 6 7 8 9 10 11 12 13 14	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session.
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? I know this is becoming a much bigger issue, 	2 3 4 5 6 7 8 9 10 11 12 13 14	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session. I think that was the last question. Thank
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? I know this is becoming a much bigger issue, and FDA has some guidances on physical design 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session. I think that was the last question. Thank you, guys. Have a great day.
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? I know this is becoming a much bigger issue, and FDA has some guidances on physical design characteristics, et cetera. Will your data 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session. I think that was the last question. Thank you, guys. Have a great day. (Applause.)
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? I know this is becoming a much bigger issue, and FDA has some guidances on physical design collection incorporate patient information on those 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session. I think that was the last question. Thank you, guys. Have a great day. (Applause.) DR. WHYTE: Thank you. One other point that Dr. Woodcock often
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? I know this is becoming a much bigger issue, and FDA has some guidances on physical design characteristics, et cetera. Will your data collection incorporate patient information on those kinds of things as well as more clinical type details? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session. I think that was the last question. Thank you, guys. Have a great day. (Applause.) DR. WHYTE: Thank you. One other point that Dr. Woodcock often talks about is when we're trying to collect
	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? I know this is becoming a much bigger issue, and FDA has some guidances on physical design characteristics, et cetera. Will your data collection incorporate patient information on those kinds of things as well as more clinical type 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session. I think that was the last question. Thank you, guys. Have a great day. (Applause.) DR. WHYTE: Thank you. One other point that Dr. Woodcock often talks about is when we're trying to collect
2 4 9 9 10 11 12 13 14 15 16 15 20 21	 and use these methods to collect that data. MALE AUDIENCE MEMBER: Is that the same guidance [inaudible - off mic]? DR. DANIELS: Yes. MR. BARTEK: Just a question. You're focusing on obviously clinical studies and stuff in your discussion. Will the guidance include, or the experience data that you're collecting include, things like how patients feel about size, shape, color, other kinds of physical attributes that sometimes can be a big issue from a patient perspective in terms of problems they have in taking the dose and that type of thing? I know this is becoming a much bigger issue, and FDA has some guidances on physical design characteristics, et cetera. Will your data collection incorporate patient information on those kinds of things as well as more clinical type details? DR. DANIELS: This first guidance on 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	represent a patient community that is not yet a formal group. It's a rare, loosely defined group of individuals. Is that kind of non-starter in terms of creating or pulling together patient experience data or the non-professional aspect of their community, does that make a difference at all? DR. DANIELS: No. Like I mentioned, anyone can collect data. I mean, we do encourage you to engage with us like if you want to know what the objective is and how to proceed, in that sense. You can do meeting requests as was mentioned in the previous session. I think that was the last question. Thank you, guys. Have a great day. (Applause.) DR. WHYTE: Thank you. One other point that Dr. Woodcock often talks about is when we're trying to collect information, there is a science to patient

	EK and 1 ou: Keys to Effective Engagement	April 3, 2	
	Page 61	Page	63
1	folks that FDA are trained in, and the social	1 if we skip through some stuff that maybe needs to	
2	sciences, which is very much collection of data,	2 be updated. Obviously, this is the FDA, so I have	
3	but that can be just as rigorous as the biologic	3 no disclosures.	
4	sciences. And sometimes when folks are thinking	4 As far as the rare diseases team, we're a	
5	about a survey, they go on the process, which is	5 small team that's located in the Office of New	
6	well intention, but then there's not the science	6 Drugs, the immediate office. Why are rare diseases	
7	behind it. Someone might put it up on their	7 important? Rare diseases as defined in the	
8	website and have the first 30 people come, and	8 regulation of the United States is any disease that	
9	that's useful information, but that may or may not	9 affects less than 200,000 people. This means in	
10	be effective in a regulatory process.	10 this country, we've only recognized probably about	
11	So that's why we want to have these meetings	11 7,000 rare diseases. And this number keeps	
12	and early on have that discussion about what you're	12 increasing year by year because as our	
	trying to do in terms of collecting information	13 understanding of disease gets better and genetics	
	because there really is a science behind it. We do	14 are improving, we're understanding some of these	
	have on the website.	15 things that we're calling common diseases actually	
16	fda.gov/requestameetingondrugs, those circumstances	16 have a genetic or very specific underlying	
	for which there are other types of meetings, such	17 etiology.	
	as the ones Selena talked about, but we can help	18 Now, even though we call these rare, they're	
	facilitate that for you.	19 affecting about 1 in 10 people in the United	
20	Now we're going to hear about the rare	20 States. Cumulatively, this means a fairly large	
21	disease program because as I referenced early on,	21 number of people in the United States are actually	
	many of the folks that we hear from are in the rare	22 affected by a rare disease.	
	Page 62	Page	64
1	disease community. I do want to recognize Larry	1 The challenges in drug development for rare	
	disease community. I do want to recognize Larry Bauer in the back who really has been a champion of	 The challenges in drug development for rare diseases is that primarily since these affect very 	
2			
2	Bauer in the back who really has been a champion of	2 diseases is that primarily since these affect very	
2 3 4	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy.	2 diseases is that primarily since these affect very3 few people, a natural history is often barely	
2 3 4 5	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized?	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 	
2 3 4 5 6	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy.Larry, could you stand up and be recognized?I know many folks know you. You really have done a	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 	
2 3 4 5 6	 Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing 	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 	
2 3 4 5 6 7	 Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. 	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 	
2 3 4 5 6 7 8 9	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.)	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 	
2 3 4 5 6 7 8 9	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 	
2 3 4 5 6 7 8 9 10 11	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 	
2 3 4 5 6 7 8 9 10 11	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 	
2 3 4 5 6 7 8 9 10 11	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 	
2 3 4 5 6 7 8 9 10 11 12 13	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs.	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs. Presentation - Lucas Kempf	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 14 heard earlier, since there is very little known 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs. Presentation - Lucas Kempf, the new acting	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 14 heard earlier, since there is very little known 15 about these diseases, it's very hard to know what 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs. Presentation - Lucas Kempf DR. KEMPF: I am Lucas Kempf, the new acting director for the rare diseases program. My fun	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 14 heard earlier, since there is very little known 15 about these diseases, it's very hard to know what 16 endpoints should be derived for these drug trials. 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs. Presentation - Lucas Kempf DR. KEMPF: I am Lucas Kempf, the new acting director for the rare diseases program. My fun fact is I spent the last week in a car with my	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 14 heard earlier, since there is very little known 15 about these diseases, it's very hard to know what 16 endpoints should be derived for these drug trials. 17 What are meaningful clinical outcomes in these 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs. Presentation - Lucas Kempf DR. KEMPF: I am Lucas Kempf, the new acting director for the rare diseases program. My fun fact is I spent the last week in a car with my children driving cross-country, and I found out	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 14 heard earlier, since there is very little known 15 about these diseases, it's very hard to know what 16 endpoints should be derived for these drug trials. 17 What are meaningful clinical outcomes in these 18 populations may not be well understood, and 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs. Presentation - Lucas Kempf DR. KEMPF: I am Lucas Kempf, the new acting director for the rare diseases program. My fun fact is I spent the last week in a car with my children driving cross-country, and I found out this morning that Kansas doesn't necessarily have	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 14 heard earlier, since there is very little known 15 about these diseases, it's very hard to know what 16 endpoints should be derived for these drug trials. 17 What are meaningful clinical outcomes in these 18 populations may not be well understood, and 19 biomarkers for the improvement in these settings 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Bauer in the back who really has been a champion of the rare disease program and rare disease advocacy. Larry, could you stand up and be recognized? I know many folks know you. You really have done a terrific job over many years in really addressing the issues of the rare disease community. (Applause.) DR. WHYTE: We're going to hear about the rare disease program right now, and I'm delighted to introduce Dr. Lucas Kempf, who is the acting associate director of the rare disease program in the Office of New Drugs. Presentation - Lucas Kempf DR. KEMPF: I am Lucas Kempf, the new acting director for the rare diseases program. My fun fact is I spent the last week in a car with my children driving cross-country, and I found out this morning that Kansas doesn't necessarily have the high speed internet to transfer my slides. So	 2 diseases is that primarily since these affect very 3 few people, a natural history is often barely 4 understood or characterized. These diseases 5 themselves tend to be serious, life threatening, 6 and lacking approved therapy. For us at CDER this 7 is important because there are very specific 8 regulatory programs that Congress has passed to 9 help develop drugs for serious life-threatening 10 diseases, and especially rare diseases. 11 The small population make it very difficult 12 to recruit and design these drug trials. The 13 disorders themselves may be diverse. And as we 14 heard earlier, since there is very little known 15 about these diseases, it's very hard to know what 16 endpoints should be derived for these drug trials. 17 What are meaningful clinical outcomes in these 18 populations may not be well understood, and 19 biomarkers for the improvement in these settings 20 may often be lacking. 	

CD	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 65		Page 67
1	don't know exactly how to do this. So frequently,	1	of patient-focused drug development group meetings
	these are completely novel programs, and nobody's		either here at the FDA or the ones that are being
	entirely sure what the outcome should be as opposed		externally led to help our community develop
	to something for like major depression, where there		meaningful data coming out of those meetings that
	are 16 or more different drugs that have already		will help inform the drug developers about the
	been approved. Also, about 50 percent of these		needs of the patient groups.
	disorders affect children, so there are special	7	Internally, we also help work on one of
	ethical considerations that you have to use when	8	these acronyms, the PRV program, priority review
	you're doing trials in children.		voucher, which is an incentive that Congress has
10	The rare diseases program, the reason we	10	given drug companies to develop drugs for rare
11	exist is to facilitate, support, and accelerate	11	pediatric diseases. We also are members sitting on
	drug development for these rare disorders. The		the Rare Disease Council within the FDA, and we
	ways that we do this is a series of different kinds		work with our external groups such as NORD. We
	of responsibilities and programs that we enact. We		have a cooperative agreement with them to help
	help develop CDER policies and procedures through	15	develop some of these registries that develop the
	guidance developments and interactions with the		information that we were discussing earlier.
	senior staff.	17	We're also charged with working
18	We help develop good science in the areas of	18	collaboratively with our stakeholders. We work
19	rare disease, so we develop a database of all the	19	with the NIH on a joint task force. We work with
	new drugs that are being developed to help inform	20	their rare disease annual meeting and work with
	the agency's understanding of what we need to do to	21	TRNDs and NCATS to help them with their natural
	help develop these sort of drugs. We also develop	22	history study initiative. Also with the patient
	Page 66		Page 68
1	workshops to elicit external device to inform our	1	groups, we work in these face-to-face meetings that
2	internal thought processes about ways things should	2	PASE, P-A-S or OHCA helped set up.
3	be done.	3	We give presentations to the stakeholder
4	An example is this. We recently had a	4	groups when they have meetings to help them go
5	workshop on rare disease trial designs, which is	5	through some of the regulatory hurdles that they
6	fairly successful. Several hundred	6	may be encountering as they partner with drug
7	biostatisticians all showed up to discuss the ways	7	companies for drug development. We help National
8	that you could design trials when you only have a	8	Organization for Rare Diseases have their annual
9			
	handful of patients and you can't necessarily use	9	meeting, review their program, and help set up
10	the standard statistics in that sort of fashion.	9 10	their poster sessions.
	the standard statistics in that sort of fashion. Internally what we do is we help educate our		their poster sessions. So why is this all important? If you just
10 11 12	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a	10	their poster sessions.
10 11 12	the standard statistics in that sort of fashion. Internally what we do is we help educate our	10 11	their poster sessions. So why is this all important? If you just
10 11 12 13 14	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small	10 11 12 13	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so
10 11 12 13 14 15	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they	10 11 12 13	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can
10 11 12 13 14 15 16	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they even approach that drug development program. So we	10 11 12 13 14	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can see, year by year, they're kind of going up in the
10 11 12 13 14 15 16 17	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they even approach that drug development program. So we run a 101 course for our new reviewers, and we also	10 11 12 13 14 15	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can
10 11 12 13 14 15 16 17 18	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they even approach that drug development program. So we run a 101 course for our new reviewers, and we also have an advanced study day-line course that we	10 11 12 13 14 15 16	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can see, year by year, they're kind of going up in the United States. Now, when you look at how many of these new
10 11 12 13 14 15 16 17 18	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they even approach that drug development program. So we run a 101 course for our new reviewers, and we also have an advanced study day-line course that we educate our staff yearly.	10 11 12 13 14 15 16 17	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can see, year by year, they're kind of going up in the United States. Now, when you look at how many of these new drugs are for rare diseases, and you look at year
10 11 12 13 14 15 16 17 18 19 20	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they even approach that drug development program. So we run a 101 course for our new reviewers, and we also have an advanced study day-line course that we educate our staff yearly. We also do external training. We give	10 11 12 13 14 15 16 17 18	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can see, year by year, they're kind of going up in the United States. Now, when you look at how many of these new drugs are for rare diseases, and you look at year to year, just looking at the last three years,
10 11 12 13 14 15 16 17 18 19 20 21	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they even approach that drug development program. So we run a 101 course for our new reviewers, and we also have an advanced study day-line course that we educate our staff yearly. We also do external training. We give presentations at national and international	10 11 12 13 14 15 16 17 18 19 20 21	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can see, year by year, they're kind of going up in the United States. Now, when you look at how many of these new drugs are for rare diseases, and you look at year to year, just looking at the last three years, about 40 percent of all new molecular entities that
10 11 12 13 14 15 16 17 18 19 20 21	the standard statistics in that sort of fashion. Internally what we do is we help educate our staff because a lot of the staff come in with not a lot of rare disease experience, and then suddenly they get an application that involves some small population of only a hundred people. How do they even approach that drug development program. So we run a 101 course for our new reviewers, and we also have an advanced study day-line course that we educate our staff yearly. We also do external training. We give	10 11 12 13 14 15 16 17 18 19 20 21	their poster sessions. So why is this all important? If you just look at drug development currently, this is a graph of new molecular entities. These are the brand new drugs. They've never been developed before, so there is this special category. And as you can see, year by year, they're kind of going up in the United States. Now, when you look at how many of these new drugs are for rare diseases, and you look at year to year, just looking at the last three years,

	Page 69		Page 71
1	rare diseases. This is a considerable part of	1	help coordinate in the advice that we're giving in
	current drug development.		the early IND phase. Also, when drugs are under
3	I'll just kind of skip by that. These		review, our reviewers also are now allowed to
	programs for rare diseases, when you look at that		collaborate with the EMA to understand the data
	40 percent these is our most recent updated		that they're receiving so that both sides of the
	numbers about 56 percent of those are first in		Atlantic are coming to you with similar
	class. These fast-track, breakthrough, and		conclusions, hopefully.
	priority reviews, those are accelerated programs	8	
	that involve more interaction with the staff. And		designs; determine how we're going to be flexible
	we're seeing that, at least in the United States,		on both programs; help try to define what the size
	72 percent in this last year were of rare disease		of these trials might need to be to determine the
	drug development was first done here in the United		safety for these populations; and then share
	States.		scientific evaluations of these products. So when
14	This is ever-increasing. In order to get a		we look over the course of the last year, some data
	rare disease drug designation, you send in an		on what we've been doing, we've had about a total
	application that tells the agency that you're		of 53 agenda items in the last year broken down
	developing your drug for a rare disease, and we		into informing each other, about a third; protocol
	chart this. As you can see, the number of		assistance; and then actual product discussions are
	designations and requests that are coming in are		things that are in active review.
	accelerating over the next couple of years. So	20	When you just look at the active advice
	this is going to become a larger and larger portion	21	areas, a lot of it is in this protocol assistance
	of the agency's drug portfolio. We're going to		discussion. These are things that are in early
	Page 70		Dege 72
	Fage 70		Page 72
1	skip by that. This is the rare disease priority	1	development that we're going to see the fruits of
	-		-
2	skip by that. This is the rare disease priority	2	development that we're going to see the fruits of
2	skip by that. This is the rare disease priority review determinations for the pediatrics, so that	2 3	development that we're going to see the fruits of in the next couple years as we coordinate the drug
2 3 4	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up.	2 3 4	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at
2 3 4 5	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for	2 3 4 5	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about
2 3 4 5 6	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it	2 3 4 5 6	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we
2 3 4 5 6 7	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last	2 3 4 5 6 7	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding.
2 3 4 5 6 7 8	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease	2 3 4 5 6 7 8	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led
2 3 4 5 6 7 8 9	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and	2 3 4 5 6 7 8	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different
2 3 4 5 6 7 8 9	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we	2 3 4 5 7 8 9	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs.
2 3 4 5 7 8 9 10 11	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an	2 3 4 5 7 8 9 10 11	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually
2 3 4 5 6 7 8 9 10 11 12	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to	2 3 4 5 6 7 8 9 10 11 12	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent
2 3 4 5 6 7 8 9 10 11 12 13	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United	2 3 4 5 6 7 8 9 10 11 12 13	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action.
2 3 4 5 6 7 8 9 10 11 12 13 13	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater	2 3 4 5 6 7 8 9 10 11 12 13	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last
2 3 4 5 6 7 8 9 10 11 12 13 14 15	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater coordination between what you're being asked to do	2 3 4 5 6 7 8 9 10 11 12 13 14	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last year or so.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater coordination between what you're being asked to do in the EMA and the advice that you're getting of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last year or so. Doviously, as we heard before, request a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater coordination between what you're being asked to do in the EMA and the advice that you're getting of what you should do in the FDA.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last year or so. Obviously, as we heard before, request a meeting is the best way to put in your request to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater coordination between what you're being asked to do in the EMA and the advice that you're getting of what you should do in the FDA. So what we've started up in the last year is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last year or so. Obviously, as we heard before, request a meeting is the best way to put in your request to talk with the agency. With our program, we meet
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater coordination between what you're being asked to do in the EMA and the advice that you're getting of what you should do in the FDA. So what we've started up in the last year is monthly meetings with the EMA to help coordinate	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last year or so. Doviously, as we heard before, request a meeting is the best way to put in your request to talk with the agency. With our program, we meet frequently with patient groups and drug companies
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater coordination between what you're being asked to do in the EMA and the advice that you're getting of what you should do in the FDA. So what we've started up in the last year is monthly meetings with the EMA to help coordinate and collaborate with them in the advice that we're	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last year or so. Obviously, as we heard before, request a meeting is the best way to put in your request to talk with the agency. With our program, we meet frequently with patient groups and drug companies to help facilitate folks' interaction with the FDA
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	skip by that. This is the rare disease priority review determinations for the pediatrics, so that also is going up. Another important part of our program for those of you who have been here before and it seems 80 percent of you all have in the last years, we've developed an EMA-FDA rare disease cluster. This cluster is helping facilitate and accelerate drug development due to the fact that we recognize that rare disease drug development is an international program. It's almost impossible to do a drug development program just in the United States. Therefore, we need to have greater coordination between what you're being asked to do in the EMA and the advice that you're getting of what you should do in the FDA. So what we've started up in the last year is monthly meetings with the EMA to help coordinate and collaborate with them in the advice that we're giving in all phases of drug development, even in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	development that we're going to see the fruits of in the next couple years as we coordinate the drug development across the Atlantic. When you look at the outcomes of these medians so there is about 30 different item about 90 percent of those, we actually come to an alignment in our understanding. About 63 percent of the time those discussions led to actual actions being done on those different development programs. When you look at the ones that are actually being reviewed actively as NDAs, about 20 percent of the time, it actually changed regulatory action. So we're having an early effect just in this last year or so. Obviously, as we heard before, request a meeting is the best way to put in your request to talk with the agency. With our program, we meet frequently with patient groups and drug companies to help facilitate folks' interaction with the FDA to make things smooth. You can obviously directly

	ER and Tou. Reys to Effective Engagement		
	Page 73		Page 75
1	Questions and Answers	1	The second question is, based on the new
2	DR. HEALY: Thank you. Kevin Healy from	2	21st Century Cures Act, they've changed the
3	Roivant Sciences. A lot of great information and a	3	definition of rare disease. If I'm correct, from
4	lot of work you're doing there, but certainly the	4	4,000 to not more than 8,000. So my question is,
5	rare diseases cut across CDER and CBER. I wonder	5	are you thinking this definition change will cause
6	if you could explain a little bit about your	6	the volume of the CDER submissions on rare disease,
7	team you mentioned the placement within	7	and what's the effect that can be leading to this
8	CDER and how that can apply for development of	8	definition change? Thank you.
9	biologics, and even with the EMA-FDA cluster.	9	DR. KEMPF: I think you're referring to the
10	DR. KEMPF: So biologics themselves fall	10	definition for humanitarian device exemption. That
11	into both CDER and CBER. We throw around these	11	didn't change the definition for drugs. The drug's
12	terms. An NDA is for a new drug application. A	12	definition is the same. What did change recently
13	BLA is for biological applications. A lot of the	13	is with the pediatric group review, is that it used
14	BLAs are actually done in CDER, so antibody	14	to say the majority of your patients had to be
15	products, small nucleotide RNAs, those sort of	15	pediatrics, or that was being interpreted as over
16	things, all fall in CDER. But we do coordinate	16	50 percent.
17	with them.	17	There is some realization that that was
18	CBER itself has a group of rare disease	18	leaving out some very important groups, so they
19	professionals. It's not quite as organized as a	19	changed the definition to say that the serious and
20	program itself like we are, but the council that we	20	life-threatening aspect of the disease has to
21	meet, CBER is on that. CDRH is on that. We're on	21	primarily affect pediatrics because if you look
22	that. The Office of Orphan Products is also on	22	epidemiologically, you could see a small population
	Page 74		Page 76
1	that. So we all meet together to make sure that we	1	of patients who are children and may pass away, but
	-		-
2	that. So we all meet together to make sure that we	2	of patients who are children and may pass away, but
2 3	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational	2 3	of patients who are children and may pass away, but then a less affected group may continue living.
2 3 4	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational	2 3 4	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher,
2 3 4	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define	2 3 4	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small
2 3 4 5 6	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us.	2 3 4 5 6	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small
2 3 4 5 6 7 8	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from	2 3 4 5 6 7	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially.
2 3 4 5 6 7 8 9	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it	2 3 4 5 6 7	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress
2 3 4 5 7 8 9 10	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk	2 3 4 5 6 7 8 9	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you.
2 3 4 5 7 8 9 10	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda.	2 3 4 5 6 7 8 9	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions?
2 3 4 5 7 8 9 10	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions?	2 3 4 5 6 7 8 9 10 11 12	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.)
2 3 4 5 6 7 8 9 10 11 12 13	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is	2 3 4 5 6 7 8 9 10 11 12 13	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you.
2 3 4 5 6 7 8 9 10 11 12 13 14	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's	2 3 4 5 6 7 8 9 10 11 12 13 14	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in	2 3 4 5 6 7 8 9 10 11 12 13 14	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in the device review, they have HD, called	2 3 4 5 6 7 8 9 10 11 12 13 14	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going to test your knowledge, so get out your clickers.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in the device review, they have HD, called humanitarian device exemption. Usually, the	2 3 4 5 6 7 8 9 10 11 12 13 14	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going to test your knowledge, so get out your clickers. And we're going to have Jamie Bishop, our program
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in the device review, they have HD, called humanitarian device exemption. Usually, the patient has less than 4,000, but that's before	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going to test your knowledge, so get out your clickers. And we're going to have Jamie Bishop, our program manager, come to the front. And her fun fact,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in the device review, they have HD, called humanitarian device exemption. Usually, the patient has less than 4,000, but that's before definition. So they're only looking for more	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going to test your knowledge, so get out your clickers. And we're going to have Jamie Bishop, our program manager, come to the front. And her fun fact, which is very hurtful for someone who worked at
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in the device review, they have HD, called humanitarian device exemption. Usually, the patient has less than 4,000, but that's before definition. So they're only looking for more safety, not the effectiveness or efficacy. I was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going to test your knowledge, so get out your clickers. And we're going to have Jamie Bishop, our program manager, come to the front. And her fun fact, which is very hurtful for someone who worked at Discovery Channel for a decade is she says she
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in the device review, they have HD, called humanitarian device exemption. Usually, the patient has less than 4,000, but that's before definition. So they're only looking for more safety, not the effectiveness or efficacy. I was wondering for the drug review, do you assess both	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going to test your knowledge, so get out your clickers. And we're going to have Jamie Bishop, our program manager, come to the front. And her fun fact, which is very hurtful for someone who worked at Discovery Channel for a decade is she says she doesn't watch television.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that. So we all meet together to make sure that we coordinate. CBER is also part of our educational program, so when we develop our educational internal meetings, they have members to help define that agenda with us. So while we have the defined program, we're always working collaboratively. Actually, some of the EMA cluster meetings, we bring in folks from CBER because the EMA doesn't necessarily break it up the same way. They just say we want to talk about this product, so we put it on the agenda. Do I have any other questions? DR. LUO: Hi, Dr. Kempf. My name is Michelle Luo. I'm from the Office of Women's Health. I think I have two questions. First, in the device review, they have HD, called humanitarian device exemption. Usually, the patient has less than 4,000, but that's before definition. So they're only looking for more safety, not the effectiveness or efficacy. I was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	of patients who are children and may pass away, but then a less affected group may continue living. And then the general population would be higher, though the serious aspect that you're trying to develop your drug for could be affecting this small group, and then they wouldn't get the pediatric review voucher, which wasn't the intent of Congress initially. Did that answer all your question? Thank you. Are there any other questions? (No response.) DR. KEMPF: Thank you. (Applause.) DR. WHYTE: Thank you. And now we're going to test your knowledge, so get out your clickers. And we're going to have Jamie Bishop, our program manager, come to the front. And her fun fact, which is very hurtful for someone who worked at Discovery Channel for a decade is she says she doesn't watch television.

	EK and 1 ou: Keys to Effective Engagement	April 5	
	Page 77	Pa	ge 79
1	Audience Response Questions - Jamie Bishop	1 fda.govrequestameetingondrugs and submit a simpl	е
2	MS. BISHOP: Good morning, everyone. The	2 meeting request form; D, submit a letter of intent	
3	first question is, who develops and tests new drug	3 to patientfocus@fda.hhs.gov that indicates your	
4	products before they reach the public, A, FDA; B,	4 interest in conducting an externally-led,	
5	physicians and healthcare systems;	5 patient-focused drug development meeting; or E,	
6	C, pharmaceutical companies and other	6 both C and D.	
7	investigators; D, a consortium of international	7 (Audience responds.)	
8	regulatory authorities, including the European	8 MS. BISHOP: The correct answer is E. Thank	
9	Medicines Agency; and E; all of the above?	9 you.	
10	Please select the corresponding answer on	10 DR. WHYTE: I am glad no one chose the No	
11	your clicker.	11 Trial Left Behind Act.	
12	(Audience responds.)	12 With that, we are running a little ahead of	
13	MS. BISHOP: The correct answer is C, and 54	13 schedule, but we'll take a roughly 20-minute break.	
14	percent of you picked C.	14 We'll definitely start promptly by 11. You saw the	
15	The next question is about the rare diseases	15 question about stop by and ask if anyone's free for	
16	program at the FDA. The rare diseases program	16 lunch. I do want to remind people, if you want to	
17	within CDER, A, provides training to medical	17 eat lunch and you didn't pack your lunch, you	
18	reviewers on rare disease drug development; B,	18 should consider placing an order for lunch. I know	
19	collaborates with the National Institutes of Health	19 many of you folks have been here before, but in	
20	to accelerate drug development; C, works	20 theory, you cannot get to the cafeteria without an	
21	interactively with rate disease stakeholder	21 escort, so it may or may not happen; sometimes it	
22	organizations; D, works to speed the review and	22 does, sometimes it doesn't. I do not want anyone	
	D 7 0		
	Page 78	Pa	ge 80
1	$$Page\ 78$$ approval of drugs that treat rare diseases; and E,	Pa 1 to get cranky at 2:00 because they haven't eaten.	ge 80
	-		ge 80
	approval of drugs that treat rare diseases; and E,	1 to get cranky at 2:00 because they haven't eaten.	ge 80
2	approval of drugs that treat rare diseases; and E, all of the above.	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 	ge 80
2 3 4	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.)	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play 	ge 80
2 3 4	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So 	ge 80
2 3 4 5 6	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above.	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about 	ge 80
2 3 4 5 6	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out 	ge 80
2 3 4 5 6 7 8	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. 	ge 80
2 3 4 5 6 7 8 9	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank 	ge 80
2 3 4 5 6 7 8 9	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. 	ge 80
2 3 4 5 6 7 8 9 10 11 12	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to 	ge 80
2 3 4 5 6 7 8 9 10 11 12	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development.	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) 	ge 80
2 3 4 5 6 7 8 9 10 11 12	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.)	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of 	ge 80
2 3 4 5 6 7 8 9 10 11 12 13	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.) MS. BISHOP: And the correct response is D.	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of Gastroenterology and Inborn Error Products in the 	ge 80
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.) MS. BISHOP: And the correct response is D. My final question is, what can public	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of Gastroenterology and Inborn Error Products in the Office of New Drugs, and she's going to provide 	ge 80
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.) MS. BISHOP: And the correct response is D. My final question is, what can public stakeholders like you do to request to meet with	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of Gastroenterology and Inborn Error Products in the Office of New Drugs, and she's going to provide insight into the needs of the CDER drug review 	ge 80
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.) MS. BISHOP: And the correct response is D. My final question is, what can public stakeholders like you do to request to meet with the experts from the FDA Center for Drug Evaluation	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of Gastroenterology and Inborn Error Products in the Office of New Drugs, and she's going to provide insight into the needs of the CDER drug review divisions. And a fun fact about Elizabeth is that 	ge 80
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.) MS. BISHOP: And the correct response is D. My final question is, what can public stakeholders like you do to request to meet with the experts from the FDA Center for Drug Evaluation and Research? A, nothing, you're out of luck; B,	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of Gastroenterology and Inborn Error Products in the Office of New Drugs, and she's going to provide insight into the needs of the CDER drug review divisions. And a fun fact about Elizabeth is that 	ge 80
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.) MS. BISHOP: And the correct response is D. My final question is, what can public stakeholders like you do to request to meet with the experts from the FDA Center for Drug Evaluation and Research? A, nothing, you're out of luck; B, stop by the White Oak campus uninvited and ask FDA	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of Gastroenterology and Inborn Error Products in the Office of New Drugs, and she's going to provide insight into the needs of the CDER drug review divisions. And a fun fact about Elizabeth is that she has worked on four continents and traveled to six, and has competed in multiple triathlons. 	ge 80
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	approval of drugs that treat rare diseases; and E, all of the above. (Audience responds.) MS. BISHOP: The correct answer is E, all of the above. The third question is, what initiatives did the FDA launch in 2013 to gain patient perspectives on specific diseases and their treatments through a series of patient meetings to better inform the drug review process? A, Clear Path Initiative; B, Pharm More Information Campaign; C, No Trial Left Behind; and D, the patient-focused drug development. (Audience responds.) MS. BISHOP: And the correct response is D. My final question is, what can public stakeholders like you do to request to meet with the experts from the FDA Center for Drug Evaluation and Research? A, nothing, you're out of luck; B,	 to get cranky at 2:00 because they haven't eaten. So get a plan in place for the next 20 minutes. And after lunch, we are going to play Jeopardy, and we're going to divide into teams. So socialize among yourselves and start to think about who your team will be, and then you can tweet out that you won Jeopardy, FDA Jeopardy at FDA. So see you again in about 20 minutes. Thank you. (Whereupon, at 10:37 a.m., a recess was taken.) DR. WHYTE: At this time, I'd like to welcome Dr. Elizabeth Hart up to the podium. Dr. Hart is a medical officer in the Division of Gastroenterology and Inborn Error Products in the Office of New Drugs, and she's going to provide insight into the needs of the CDER drug review divisions. And a fun fact about Elizabeth is that 	ge 80

	ER and You: Keys to Effective Engagement		
	Page 81		Page 83
1	DR. HART: No, that's the only one.	1	related to understanding the disease and how to
2	DR. WHYTE: All right. Thank you.	2	measure important outcomes. And there's also a
3	Presentation - Elizabeth Hart	3	role for all of you there as well.
4	DR. HART: Thank you for having me. Good	4	After a drug has an IND, it goes through the
5	morning, and welcome to everyone. My name is	5	clinical development process. There are phase 1
	Elizabeth Hart, and as he said, I am a medical		studies to determine safety and tolerability; then
	officer in the Division of Gastroenterology and		there are phase 2 studies, which are dose ranging,
	Inborn Error Products within the Office of New	8	
9	Drugs, within the Center for Drug Evaluation and	9	considered to be the pivotal safety and efficacy
	Research. This morning I'm going to talk about the		studies at which point an NDA for a new drug
	needs of the CDER review division, specifically a		application or a BLA for a biologic license
	little bit about what we do, the regulations behind		application can be submitted, is evaluated and
	what we do, and then where are there opportunities		reviewed, and then there is continued evaluation in
	for patients and patient advocates to get involved.	14	the postmarketing setting.
	I have no disclosures.	15	That's the brief process. There are
16	The primary work of the CDER review	16	regulations that determine all of these.
17	divisions is to evaluate the efficacy and safety of	17	Specifically, the 1962 drug amendments to the Food,
	new drug applications by sponsors. We don't	18	Drug, and Cosmetic Act requires the establishment
	determine the priorities. We don't determine which	19	of effectiveness of the drugs as a prerequisite to
	drugs are being evaluated for different diseases,		marketing approval. That effectiveness is further
	but whatever comes in we evaluate. So we can't		defined as substantial evidence, and substantial
	prioritize. That's up to sponsors, as you got in		evidence consists of adequate and well-controlled
			·
	Page 82		Page 84
	-		
1	the questions.	1	investigations performed by qualified individuals.
1			-
2	the questions.	2	investigations performed by qualified individuals.
2 3	the questions. The drug evaluation process is very	2 3	investigations performed by qualified individuals. And then the results have to be determined to
2 3 4	the questions. The drug evaluation process is very important to our shared goals of having safe and	2 3 4	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on
2 3 4 5	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to	2 3 4 5	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly
2 3 4 5 6	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these	2 3 4 5 6	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug
2 3 4 5 6 7	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are	2 3 4 5 6 7	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented
2 3 4 5 6 7 8	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to	2 3 4 5 6 7	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed,
2 3 4 5 6 7 8 9	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we	2 3 4 5 6 7 8 9	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or
2 3 4 5 6 7 8 9	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from	2 3 4 5 6 7 8 9	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations.
2 3 4 5 6 7 8 9 10 11	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue	2 3 4 5 7 8 9 10 11	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all.
2 3 4 5 6 7 8 9 10 11	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess	2 3 4 5 7 8 9 10 11	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these
2 3 4 5 6 7 8 9 10 11 12 13	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety.	2 3 4 5 6 7 8 9 10 11 12 13	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these
2 3 4 5 6 7 8 9 10 11 12 13 14	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. A little bit about the drug development	2 3 4 5 6 7 8 9 10 11 12 13 14	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's
2 3 4 5 6 7 8 9 10 11 12 13 14	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. A little bit about the drug development process. Typically people think of it starting at	2 3 4 5 6 7 8 9 10 11 12 13 14	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's important to distinguish the effect of a drug from
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. A little bit about the drug development process. Typically people think of it starting at the IND phase, which is when an investigational new	2 3 4 5 6 7 8 9 10 11 12 13 14 15	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's important to distinguish the effect of a drug from other influences, including spontaneous change, placebo effect, and biased observations. An
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. A little bit about the drug development process. Typically people think of it starting at the IND phase, which is when an investigational new drug is being evaluated for use in humans in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's important to distinguish the effect of a drug from other influences, including spontaneous change, placebo effect, and biased observations. An
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. A little bit about the drug development process. Typically people think of it starting at the IND phase, which is when an investigational new drug is being evaluated for use in humans in the United States. However, there's actually a huge	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's important to distinguish the effect of a drug from other influences, including spontaneous change, placebo effect, and biased observations. An adequate and well-controlled study must have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. A little bit about the drug development process. Typically people think of it starting at the IND phase, which is when an investigational new drug is being evaluated for use in humans in the United States. However, there's actually a huge amount of work that happens before a drug ever	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's important to distinguish the effect of a drug from other influences, including spontaneous change, placebo effect, and biased observations. An adequate and well-controlled study must have multiple characteristics. I want to highlight just
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. A little bit about the drug development process. Typically people think of it starting at the IND phase, which is when an investigational new drug is being evaluated for use in humans in the United States. However, there's actually a huge amount of work that happens before a drug ever reaches that point. There are issues with the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's important to distinguish the effect of a drug from other influences, including spontaneous change, placebo effect, and biased observations. An adequate and well-controlled study must have multiple characteristics. I want to highlight just a few of them.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the questions. The drug evaluation process is very important to our shared goals of having safe and effective new therapies for patients in need and to do that review as quickly as possible so that these new drugs can be marketed and available if they are determined to be safe and effective. In order to aid sponsors in the drug development process, we are involved, and are willing to be involved from the early stages of drug development, and continue to be involved postmarketing to further assess safety. M little bit about the drug development process. Typically people think of it starting at the IND phase, which is when an investigational new drug is being evaluated for use in humans in the United States. However, there's actually a huge amount of work that happens before a drug ever reaches that point. There are issues with the discovery and the nonclinical research. But also,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	investigations performed by qualified individuals. And then the results have to be determined to evaluate the effectiveness of the drug involved on the basis of which it could fairly and responsibly be conducted, that such experts that the drug will have the effect it purports and is represented to have under the conditions of use prescribed, recommended, or suggested in the labeling or proposed labeling thereof. A lot of regulations. I have not memorized them all. Let me talk a little bit more about the adequate and well-controlled studies because these are the hallmark of moving a drug to market. It's important to distinguish the effect of a drug from other influences, including spontaneous change, placebo effect, and biased observations. An adequate and well-controlled study must have multiple characteristics. I want to highlight just a few of them.

	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 2018
	Page 85		Page 87
1	practice appropriation selection of subjects;	1	instruments, all need to be figured out for each of
2	and well defined and reliable methods of assessing	2	these diseases.
3	that response, as well as adequate measures to	3	It's not easy, but it's doable. And as you
4	minimize bias and perspectively planned analysis	4	can see from the previous examples, there are
5	with rigor.	5	multiple new molecular entities that have been
6	Once these studies are performed, how do we	6	recently approved for rare diseases. But to
7	determine clinical benefit? And that is also	7	develop more of them, where do we start? We
8	defined for us. Treatment benefit occurs when a	8	actually start with the end in mind. This is a
9	drug positively affects how a patient feels,	9	picture from Namibia, one of those countries I
10	functions, or survives, as discussed previously by	10	travel to, and it's really important to recognize
11	Dr. Daniels. But these are really important points	11	that the path isn't always smooth or easy, but it
12	because it gets to things that are important to	12	is possible. So think about what is going to be
13	patients. That clinical effect must be clinically	13	clinically meaningful and evidence of benefit, and
14	meaningful in the context of the given disease. So	14	then how do you design an adequate and
15	we're not talking about just statistical change.	15	well-controlled trial to measure that.
16	We're talking about clinically meaningful change to	16	What can patient and patient advocates do to
17	outcomes that are important to patients.	17	facilitate drug development? There are certain
18	This all sounds very straightforward on	18	steps irrespective of what industry and different
19	paper, but the challenges come in practice. These	19	sponsors are doing to develop drugs that apply to
20	challenges are amplified, as Dr. Kempf said, when	20	disease-specific populations. This includes
21	it comes to rare diseases. First of all, with	21	understanding the disease by performing natural
22	rare diseases, we're dealing with small	22	history studies, which I will discuss in more
22			
22	Page 86		Page 88
	Page 86 populations, which means even more so there are	1	Page 88 detail; provide the patient experience data, which
1			-
1	populations, which means even more so there are	2	detail; provide the patient experience data, which
1 2 3	populations, which means even more so there are limited opportunities for study and replication.	2 3	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and
1 2 3	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare	2 3 4	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those
1 2 3 4	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the	2 3 4 5	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods;
1 2 3 4 5 6	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the	2 3 4 5	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage
1 2 3 4 5 6	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small	2 3 4 5 6 7	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation.
1 2 3 4 5 6 7 8	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small	2 3 4 5 6 7 8	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies.
1 2 3 4 5 6 7 8 9	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want	2 3 4 5 6 7 8 9	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed
1 2 3 4 5 6 7 8 9	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by	2 3 4 5 7 8 9	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting
1 2 3 4 5 6 7 8 9 10 11	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that	2 3 4 5 7 8 9 10 11	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early
1 2 3 4 5 6 7 8 9 10 11	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based	2 3 4 5 6 7 8 9 10 11 12	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then
1 2 3 4 5 6 7 8 9 10 11 12 13	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population.	2 3 4 5 6 7 8 9 10 11 12	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable
1 2 3 4 5 6 7 8 9 10 11 12 13 14	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population. There are problems that sometimes we just	2 3 4 5 6 7 8 9 10 11 12 13 14	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable disability or death.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population. There are problems that sometimes we just don't even understand the disease manifestations,	2 3 4 5 6 7 8 9 10 11 12 13 14	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable disability or death. It's really important that these studies
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population. There are problems that sometimes we just don't even understand the disease manifestations, so making sure that the drug is targeting something that is meaningful and being able to distinguish	2 3 4 5 6 7 8 9 10 11 12 13 14 15	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable disability or death. It's really important that these studies capture as much of the population as possible and
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population. There are problems that sometimes we just don't even understand the disease manifestations, so making sure that the drug is targeting something that is meaningful and being able to distinguish	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable disability or death. It's really important that these studies capture as much of the population as possible and identify variables that correlate with disease
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population. There are problems that sometimes we just don't even understand the disease manifestations, so making sure that the drug is targeting something that is meaningful and being able to distinguish effects of the drug from effects of the disease.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable disability or death. It's really important that these studies capture as much of the population as possible and identify variables that correlate with disease progressions and outcomes in the absence of experimental therapies; and as things move more
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population. There are problems that sometimes we just don't even understand the disease manifestations, so making sure that the drug is targeting something that is meaningful and being able to distinguish effects of the drug from effects of the disease. With rare diseases, as we mentioned, there are a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable disability or death. It's really important that these studies capture as much of the population as possible and identify variables that correlate with disease progressions and outcomes in the absence of experimental therapies; and as things move more towards personalized medicine, understanding the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	populations, which means even more so there are limited opportunities for study and replication. Every patient always counts, but especially in rare diseases and in rare disease trials. There's an additional challenge of the disease being heterogeneous, so these differences can't always be dealt with because of the small samples based on statistical analysis. So you want to make sure that results aren't being driven by outliers and that you understand, again, that effect is coming from the drug versus it is based on change in the population. There are problems that sometimes we just don't even understand the disease manifestations, so making sure that the drug is targeting something that is meaningful and being able to distinguish effects of the drug from effects of the disease. With rare diseases, as we mentioned, there are a whole variety of them, and, unfortunately, many of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	detail; provide the patient experience data, which Dr. Daniels talked about earlier this morning; and then to also, if possible, validate those qualitative and quantitative assessment methods; and when trials are being performed, encourage participation. A little bit about natural history studies. These are comprehensive studies that are designed to characterize the disease over time, starting from the pre-symptomatic phase through the early symptomatic, through the late symptomatic, and then either to resolution of the disease to stable disability or death. It's really important that these studies capture as much of the population as possible and identify variables that correlate with disease progressions and outcomes in the absence of experimental therapies; and as things move more towards personalized medicine, understanding the

CD	od and Drug Administration - Public Workshop DER and You: Keys to Effective Engagement		April 3, 201
	Page 89		Page 91
1	prospectively or retrospectively.	1	quality of life is assessed, and patient experience
2			data can also determine and help to inform the
	studies when they're available? They really		risk-benefit assessment as far as patient
	provide the scientific framework for rigorous		preference for side effects, but in so many other
	investigation that allow us to understand disease		ways.
	outcomes and variability within disease	6	The assessment tools are really important.
	populations. This can inform trial design as far	-	For, again, rare diseases, we can sometimes take
	as endpoints, determining a homogeneous population		tools that have been developed from one population
	to study, and then can also help to determine what		and use them for another, but sometimes that's
	is a sample size to detect effect.		problematic. So designing and validating both
11			patient and observer and clinician-reported
	external controls for a pivotal study.		outcomes in the rare disease is really important,
	Particularly in rare diseases in which the disease		and that can be started early.
	course is highly predictable, the endpoints are	14	Then lastly, clinical trial participation.
	objective, and there can be a dramatic treatment		Patient participation is necessary for clinical
	difference, an external control can be used. But		trials and new drug development. Recently, we've
	in order for that to be realistic, the population	17	been hearing some concerns sometimes expressed as
	and the assessments in the treatment trial, the		far as enrollment in placebo-controlled trials, and
	experimental trial, and the natural history study		I just wanted to emphasize that each patient really
	have to be equivalent and comparable.	19	needs to evaluate any clinical trial and make a
			determination for themselves whether it's something
21	-		-
22	rethinking that progression from IND to BLA, and I	22	that that individual wants to participate in. But
	Page 90		Page 92
1	think it's really set on the foundation on planning	1	in order to advance science and develop new drugs,
2	and natural history studies, and understanding the	2	the information that can be gleaned from a
3	disease, particularly in rare diseases, and what	3	controlled trial is really important and will often
4	effects and tools can be used. I offer this as a	4	give us the information about whether or not a drug
5	new thought of how to think of the regulatory	5	is effective sooner than other trial designs.
6	framework of rare disease, starting early with	6	My conclusions are the best access for
7	understanding the disease even before there is	7	patients to effective therapy is an approved drug.
8	potentially a specific compound for drug	8	Patient engagement and early entry into the
9	development so that once there are potential	9	development process is important to informing drug
10	compounds available, the framework has been done	10	development and regulatory decision-making. And
11	and a clinical trial can happen sooner and be	11	you can help the FDA by early engagement and use of
12	designed better.	12	scientifically sound methods to collect
13	The other thing, again, as Dr. Daniels		representative patient data for natural history
14	talked about this morning, is getting that patient	14	studies and endpoint selections and measurements.
	experience data to inform clinical endpoints to		·
	ensure that it's the bothersome signs and symptoms	16	(Applause.)
	associated with the disease that are assessed	17	Questions and Answers
18	rather than symptoms that might not be as common or	18	DR. HART: Any questions?
1	as problematic, so that if a drug is effective, it	19	MS. NIZAR: Yes.
19			DR. HART: Great.
	can be appropriately assessed on symptoms that	20	DR. HART. Gleal.
20	can be appropriately assessed on symptoms that matter. Then along those lines also ensure that	20	MS. NIZAR: Hi. My name is Neena. I'm from

	ER and You: Keys to Effective Engagement	1	April 3, 201
	Page 93		Page 95
1	founder. I had a question. Our disease population	1	Other questions?
2	has about eight patients across the world, so when	2	(No response.)
3	you're talking about a clinical trial for such a	3	DR. HART: Thank you.
4	population, what would the control group be?	4	(Applause.)
5	DR. HART: Yes. These are very much the	5	DR. WHYTE: In terms of biosimilars, Leah
6	challenges. Sometimes in that setting, we will use	6	Christl is the point person at the center on that
7	an external control group, so having that natural	7	topic, and if you have questions about
8	history, depending upon what it is and what the	8	interchangeability, we do have a lot of information
9	endpoints are, is a possibility. Sometimes there	9	on site. We have a continuing medical education
L0	can be a delayed start. There can be a comparison	10	program on biosimilars. We have specific language
L1	within individual comparison. It really depends	11	about interchangeability and what that means. You
L2	upon what the symptoms of the disease are, what the	12	can follow up directly with me after the meeting,
L3	heterogeneity of the disease is, and really what is	13	and I can put you into contact with Dr. Christl or
.4	that natural history, because that can inform	14	point you in the right way to the questions.
L5	potential clinical trial designs. But it is	15	I know even though sometimes we say there's
16	possible.	16	a lot of information on our website, and I did say
17	MS. KRUSE: I'm Caroline Kruse. I'm from	17	that, it can be hard to find, and it's not always
L8	the Platelet Disorder Support Association. I am	18	written in the best language. But biosimilars is a
	curious about biosimilars. It's my understanding	19	topic where we've gotten lots of questions, and we
	that the FDA has approved 9 biosimilars, 7 in 2017.	20	really do have a centralized process to help
21	Are there any concerns about long-term data,	21	address those issues, whether it's from the
22	interchangeability, labeling, and what role do you	22	perspective of a physician wanting to understand
	Page 94		Page 96
1	see biosimilars playing in the rare disease space?	1	more about biosimilars and they tend to be more
2	Thank you.		
		2	of specialty physicians, rheumatology, GI or
3	DR. HART: Yes, biosimilars have a different		of specialty physicians, rheumatology, GI or patient groups who might have a question as to what
	-	3	
4	DR. HART: Yes, biosimilars have a different	3 4	patient groups who might have a question as to what
4 5	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They	3 4 5	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with
4 5 6	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So	3 4 5	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and
4 5 6 7	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that	3 4 5 6 7	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability.
4 5 6 7	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to	3 4 5 6 7 8	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the
4 5 6 7 8 9	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though.	3 4 5 6 7 8	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's
4 5 7 8 9	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth	3 4 5 7 8 9 10	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process.
4 5 7 8 9 LO	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would	3 4 5 7 8 9 10 11	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all
4 5 6 7 8 9 10 11	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and	3 4 5 7 8 9 10 11 12	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the
4 5 6 7 8 9 10 11 12 13	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once	3 4 5 6 7 8 9 10 11 12 13	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that
4 5 6 7 8 9 10 11 12 13	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once that patient experience data is captured, what's	3 4 5 6 7 8 9 10 11 12 13 14	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that point early on when I said to you we want to hear
4 5 6 7 8 9 10 11 12 13	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once that patient experience data is captured, what's the process for getting it to the appropriate teams	3 4 5 6 7 8 9 10 11 12 13 14	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that point early on when I said to you we want to hear from you early on in terms of the drug development
4 5 6 7 8 9 10 11 12 13 14 15 16	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once that patient experience data is captured, what's the process for getting it to the appropriate teams that do the drug reviews?	3 4 5 6 7 8 9 10 11 12 13 14 15	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that point early on when I said to you we want to hear from you early on in terms of the drug development process.
4 5 6 7 8 9 10 11 12 13 14 15 16	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once that patient experience data is captured, what's the process for getting it to the appropriate teams that do the drug reviews? DR. HART: I wish Selena was still here to	3 4 5 6 7 8 9 10 11 12 13 14 15 16	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that point early on when I said to you we want to hear from you early on in terms of the drug development process. Today we're focused on the FDA, but
4 5 7 8 9 10 11 12 13 14 15 16 17	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once that patient experience data is captured, what's the process for getting it to the appropriate teams that do the drug reviews? DR. HART: I wish Selena was still here to answer that, but there are a couple of	3 4 5 7 8 9 10 11 12 13 14 15 16 17	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that point early on when I said to you we want to hear from you early on in terms of the drug development process. Today we're focused on the FDA, but remember, there's really a continuum of drug
4 5 7 8 9 10 11 12 13 14 15 16 17 18	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once that patient experience data is captured, what's the process for getting it to the appropriate teams that do the drug reviews? DR. HART: I wish Selena was still here to answer that, but there are a couple of different my understanding is that there are a	3 4 5 7 8 9 10 11 12 13 14 15 16 17 18	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that point early on when I said to you we want to hear from you early on in terms of the drug development process. Today we're focused on the FDA, but remember, there's really a continuum of drug development. And in many ways, the time for
4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DR. HART: Yes, biosimilars have a different pathway, as you alluded to, than new drugs. They are in between the ANDAs and the new drug. So there is a lot of potential and opportunity in that space. I am not the most appropriate person to speak about that space, though. MS. FOXWORTH: Hi. It's Phyllis Foxworth again. Selena this morning shared that there would be guidance around the patient experience data, and I was just wondering if you can expand on how once that patient experience data is captured, what's the process for getting it to the appropriate teams that do the drug reviews? DR. HART: I wish Selena was still here to answer that, but there are a couple of different my understanding is that there are a couple of different pathways set up to do that, to	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	patient groups who might have a question as to what a biosimilar is and conflating biosimilar with generic. So I'm happy to follow up on that and specifically the issue of interchangeability. In terms of also getting information to the review divisions, which is a great point, that's why we really need to have a coordinated process. And Selena and her team really are figuring out all those best strategies to get the information to the review division, but it also goes back to that point early on when I said to you we want to hear from you early on in terms of the drug development process. Today we're focused on the FDA, but remember, there's really a continuum of drug development. And in many ways, the time for patients to engage on drug development is not only

	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 2018
	Page 97		Page 99
1	talking to sponsors and working with sponsors in	1	Administration; C, Health Canada; D, Japan's
	terms of what those endpoints might be, or working		Pharmaceutical and Medical Device Agency; or E,
3	with the agency and trying to think through does	3	Australia's Therapeutic Goods Administration?
4	there need to be guidance on what those endpoints	4	(Audience responds.)
5	are to foster drug development.	5	MS. SEALS: Sixty-seven percent of the
6	So that's why I encourage you to talk often	6	audience answered correctly with B, U.S. Food and
7	and talk early to us, and we'll figure out for you	7	Drug Administration.
8	how to get that information to the review division.	8	Question 2, the FDA considers all of the
9	And what I often like to say and Dr. Woodcock	9	following factors during the drug approval process
10	has joked the agency is full of introverts, and now	10	except, A, biological markers; B, patient-reported
11	we're trying to create a system that relies upon	11	outcomes; C, company stock prices; or D, clinical
12	extroverts. And I guess I'm one of the few	12	outcomes?
13	extroverts and I'm trying to hire extroverts.	13	(Audience responds.)
14	But you also want to keep in mind the review	14	MS. SEALS: And of course the correct answer
15	divisions look at data, right? That's how they're	15	is C, to keep ourselves out of trouble.
16	going to make decisions. So how do we capture and	16	The next question, during a drug shortage,
17	package that experiential data in terms of a way	17	the FDA can, A, manufacture more drugs to meet
18	that reviewers can use? How do we get it into that	18	demand; B, allow drugs to be imported from other
19	regulatory framework? Patient engagement really is	19	countries; C, force a manufacturer to produce
20	an iterative process. I also want to say we're	20	drugs; or D, none of the above?
21	talking a lot about patients here, but remember,	21	(Audience responds.)
22	this is about all stakeholders who aren't sponsors	22	MS. SEALS: Wow. The actual correct answer
	Page 98		Page 100
1	to have this type of interaction with the agency.	1	is B, allow drugs to be imported from other
2	The sponsors already have lots of strategies and	2	countries. So there you learned something.
3	tools to interact with us.	3	The last question is, the FDA determines the
4	At this time, I'm going to turn to my	4	cost of drugs and whether insurance plans can cover
5	colleagues to find out whether we're going to	5	these medicines, A, true; B, false.
6	do okay. We are going to do the clickers, and	6	(Audience responds.)
7	we're going to have Portia Seals, who's on our team	7	MS. SEALS: And the correct answer is B,
8	at PASE, who tells me that she participated in the	8	false. Thank you.
9	Olympic ceremonies at the Atlanta games. I'm just	9	DR. WHYTE: I'm going to be honest. I'm a
10	going to leave it at that. She told me not to	10	little disappointed in those that did not say that
11	expand on it.	11	the U.S. Food and Drug Administration approves
12	MS. SEALS: The opening ceremony is not	12	drugs the fastest. And perhaps you're saying,

- 13 actually in the Olympics.
- 14 DR. WHYTE: Oh, participated in the opening 15 ceremony. See I made it bigger; she participated 16 in the Olympics. You kind of did; just the opening 17 ceremonies, but that's still pretty good.
- 18 Audience Response Questions - Portia Seals
- 19 MS. SEALS: Question number 1, among the
- 20 world's preeminent regulatory organizations, which
- 21 approves new drugs the fastest? A, European
- 22 Medicines Agency; B, U.S. Food and Drug
- One of the biggest challenges that we have

20 learn a few things about the FDA, and correct any

13 "Well, John, you should have parsed it more

14 carefully to say that, for the most part, the FDA

16 is the truth, and we have lots of references to

18 if you need it. But again, today really is

21 misinformation that's out there.

15 approves drugs fastest in the world," because that

17 prove that, including New England Journal articles,

19 designed to help folks understand our processes and

22

I (Food and Drug Administration - Public Workshop CDER and You: Keys to Effective Engagement		April 3, 2018
	Page 101		Page 103
	1 in talking to stakeholders and you're hopefully	1	probably also something you may not want to know,
	2 getting the theme that we're very interested in	2	and to really go into some of those issues around
	3 talking to stakeholders and engaging with	3	the limits of our ability to engage. So let's
	4 stakeholders. There are instances where even if we	4	start with CDER's mission.
	5 were to agree with what you're saying, there may be	5	CDER's mission is to promote and protect the
	6 instances where we cannot communicate to you what	6	public health by ensuring that safe and effective
	7 our understanding on the issue is because there may	7	drugs are available to Americans. This is a very
	8 be current regulatory actions planned, and we can't	8	succinct mission statement, but it encompasses a
	9 even tell you if we're planning regulatory action,	9	lot of activities. CDER routinely consults with
	10 which can be very frustrating for people because	10	American people in making its decisions about the
	11 you often will come and have an excellent	11	drugs that they use. It holds public meetings to
	12 presentation, and then you feel you're not really	12	incorporate export and consumer input into its
-	13 getting anything in return because we don't seem to	13	decisions. The center also announces many of its
	14 be responsive.	14	decisions in advance so that the members of the
-	15 You shouldn't view that as we're not	15	public, academia, industry, trade associations,
-	16 interested, or that we don't care, but there are	16	consumer groups, and professional societies can
	17 circumstances where we cannot necessarily indicate	17	comment and make suggestions before decisions
-	18 what is happening. And we do have to do a better	18	become final.
	19 job of more effectively communicating that to	19	In addition, CDER holds annual public
:	20 stakeholders so you don't leave with the impression	20	meetings with consumers and patient groups,
	21 that we don't care, we're not interested, or we	21	professional societies, and pharmaceutical trade
:	22 don't agree.	22	associations to obtain enhanced public input into
_	Page 102		Page 104
	1 Lieutenant Commander Sadhna Khatri, who	1	its planning and priority-setting practices. Over
	2 works with me and is a good friend and colleague,	2	the years, the policies have changed and laws have
	3 is going to help tell you what CDER can and cannot	3	become stronger, but the center's present and
	4 do by law; not what we don't want to do or want to	4	future mission remains constant. That is to ensure
	5 do, but again and this is a very important	5	that the benefits of drug products made available
	6 conversation, and Dr. Woodcock alluded to it, that	6	to the public outweigh all known risks.
	7 we often don't explain to stakeholders that there	7	Ultimately, patients are the focus of all CDER
	8 are these circumstances where we can't give you the	8	activities, and we need to engage with them
	9 information perhaps that you would like.	9	First, let's start with some of the things
:	10 Lieutenant Commander Khatri's fun fact is	10	you really want to know, and that's where the
:	11 that she participated at the White House with	11	opportunities for engagement are. This has changed
:	12 Indian dance, as part of an Indian festival. So	12	over the last decade since I have been involved
-	13 it's with great pleasure that I call to this podium	13	with the drug development here at FDA. Patient
-	14 Lieutenant Sadhna Khatri.	14	input is now playing an important and increasing
:	15 (Applause.)	15	role in development and regulation of medical
:		16	products. A large number of patient activities are
	5 / 5	17	1 0
-		18	You can see on the slide the multiple
	•	19	
			FDA. You heard early this morning my colleague,
	21 each and every one of you. My job this morning is	21	Chris Melton, mention about the external
1	a to tall your associately and but your state to be any lot		atal a la

22 to tell you something that you want to know but

CD	CDER and You: Keys to Effective Engagement April 3,				
	Page 105		Page 107		
1	professional affairs and stakeholder engagement	1	to consider. We carefully review those, and they		
2	staff has launched recently. There exists your	2	often have a lot of legalistic aspects to them.		
	opportunity to request meetings with CDER.	3	Finally, we do put out notices in the		
4	The next is the patient-focused drug	4	Federal Register so that the public can be aware of		
5	development meetings. This is turning out to be	5	some of the things we are doing such as the		
	perhaps the most effective and best way to bring to		guidances. We do carefully review all the		
7	us patients' understanding and experiences of the	7	comments, sometimes thousands of comments, that		
8	disease. We have speakers on today's agenda who	8	come to us from the Federal Register notices often		
9	will be talking about the patient-focused drug	9	from patients and patient advocacy organizations.		
10	development in detail, so I'm not going to go into	10	One of the most interesting developments for		
11	detail with that.	11	patient engagement has been in the development of		
12	Next, we have the advisory committee	12	guidances. The Duchenne muscular dystrophy		
13	meetings, and most of these advisory committee	13	community got together and put together a proposed		
14	meetings do have a patient representative assigned	14	guidance that they then submitted to the FDA, which		
15	to the AC meeting that's what we call it in	15	we then reviewed and used as the basis of our own		
16	short to present their point of view. Patient	16	guidance on the development of drugs for Duchenne		
17	representatives are selected to participate in an	17	muscular dystrophy.		
18	AC meeting, and this is an opportunity for public	18	We often receive lots of emails, letters,		
19	dialogue. Patient representatives are considered	19	and phone calls. Sometimes the advocacy		
20	government employees for the duration of the time	20	organizations seem to think that that is the most		
21	they are serving on the AC committee.	21	effective way, to bombard us with thousands of		
22	We also have public speaking sessions where	22	emails. While certainly it does get our attention,		
	Page 106		Page 108		
	Page 106		Page 108		
	many patients often take advantage and come and		I can tell you that it's probably not the most		
2	many patients often take advantage and come and speak, but they often get about five minutes to	2	I can tell you that it's probably not the most effective way to be able to get your opinion across		
2 3	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each.	2 3	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media.		
2 3 4	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or	2 3 4	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients		
2 3 4 5	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few	2 3 4	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions.		
2 3 4 5 6	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings	2 3 4 5 6	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena		
2 3 4 5 6 7	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to	2 3 4 5 6 7	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient		
2 3 4 5 6 7 8	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process.	2 3 4 5 6 7 8	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring		
2 3 4 5 6 7 8 9	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at	2 3 4 5 6 7 8 9	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on		
2 3 4 5 6 7 8 9 10	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National	2 3 4 5 6 7 8 9	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are		
2 3 4 5 7 8 9 10 11	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have	2 3 4 5 6 7 8 9 10 11	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We		
2 3 4 5 6 7 8 9 10 11 12	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage	2 3 4 5 6 7 8 9 10 11 12	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the		
2 3 4 5 6 7 8 9 10 11 12 13	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups	2 3 4 5 6 7 8 9 10 11 12 13	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular		
2 3 4 5 6 7 8 9 10 11 12 13 13	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and	2 3 4 5 6 7 8 9 10 11 12 13 14	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and		
2 3 4 5 6 7 8 9 10 11 12 13 14 15	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and we invite them here at FDA, and we schedule	2 3 4 5 6 7 8 9 10 11 12 13 14	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and diversity of opinions and varied perspectives both		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and we invite them here at FDA, and we schedule meetings with the review divisions where they come	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and diversity of opinions and varied perspectives both in terms of risk tolerance and potential benefits,		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and we invite them here at FDA, and we schedule meetings with the review divisions where they come and express their point of view.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and diversity of opinions and varied perspectives both in terms of risk tolerance and potential benefits, so it's important for us to identify what matters		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and we invite them here at FDA, and we schedule meetings with the review divisions where they come and express their point of view. Then there are citizens' petitions. Many	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and diversity of opinions and varied perspectives both in terms of risk tolerance and potential benefits, so it's important for us to identify what matters and what is important for the patient. This will		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and we invite them here at FDA, and we schedule meetings with the review divisions where they come and express their point of view. Then there are citizens' petitions. Many patient advocacy organizations have the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and diversity of opinions and varied perspectives both in terms of risk tolerance and potential benefits, so it's important for us to identify what matters and what is important for the patient. This will help us in the development of clinical trials that		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and we invite them here at FDA, and we schedule meetings with the review divisions where they come and express their point of view. Then there are citizens' petitions. Many patient advocacy organizations have the sophistication to submit to us a citizens'	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and diversity of opinions and varied perspectives both in terms of risk tolerance and potential benefits, so it's important for us to identify what matters and what is important for the patient. This will help us in the development of clinical trials that are meaningful and realistic, and will raise FDA's		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	many patients often take advantage and come and speak, but they often get about five minutes to make their point of view that is five minutes each. And if you have not witnessed or participated, or seen an AC committee meeting, there are a few recordings on our actually a lot of recordings on our website. I would highly recommend you to see that. It's a very neat process. Also, we often encounter patients at national meetings, such as NORD, the National Organization for the Rare Diseases, and we have lively conversations with patients, and we engage with them there. Sometimes patient advocacy groups also request to speak to us on an ad hoc basis, and we invite them here at FDA, and we schedule meetings with the review divisions where they come and express their point of view. Then there are citizens' petitions. Many patient advocacy organizations have the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I can tell you that it's probably not the most effective way to be able to get your opinion across to us. And we are in the age of social media. FDA also has an FDA Facebook page where patients can engage with FDA and give their opinions. Earlier during the day, you heard Dr. Selena Daniels. She spoke about patient voice. Patient voice is important to us because patients bring insight to a disease. Patients provide insight on issues, problems, and/or questions that are important to patients and their family members. We also recognize not just one patient represents the entire patient community of that particular disease. Patients have a vested interest and diversity of opinions and varied perspectives both in terms of risk tolerance and potential benefits, so it's important for us to identify what matters and what is important for the patient. This will help us in the development of clinical trials that		

	Page 109		Page 111
1	science of patient engagement is used in	1	the break, and I tell you what FDA is thinking
	integrating the patient's voice into the regulatory		about a product in development, what our current
	process to better enable patient's perspectives to		thinking is and what our plan is, and you have a
	shape product development and approval. What value		cousin who is a stockbroker, and you happen to meet
	can patient engagement add? Better designed		them at a dinner party, and you mentioned to them
	clinical trials; faster recruitment and improved		what I had said, you can well imagine, he goes out,
	retention; cutting time and cost of product		and you can see how bad it could be.
	development; help develop meaningful endpoints and	8	· · · · · · · · · · · · · · · · ·
	measurements; contribute valuable data to patient	_	bias, fairness, and consistency. We really do try
	registries and natural history registries; and		to be consistent in our approaches, and it's hard
	medical products that better reflect outcome and		because FDA is a very large organization made up of
	quality-of-life measures most important to		thousands of people, but we work hard to be
	patients. So it is very important for us. We want		consistent in that approach and avoid showing bias
	to hear from you.		to one company over another and rather must focus on the scientific facts presented to us. We do
15	FDA desires to be transparent, but often can't because of the law. We do want to have a		•
	dialogue. We want to hear from you, but often when		actively think hard about making sure that we are
			acting in that way.
	we are talking to you, we are constrained, and it's	18	5 11
	very uncomfortable for us because we really want to be able to talk back, but we can't, and that's		the patient organizations, we try to incorporate
	predominantly because of the law. I met a couple	20	and dialogue broadly with patients and industry and not just picking one group over another group.
	of you during the break, and we were talking about		Sometimes patient advocacy is fractured, shocking
22	or you during the break, and we were talking about	22	Contentines patient advocacy is nactured, shocking
	Page 110		Page 112
1	-	1	-
	some things. I was restricted in giving my answers		information. Correct? But sometimes even within
	-	2	information. Correct? But sometimes even within small disease groups, we find that there are
2 3	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding	2 3	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus
2 3 4	some things. I was restricted in giving my answers because of the law, again, and I did express that.	2 3 4	information. Correct? But sometimes even within small disease groups, we find that there are
2 3 4 5	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge,	2 3 4 5	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have
2 3 4 5 6	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing	2 3 4 5 6	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful
2 3 4 5 6 7	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the	2 3 4 5 6	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and
2 3 4 5 6 7 8	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during	2 3 4 5 6 7 8	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts.
2 3 4 5 6 7 8	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during	2 3 4 5 6 7 8 9	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we
2 3 4 5 6 7 8 9	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time.	2 3 4 5 6 7 8 9	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and
2 3 4 5 7 8 9 10 11	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to	2 3 4 5 6 7 8 9 10 11	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of
2 3 4 5 6 7 8 9 10 11 12	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific	2 3 4 5 6 7 8 9 10 11 12	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So
2 3 4 5 6 7 8 9 10 11 12 13	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development	2 3 4 5 6 7 8 9 10 11 12 13	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear
2 3 4 5 6 7 8 9 10 11 12 13 14	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes	2 3 4 5 6 7 8 9 10 11 12 13	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes it frustrates the patient community that we can't	2 3 4 5 6 7 8 9 10 11 12 13 14 15	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes it frustrates the patient community that we can't directly tell them what we are thinking and what we	2 3 4 5 6 7 8 9 10 11 12 13 14 15	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing. As much as we listen and as much as we try to incorporate and I think you will hear a lot
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes it frustrates the patient community that we can't directly tell them what we are thinking and what we think needs to happen next, or what we even think	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing. As much as we listen and as much as we try to incorporate and I think you will hear a lot more details when they discuss about the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes it frustrates the patient community that we can't directly tell them what we are thinking and what we think needs to happen next, or what we even think of what has happened so far, but the whole reason	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing. As much as we listen and as much as we try to incorporate and I think you will hear a lot more details when they discuss about the patient-focused drug development meetings, we
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes it frustrates the patient community that we can't directly tell them what we are thinking and what we think needs to happen next, or what we even think of what has happened so far, but the whole reason is that it's really designed to protect the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing. As much as we listen and as much as we try to incorporate and I think you will hear a lot more details when they discuss about the patient-focused drug development meetings, we really do value what we hear, but we can't always
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes it frustrates the patient community that we can't directly tell them what we are thinking and what we think needs to happen next, or what we even think of what has happened so far, but the whole reason is that it's really designed to protect the sponsor, and this is congressional action and law.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing. As much as we listen and as much as we try to incorporate and I think you will hear a lot more details when they discuss about the patient-focused drug development meetings, we really do value what we hear, but we can't always
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	some things. I was restricted in giving my answers because of the law, again, and I did express that. We do operate under strict laws regarding confidentiality in regards to our knowledge, opinions, and what we are saying and discussing with sponsors during drug development and the review process because that's a very confidential relationship that we have with the sponsor during that period of time. This greatly restricts our ability to discuss or even mention the existence of specific products that are under review or development during that period of time. And I know sometimes it frustrates the patient community that we can't directly tell them what we are thinking and what we think needs to happen next, or what we even think of what has happened so far, but the whole reason is that it's really designed to protect the sponsor, and this is congressional action and law. It's to protect their commercially sensitive	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	information. Correct? But sometimes even within small disease groups, we find that there are patient advocates who have one strong view versus another group of patient advocates that have another strong view. So we have to be very careful in listening to both the views and try and incorporate those views into our thoughts. Finally, there is this area of bias. If we see the patients coming in who are paid and selected by the sponsors to present their point of view to us, believe me, we are aware of that. So we also carefully examine that into what we hear and what we know, being a very selected point of view that we may be hearing. As much as we listen and as much as we try to incorporate and I think you will hear a lot more details when they discuss about the patient-focused drug development meetings, we really do value what we hear, but we can't always follow.

	EK and You: Keys to Effective Engagement Page 113	1	April 5, 2016
	Fage 113		Page 115
1	may not allow us to do what you are recommending us	1	questions. We also have a mailbox for PASE, which
2	to do.	2	is cderpase@fda.hhs.gov. You can email us there.
3	You'll be surprised that we even sometimes	3	I will be also here for the entire day, and if you
4	get phone calls from Congress sometimes telling us	4	have any questions, please feel free to stop me.
5	to do things, and we say, hmmm, I don't think	5	Thank you.
6	that's legal, and we sometimes can't always do	6	Do you have any questions
7	that. So we may also have a real difference of	7	Questions and Answers
8	opinion on the interpretation of the underlying	8	MS. NIZAR: Thank you so much. All that
9	facts. You may or may not be aware, but in fact,	9	information was amazing. I just had a doubt.
10	if you look at the medical and scientific published	10	We're a rare disease organization, and as I
11	literature, less than half of it can be reproduced,	11	mentioned, a very small one. You mentioned the
12	so you can't always believe everything you read,	12	ESMR. You mentioned the PFDD, the ad hoc, the FDA
13	even in a medical journal. It doesn't always turn	13	meetings, the advisory committee, the patient rep
14	out to be quite the truth.	14	program. Now, basically my question is, is there
15	FDA is the only regulatory organization in	15	like a flowchart. Step 1, where do we go? Step 2,
16	the world that looks at the actual data. For	16	where do we go?
17	example, in Europe, they often will just look at	17	LCDR KHATRI: No, there is no flowchart or
18	the summarizations that were given to them by the	18	any sequence in which you should go step 1, step 2,
19	sponsors. Here we say, in God we trust; everything	19	or step 3. Those are the different options for
20	else, bring us the data, and we are going to take a	20	patient engagement, depending upon what works best
21	very good look at it. So we may have differences	21	for you. So as Chris mentioned earlier and showed
22	and views on the practicality of the	22	you, the external stakeholder meeting request
	Page 114		Page 116
1	recommendations that are made to us, or as I	1	system is an online system, and you will be able to
2	mentioned before, conflict with the laws or	2	request a meeting with FDA through that system.
3	regulations, maybe not in a way that makes it	3	It's a centralized process. It's a very noble
4	illegal, but what introduces a very different legal	4	approach, and this is the first time PASE has done
5	risk.	5	it here at CDER. So if you request your meeting,
6	Finally, the last two, there can be an	6	then we will be able to triage your request and
7	inconsistency with the recommendations in our	7	connect you with the right people.
8	entire policy position or previous decisions. Now,	8	MS. NIZAR: What's the turnaround time for
9	that doesn't mean that we can't change our policy.	9	replying?
10	It does not mean we can't diverge from our previous	10	LCDR KHATRI: Seven days we respond to your
11	decisions, but we cannot do that lightly because	11	request. It's very easy form.
	that would not be fair or consistent. So when we	12	MS. NIZAR: Is it similar to the pre-IND
	do make a change, it has to be very, very carefully	13	request?
	considered and well supported.	14	LCDR KHATRI: I think our form is very
15	With that, I'll conclude my presentation,		simple, and I can talk to you after the meeting or
16	and again, your recommendations, patients'		doing lunch, and really walk you through the
	recommendations are very valuable to us, but we	17	process.
17	-		MS NIZAD: Okov Voo I roolly opprovinte
17 18	always can't follow or do what you're recommending	18	MS. NIZAR: Okay. Yes, I really appreciate
17 18 19	always can't follow or do what you're recommending us to do. Thank you very much.	19	that. Also, I just wanted to mention, sometimes
17 18 19 20	always can't follow or do what you're recommending us to do. Thank you very much. (Applause.)	19 20	that. Also, I just wanted to mention, sometimes it's not always easy to attend these meetings. We
17 18 19 20 21	always can't follow or do what you're recommending us to do. Thank you very much.	19 20 21	that. Also, I just wanted to mention, sometimes

CD.	ER and You: Keys to Effective Engagement		April 5, 2018
	Page 117		Page 119
1	accessible. We were literally on the road driving	1	different.
	in a wheelchair because we couldn't find	2	Are there any other questions that people
3	accessibility to get here.	3	
4	So it's not always very easy, so email is	4	MS. KERKORIAN: You mentioned
5	really our last resort. And sometimes it's not	5	DR. WHYTE: I've been sitting next to you.
	clear on your website either like who is the person	6	
7	that we need to contact, so we're sending like	7	MS. KERKORIAN: I know, leaned over.
8	blind emails to people hoping against hope that	8	You mentioned the turnaround time for
	someone will reply. Thank you.	9	responses to emails, but what is the turnaround
10	LCDR KHATRI: First of all, I'm sorry that	10	time once you've identified the right person? Is
11	you had to go through that much trouble to travel		there a turnaround time or a ballpark in terms of
	to the White Oak campus, but this meeting is also		how quickly a meeting can be scheduled for planning
	on the Web, so it's easily people can attend		purposes?
	through Web as well. And we do understand the	14	
	traffic around the Silver Spring area and just	15	accommodate stakeholders. What I focus on with my
	coming to the White Oak campus. So we do		team is we're here for the stakeholders and how do
	understand all that.	17	we make it easy for stakeholders. It is kind of
18	Regarding the emails you mentioned, I gave		changing the mind-set. And for those of you that
19	you two emails, so if you have any questions, we		have been at meetings here at the FDA, we tend to
	have two emails. You can personally contact me,		travel in packs. So if you come to a meeting, we
	and I will also give you my card. But it is also		may often outnumber the number of attendees you
	on the slides, which will be posted on our website.		have; that it's 20 people in the room. If
	Page 118		Page 120
1	Also, PASE has a central email, which is monitored	1	Dr. Woodcock comes, it's 50 people in the room, and
2	every single day. So every hour we would	2	that can be a challenge to schedule.
3	say and we are very quick in responding to any	3	So we really do a couple of things. We want
4	emails which we receive.	4	to ask the requesters sometimes people have a
5	MS. NIZAR: Thank you so much. I appreciate	5	set time period that they want because they're
6	it.	6	going to be here in the D.C. area for other
7	LCDR KHATRI: You are welcome.	7	reasons, so we try to accommodate that as best as
8	DR. WHYTE: I think your point is very good	8	we can. And I will tell you that since we've
9	about people send emails blindly, and that was the	9	launched, we've had some meetings that have been
10	whole impetus, in a way, to create this centralized	10	scheduled and already have taken place within two
11	process, that you don't need to know who you need	11	or three weeks. Other meetings are already set out
12	to contact. You just go to	12	for a couple of months, and there are a couple of
13	fda.gov/requestameetingondrugs. So it's a fair	13	reasons why that is.
14	point, and we acknowledge that it's not easy to	14	Often folks want to assemble as many people
15	navigate literally and figuratively the FDA.	15	as they can. And let's be realistic; everyone's
16	So we still have work to do. It's iterative	16	not in the D.C. area, so folks have to fly in, and
17	steps along the way. And I want to thank	17	it can be expensive to make a flight at the last
18	Lieutenant Khatri for that presentation in terms of	18	minute. And then depending upon the level of the
19	sometimes it's hard for us to tell you when we	19	G G G
20	can't say things. I liked your line when you said	20	we're really committed to this idea of one or two
	sometimes we'd like to talk back. She means in a	21	months to really be able to get a meeting.
22	good way, the talk back. Some other days may be	22	I know that might seem long to some people,

	DER and 100. Reys to Effective Engagement	11p11 3, 20	
	Page 121	Page 12	23
	1 and remember, this is an iterative process that	1 request and are on their schedules, like pre-INDs	
:	2 we're trying to be as responsive as we can. We're	2 meetings, after phase 2 meetings, and so forth.	
	3 really trying to explore the idea of WebEx and	3 And the FDA can't invite us as patient advocates or	
	4 conference calls. I've talk to a couple of people	4 patients to those meetings.	
!	5 at the break, and I mentioned it in my remarks. I	5 The sponsor has to do that. But you can go	
(just find there is this culture of meetings that	6 to a pre-IND meeting to represent your patients,	
	7 people physically want to come and meet. And we're	7 and you can become a very important aspect of the	
1	B fine with that and embrace that, but sometimes that	8 conversation with the review divisions at those and	
	9 can be challenging to schedule everyone.	9 other scheduled meetings with sponsor.	
1	WebEx can be productive, too, and conference	10 DR. WHYTE: That's a very good point. And	
1:	1 calls. So it's just really trying to consider	11 as you know from most of those meetings, the	
	2 multiple approaches.	12 sponsor has to allow it, and the sponsor may or may	
1		13 not allow it. We have often stated, and	
1	4 biosimilars friend.	14 Dr. Woodcock herself has stated, that there is	
1	5 MS. KRUSE: I just wanted to say that our	15 nothing that precludes patients or other persons	
10	organization had a meeting back in November with	16 from attending these meetings, but they are the	
	7 OHOP, which is the Office of Hematology and	17 sponsor's meeting, so folks would have to be guests	
1		18 of the sponsor. We cannot include force that	
1	9 high, but I had sent an email to Rea Blakey in	19 participation.	
	PASE, and within 10 minutes, I received a response	20 I think that's a very good point. And	
	1 and worked directly with Lieutenant Khatri. And	21 again, it also goes to the idea that patient	
	2 she was so wonderful and stayed in contact with me	22 engagement and stakeholder engagement is along the	
	Page 122	Page 12	24
	Page 122 1. every step of the way. And if I didn't follow up,	Page 12 1 continuum of drug development. It's not just at	24
	-		24
:	1 every step of the way. And if I didn't follow up,	1 continuum of drug development. It's not just at	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) 	24
:	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to 	24
:	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start promptly at 1:00. We are going to have a fun 30 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. DR. WHYTE: Okay. Oh, whoa. Let's keep them coming. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start promptly at 1:00. We are going to have a fun 30 minutes, not that these last few hours haven't been 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. DR. WHYTE: Okay. Oh, whoa. Let's keep them coming. 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start promptly at 1:00. We are going to have a fun 30 minutes, not that these last few hours haven't been fun. But we're going to break up into four groups 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. DR. WHYTE: Okay. Oh, whoa. Let's keep them coming. MR. BARTEK: Just a quick comment. With all 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start promptly at 1:00. We are going to have a fun 30 minutes, not that these last few hours haven't been fun. But we're going to break up into four groups at the front, where we're going to play FDA 	24
	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. DR. WHYTE: Okay. Oh, whoa. Let's keep them coming. MR. BARTEK: Just a quick comment. With all the discussion about how to request a meeting and 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start promptly at 1:00. We are going to have a fun 30 minutes, not that these last few hours haven't been fun. But we're going to break up into four groups a the front, where we're going to test your knowledge. 	24
: : : : : : : : : : : : : : : : : : :	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. DR. WHYTE: Okay. Oh, whoa. Let's keep them coming. MR. BARTEK: Just a quick comment. With all the discussion about how to request a meeting and how important it is to have meetings, one thing 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start promptly at 1:00. We are going to have a fun 30 minutes, not that these last few hours haven't been fun. But we're going to break up into four groups at the front, where we're going to play FDA Jeopardy, and we're going to test your knowledge. There are no prizes other than your bragging 	24
: : : : : : : : : : : : : : : : : : :	 every step of the way. And if I didn't follow up, she sent me a reminder email saying "Hey, Caroline. You need to send those slides to me." But it was really a wonderful process to go through DR. WHYTE: That's great to hear. MS. KRUSE: and was not complicated in any way, and just a very, very quick response on the part of the FDA. So thank you for that. DR. WHYTE: And nobody paid you to say that, I feel like we have to disclose. (Laughter.) DR. WHYTE: That's great to hear. MR. BARTEK: And this is another unpaid solicitation. DR. WHYTE: Okay. Oh, whoa. Let's keep them coming. MR. BARTEK: Just a quick comment. With all the discussion about how to request a meeting and how important it is to have meetings, one thing that hasn't been terribly emphasized is the 	 continuum of drug development. It's not just at that time when an NDA, a new drug application package, is before the agency. And I think that's a very important point, but it's also a good point to emphasize that it can often be hard for individual patients, for caregivers, to get through to a sponsor, to get to that point to say this is important to me, and we need to think through those strategies as well. Any other questions? (No response.) DR. WHYTE: All right. So we're going to break for lunch. When we come back, we'll start promptly at 1:00. We are going to have a fun 30 minutes, not that these last few hours haven't been fun. But we're going to break up into four groups at the front, where we're going to play FDA Jeopardy, and we're going to test your knowledge. There are no prizes other than your bragging rights. 	24

U	ER and You: Keys to Effective Engagement	April 3, 2
	Page 125	Page 1
1	get the point. So get sugared up and be ready to	1 Team 4 is Kate; Sakshi; Christy; Matt;
	have some fun promptly at 1:00. Thank you very	2 Jillian.
	much.	3 That's the attitude over there.
4	(Whereupon, at 12:02 p.m., a lunch recess	4 Team 1, we need a sitter who's going to
5	was taken.)	5 click. Everyone needs to have a point person.
6		6 This is Team 1?
7		7 Where is Team 2?
8		8 (Crosstalk.)
9		9 DR. WHYTE: Where is Team 2? Huddle behind
10		10 them
11		11 Team 3? Who's Team 3? I was at my son's
12		12 T-ball game yesterday, and he's 5 years old, and
13		13 that was easier to manage.
14		14 We're not going to have all white men at the
15		15 table. Let's have diversity.
16		16 Team 4? Look at what is happening. Where
17		17 is the Team 3?
18		18 (Discussion.)
19		DR. WHYTE: Team 4? Who's Team 4? Over
20		20 there. That's easy for you over there. Okay,
21		21 diversity.
22		22 I'm going to read the instructions. I'm
	Page 126	Page 1
1	AFTERNOON SESSION	1 going to give you clues that you'll respond to,
1 2	AFTERNOON SESSION (1:01 p.m.)	 going to give you clues that you'll respond to, remember, in the form of a question. Remember
2	(1:01 p.m.)	2 remember, in the form of a question. Remember
2 3	(1:01 p.m.) CDER Jeopardy	2 remember, in the form of a question. Remember3 that. You have to answer in the form of a
2 3 4 5	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some	 remember, in the form of a question. Remember that. You have to answer in the form of a question. There are 5 categories, 100 to 500
2 3 4 5 6 7	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right,	 remember, in the form of a question. Remember that. You have to answer in the form of a question. There are 5 categories, 100 to 500 points, 25 questions in all. The winning team
2 3 4 5 6 7	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay.	 remember, in the form of a question. Remember that. You have to answer in the form of a question. There are 5 categories, 100 to 500 points, 25 questions in all. The winning team obviously will be the team that after the final
2 3 4 5 6 7 8	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right,	 remember, in the form of a question. Remember that. You have to answer in the form of a question. There are 5 categories, 100 to 500 points, 25 questions in all. The winning team obviously will be the team that after the final Jeopardy has the most points. Remember you're
2 3 4 5 6 7 8	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't	 remember, in the form of a question. Remember that. You have to answer in the form of a question. There are 5 categories, 100 to 500 points, 25 questions in all. The winning team obviously will be the team that after the final Jeopardy has the most points. Remember you're penalized if you don't answer the question right.
2 3 4 5 7 8 9 10	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you.	 remember, in the form of a question. Remember that. You have to answer in the form of a question. There are 5 categories, 100 to 500 points, 25 questions in all. The winning team obviously will be the team that after the final Jeopardy has the most points. Remember you're penalized if you don't answer the question right. Now, here's the important point. We've done
2 3 4 5 7 8 9 10 11 12	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let
2 3 4 5 7 8 9 10 11 12	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you?	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it
2 3 4 5 7 8 9 10 11 12	(1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit here, and the others will go around each team so 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.) 16 DR. WHYTE: You have to wait until I've done
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit here, and the others will go around each team so you can work together to determine what answer 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.) 16 DR. WHYTE: You have to wait until I've done 17 the question, and then you click, because we have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit here, and the others will go around each team so you can work together to determine what answer you're going to pick. 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.) 16 DR. WHYTE: You have to wait until I've done 17 the question, and then you click, because we have 18 tested these. They all work, and I know everyone
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit here, and the others will go around each team so you can work together to determine what answer you're going to pick. Team 2 is Nadia; Neena; Dave; Calvin; Cara; 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.) 16 DR. WHYTE: You have to wait until I've done 17 the question, and then you click, because we have 18 tested these. They all work, and I know everyone 19 will want to say it doesn't work. It does. It's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit here, and the others will go around each team so you can work together to determine what answer you're going to pick. Team 2 is Nadia; Neena; Dave; Calvin; Cara; and Anne Marie [ph]. 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.) 16 DR. WHYTE: You have to wait until I've done 17 the question, and then you click, because we have 18 tested these. They all work, and I know everyone 19 will want to say it doesn't work. It does. It's 20 the FDA. It's like a device.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit here, and the others will go around each team so you can work together to determine what answer you're going to pick. Team 2 is Nadia; Neena; Dave; Calvin; Cara; 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.) 16 DR. WHYTE: You have to wait until I've done 17 the question, and then you click, because we have 18 tested these. They all work, and I know everyone 19 will want to say it doesn't work. It does. It's 20 the FDA. It's like a device. 21 (Laughter.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 (1:01 p.m.) CDER Jeopardy DR. WHYTE: Are we ready to play some Jeopardy? Are we ready to play some Jeopardy? Woo-hoo! Okay. I still need two volunteers. Is that right, Noah? Two. I need two more volunteers. Don't make me choose you. Let's get the teams ready. Am I reading these off, Noah, or you? Team 1, Katy Riddick; Kevin Healy; Hiren Gadhiya; Janay Johnson; Jim Bender; Alana Broe. Where are you? Team 1? Which one is Team 1 up here? The clicker has to be Team 1. One person will sit here, and the others will go around each team so you can work together to determine what answer you're going to pick. Team 2 is Nadia; Neena; Dave; Calvin; Cara; and Anne Marie [ph]. 	 2 remember, in the form of a question. Remember 3 that. You have to answer in the form of a 4 question. There are 5 categories, 100 to 500 5 points, 25 questions in all. The winning team 6 obviously will be the team that after the final 7 Jeopardy has the most points. Remember you're 8 penalized if you don't answer the question right. 9 Now, here's the important point. We've done 10 this for a few years, and I say this. I say it 11 like five times, and it still doesn't work. The 12 way that we're going to play it is you have to let 13 me read the whole question. So don't be doing it 14 while I'm talking because it won't work. 15 (Laughter.) 16 DR. WHYTE: You have to wait until I've done 17 the question, and then you click, because we have 18 tested these. They all work, and I know everyone 19 will want to say it doesn't work. It does. It's 20 the FDA. It's like a device.

	EK and You: Keys to Effective Engagement		April 5, 2018
	Page 129		Page 131
1	randomly determined who will go first. But here	1	TEAM 2: Prescription drug user fee.
	are the categories: Acronym Soup; Drugs and	2	
	Biologics; Play It Safe; Trials and Tribulations;	3	
	and the Advocacy Cheat Sheet.	4	
5	So randomly selected is Team 4. This is why	5	rules followers here. Okay, Team 2, choose again.
6	you need to be near each other. Team 4, Play It	6	TEAM 2: Advocacy Cheat Sheet for 200.
	Safe for?	7	DR. WHYTE: Advocacy Cheat Sheet for 200.
8	TEAM 4: Five hundred.	8	
و	DR. WHYTE: Going big. All right. Play It	9	caregivers, and other members of the public to
10	Safe. Remember, wait until I finish reading it.		present data, information, or viewpoints on issues
	"The FDA can require manufacturers provide the		pending before the FDA committee. Team 4?
	safety strategy to manage serious known or	12	
	potential risks associated with medicines and	13	meetings?
	manage their use so that patients can continue	14	
	using them."		to allow it. Let's give it to them. It's really,
16	Now let's see how smart you all are. Team		"What are FDA sponsored public meetings." Advisory
17	1, in the form of a question.		committees are one of those types of meetings, so
18	TEAM 1: What is the risk evaluation and		we're going to be lenient.
19	mitigation strategy?	19	Team 4, choose again. Team 3, you've got to
20	DR. WHYTE: What is the risk evaluation and	20	get ready with your clicker.
21	mitigation strategy? That is correct, REMS.	21	TEAM 4: Acronym Soup for 100.
22	Team 1 choose again.	22	DR. WHYTE: Acronym Soup, playing it safe,
	Page 130		Page 132
1	Page 130 TEAM 1: We would like to Play It Safe for	1	Page 132 really, for 100. But okay, Acronym Soup. IND.
	-		
	TEAM 1: We would like to Play It Safe for		really, for 100. But okay, Acronym Soup. IND. Team 1?
2 3	TEAM 1: We would like to Play It Safe for 300.	2	really, for 100. But okay, Acronym Soup. IND. Team 1?
2 3 4	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This	2 3 4	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug?
2 3 4 5	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the	2 3 4	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is
2 3 4 5 6	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for	2 3 4 5 6	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug?
2 3 4 5 6 7	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these	2 3 4 5 6	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible
2 3 4 5 6 7	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse	2 3 4 5 6 7	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic].
2 3 4 5 6 7 8	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4?	2 3 4 5 6 7 8	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.)
2 3 4 5 6 7 8 9	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance?	2 3 4 5 6 7 8 9	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400.
2 3 4 5 6 7 8 9 10 11	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance.	2 3 4 5 6 7 8 9	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2?
2 3 4 5 6 7 8 9 10 11 12 13	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was	2 3 4 5 6 7 8 9 10	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee.
2 3 4 5 6 7 8 9 10 11 12 13	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize.	2 3 4 5 6 7 8 9 10 11 12	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question.
2 3 4 5 6 7 8 9 10 11 12 13 14	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize. TEAM 4: Acronyms for 200.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question. TEAM 2: What is generic drug user fee?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize. TEAM 4: Acronyms for 200. DR. WHYTE: Acronym Soup for 200. Team 1?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question. TEAM 2: What is generic drug user fee? DR. WHYTE: Very good. Thank you. C'mon
2 3 4 5 6 7 8 9 10 11 12 13 14	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize. TEAM 4: Acronyms for 200. DR. WHYTE: Acronym Soup for 200. Team 1? TEAM 1: What is new molecular entity?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question. TEAM 2: What is generic drug user fee? DR. WHYTE: Very good. Thank you. C'mon
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize. TEAM 4: Acronyms for 200. DR. WHYTE: Acronym Soup for 200. Team 1? TEAM 1: What is new molecular entity? DR. WHYTE: That is correct. What is new	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question. TEAM 2: What is generic drug user fee? DR. WHYTE: Very good. Thank you. C'mon now. Next time we don't give it to you. Team 2, choose again.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize. TEAM 4: Acronyms for 200. DR. WHYTE: Acronym Soup for 200. Team 1? TEAM 1: What is new molecular entity? DR. WHYTE: That is correct. What is new molecular entity? Choose again.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question. TEAM 2: What is generic drug user fee? DR. WHYTE: Very good. Thank you. C'mon now. Next time we don't give it to you. Team 2, choose again. TEAM 2: Acronym Soup for 500.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize. TEAM 4: Acronyms for 200. DR. WHYTE: Acronym Soup for 200. Team 1? TEAM 1: What is new molecular entity? DR. WHYTE: That is correct. What is new molecular entity? Choose again. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question. TEAM 2: What is generic drug user fee? DR. WHYTE: Very good. Thank you. C'mon now. Next time we don't give it to you. Team 2, choose again. TEAM 2: Acronym Soup for 500. DR. WHYTE: OND?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	TEAM 1: We would like to Play It Safe for 300. DR. WHYTE: Play It Safe for 300. This phase of the regulatory process occurs after the FDA has approved a drug or biologic product for marketing in the U.S. The FDA monitors these products to detect serious, unexpected adverse events and take action when necessary. Team 4? TEAM 4: What is postmarket surveillance? DR. WHYTE: What is postmarket surveillance. I'll accept that. Yes, that's correct or it could be phase 4. Team 3, choose again. I'm sorry. That was Team 4 I apologize. TEAM 4: Acronyms for 200. DR. WHYTE: Acronym Soup for 200. Team 1? TEAM 1: What is new molecular entity? DR. WHYTE: That is correct. What is new molecular entity? Choose again.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	really, for 100. But okay, Acronym Soup. IND. Team 1? TEAM 1: What is investigational new drug? DR. WHYTE: That is correct. What is investigational new drug? MALE PARTICIPANT: I don't think [inaudible - off mic]. (Laughter.) DR. WHYTE: Everybody says that. Team 1, choose again. TEAM 1: Acronym Soup for 400. DR. WHYTE: GDUFA. Team 2? TEAM 2: Generic Drug User Fee. DR. WHYTE: In the form of a question. TEAM 2: What is generic drug user fee? DR. WHYTE: Very good. Thank you. C'mon now. Next time we don't give it to you. Team 2, choose again. TEAM 2: Acronym Soup for 500. DR. WHYTE: OND? MALE PARTICIPANT: Office of New Drugs.

UD	od and Drug Administration - Public Workshop DER and You: Keys to Effective Engagement		April 3, 2018
	Page 133		Page 135
1	DR. WHYTE: What is the Office of New Drugs?	1	of biomedical research and may be used for
2	That is correct.	2	conditions that lack other available treatments.
3	Okay. Team 1 is in the lead with 1300;	3	It says Team 4.
4	followed by Team 2, 700; Team 4, 500; and Team 3 is	4	TEAM 3: What is biologics?
5	getting ready. You're getting ready. I don't know	5	DR. WHYTE: You're Team 3.
6	if it's the device or the users.	6	(Laughter.)
7	TEAM 1: Drugs and Biologics for 300.	7	DR. WHYTE: No, you're Team 2. It's Team 4.
8	DR. WHYTE: Drug and Biologics for 300. I	8	TEAM 4: What are biologics?
9	work on drug issues. These types of drugs fill	9	DR. WHYTE: What are biologics is correct.
10	most of the prescriptions in the United States.	10	I know, I thought it did, too, but I have to do
11	Although they typically cost less than their brand	11	what the computer says.
12	name counterparts, they're equivalent in	12	Okay. Team 4?
13	terms wait till I finish in terms of quality,	13	TEAM 4: Drugs and Biologics for 200.
14	performance, strength, and safety.	14	DR. WHYTE: These drug products are safe and
15	Team 3? No, that's not right. Which team	15	effective for consumers to use without a doctor's
16	is it?	16	prescription. Team 3? See, it works.
17	MALE PARTICIPANT: It's Team 1.	17	TEAM 3: What is over-the-counter drugs?
18	DR. WHYTE: Team 1.	18	DR. WHYTE: What are over-the-counter drugs?
19	TEAM 1: What are generic drugs?	19	That's correct. Okay!
20	DR. WHYTE: What are generic drugs. Okay.	20	(Applause.)
21	You've got to wait until I finish talking. I was	21	DR. WHYTE: Woooo! Now we've got a game
22	watching. I was hopeful. What are generic drugs?	22	going. Come on, Michigan! Trials and Tribulations
	Page 134		Page 136
1	Choose again.	1	for 300. This entity seeking to market a drug is
2	TEAM 1: Drugs and Biologics for 400,	2	responsible for its development and proving it's
3	please.	3	safe and effective. Team 2?
4	DR. WHYTE: Also known as the prescribing	4	TEAM 2: What is a drug product's sponsor?
5	information or package insert, this informative	5	DR. WHYTE: What is the sponsor? Sure.
6	communication provides healthcare professionals the	6	Okay. Choose again. That's correct.
7	pagage information to appropriately properties	1	
-	necessary information to appropriately prescribe	7	TEAM 2: Let's do Drugs and Biologics for
	drugs for safe and effective use. Team 1?	7 8	TEAM 2: Let's do Drugs and Biologics for 100, please.
8	drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling?	8	100, please.
8 9 10	drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling?	8 9 10	100, please. DR. WHYTE: A substance intended for use in
8 9 10 11	drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label?	8 9 10	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or
8 9 10 11 12	drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label? We'll give it to you. It's usually what is the	8 9 10 11	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease.
8 9 10 11 12 13	drugs for safe and effective use. Team 1?TEAM 1: What is the product labeling?DR. WHYTE: What is the product label?We'll give it to you. It's usually what is thedrug label or what is the packaging prescriber	8 9 10 11 12	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3?
8 9 10 11 12 13 14	drugs for safe and effective use. Team 1?TEAM 1: What is the product labeling?DR. WHYTE: What is the product label?We'll give it to you. It's usually what is thedrug label or what is the packaging prescriberinformation. But we'll give that to them. What is	8 9 10 11 12 13	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3? TEAM 3: What's a drug?
8 9 10 11 12 13 14	 drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label? We'll give it to you. It's usually what is the drug label or what is the packaging prescriber information. But we'll give that to them. What is the prescription drug labeling information? It goes by a couple different terms. 	8 9 10 11 12 13 14	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3? TEAM 3: What's a drug? DR. WHYTE: What is a drug? That's correct.
8 9 10 11 12 13 14 15 16	 drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label? We'll give it to you. It's usually what is the drug label or what is the packaging prescriber information. But we'll give that to them. What is the prescription drug labeling information? It goes by a couple different terms. 	8 9 10 11 12 13 14 15 16	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3? TEAM 3: What's a drug? DR. WHYTE: What is a drug? That's correct. Okay. Choose again.
8 9 10 11 12 13 14 15 16	 drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label? We'll give it to you. It's usually what is the drug label or what is the packaging prescriber information. But we'll give that to them. What is the prescription drug labeling information? It goes by a couple different terms. Okay. Go ahead. Thank you. You're so 	8 9 10 11 12 13 14 15 16	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3? TEAM 3: What's a drug? DR. WHYTE: What is a drug? That's correct. Okay. Choose again. TEAM 3: Let's go Advocacy Cheat Sheet for
8 9 10 11 12 13 14 15 16 17	drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label? We'll give it to you. It's usually what is the drug label or what is the packaging prescriber information. But we'll give that to them. What is the prescription drug labeling information? It goes by a couple different terms. Okay. Go ahead. Thank you. You're so courteous. TEAM 1: Drugs and Biologics for 500.	8 9 10 11 12 13 14 15 16 17	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3? TEAM 3: What's a drug? DR. WHYTE: What is a drug? That's correct. Okay. Choose again. TEAM 3: Let's go Advocacy Cheat Sheet for 3[00].
8 9 10 11 12 13 14 15 16 17 18 19	drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label? We'll give it to you. It's usually what is the drug label or what is the packaging prescriber information. But we'll give that to them. What is the prescription drug labeling information? It goes by a couple different terms. Okay. Go ahead. Thank you. You're so courteous. TEAM 1: Drugs and Biologics for 500.	8 9 10 11 12 13 14 15 16 17 18	 100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3? TEAM 3: What's a drug? DR. WHYTE: What is a drug? That's correct. Okay. Choose again. TEAM 3: Let's go Advocacy Cheat Sheet for 3[00]. DR. WHYTE: Advocacy Cheat Sheet for 300.
8 9 10 11 12 13 14 15 16 17 18 19 20	drugs for safe and effective use. Team 1? TEAM 1: What is the product labeling? DR. WHYTE: What is the product label? We'll give it to you. It's usually what is the drug label or what is the packaging prescriber information. But we'll give that to them. What is the prescription drug labeling information? It goes by a couple different terms. Okay. Go ahead. Thank you. You're so courteous. TEAM 1: Drugs and Biologics for 500. DR. WHYTE: These products include vaccines;	8 9 10 11 12 13 14 15 16 17 18 19 20	100, please. DR. WHYTE: A substance intended for use in diagnosing, curing, mitigating, treating, or preventing a disease. Team 3? TEAM 3: What's a drug? DR. WHYTE: What is a drug? That's correct. Okay. Choose again. TEAM 3: Let's go Advocacy Cheat Sheet for 3[00]. DR. WHYTE: Advocacy Cheat Sheet for 300. This FY 2013 to 2017 initiative seeks to gather

Page 137 evaluation process. Team 4?	1	Page 139
	1	investigational medical product outside of a
Team 4?		investigational medical product outside of a
	2	clinical trial.
TEAM 4: What are patient-focused drug	3	Team 1?
developments?	4	TEAM 1: What is expanded access?
DR. WHYTE: What are patient-focused drug	5	DR. WHYTE: What is expanded access? That
developments? That's fine. Very good. Choose	6	is correct. Okay. Close. Choose again.
again.	7	TEAM 1: We're going to Play It Safe for
TEAM 4: Advocacy Cheat Sheet for 500.	8	200, please.
DR. WHYTE: Advocacy Cheat Sheet for 500.	9	DR. WHYTE: Okay. Play It Safe for 200.
Wooooo! Okay. You could either take the lead or	10	These entities are required to report adverse drug
end up in last place. How much you want to bet?	11	events to the FDA.
MALE PARTICIPANT: Bet it all!	12	Team 3?
DR. WHYTE: You're going to bet it all?	13	TEAM 3: What are the drug companies?
TEAM 4: Everything?	14	DR. WHYTE: What are drug companies, drug
DR. WHYTE: Bet it all, 1300, the whole	15	sponsors? That's correct. Okay. Choose again.
thing. Wow! High risk, high reward.	16	TEAM 3: Play It Safe for 4[00].
This organization engages with stakeholders,	17	DR. WHYTE: Play It Safe for 400. This is
including patients, advocates, and healthcare	18	one of the many systems the FDA uses to collect
professionals, to improve their understanding in	19	reports on adverse drug events.
how the FDA approves and regulates drugs.	20	Team 1? It's multiple answers.
TEAM 4: What is the P-A-S-E?	21	TEAM 1: What are PADARS [ph]?
DR. WHYTE: What does it stand for?	22	DR. WHYTE: What are what?
Page 138		Page 140
(Laughter.)	1	TEAM 4: What are MedWatch forms?
DR. WHYTE: Okay. Patient Affairs	2	DR. WHYTE: That's better. Okay.
Stakeholder Engagement. What is PASE? Very good.	3	(Laughter.)
All right. You're in the lead. Wow!	4	DR. WHYTE: What's MedWatch? Where did you
TEAM 4: Advocacy Cheat Sheet, 400.	5	pull that out of all of a sudden? That's good.
DR. WHYTE: Okay. This program helps	6	Okay. MedWatch is one of the answers; FAERS, yes.
consumers and healthcare professionals better	7	That's correct. We'll accept it. I think you were
understand who takes part in clinical trials by	8	thinking FAERS.
providing them with demographic data on the trial	9	All right. Choose again. You're back in
participants for FDA-approved new molecular	10	the lead.
entities.	11	TEAM 1: Trials and Tribulations for 200.
Team 3? Dr. Woodcock mentioned it.	12	DR. WHYTE: This phase of clinical trials is
TEAM 3: What are [inaudible - off mic]?	13	typically the final phase before approval and
DR. WHYTE: I'm going to give it to you.	14	involves human subjects to establish the safety and
It's what are drug trial snapshots? But close	15	effectiveness of a drug. I love how I say you
enough. Okay. Choose again. Anybody could win	16	cannot click beforehand, and while I'm reading,
it.	17	it's clicking.
TEAM 3: I'm still going through a hell of a	18	(Laughter.)
trial. Trials and Tribulations for 500.	19	DR. WHYTE: Which team? Team 4.
DR. WHYTE: Okay. Trials and Tribulations	20	TEAM 4: What is phase 3?
for 500. Also known as compassionate use, this	21	DR. WHYTE: What is phase 3? That's
practice refers to the use of an unapproved	22	correct.
e ti irph SA cuppe Iteit ti fo	and up in last place. How much you want to bet? MALE PARTICIPANT: Bet it all! DR. WHYTE: You're going to bet it all? TEAM 4: Everything? DR. WHYTE: Bet it all, 1300, the whole hing. Wow! High risk, high reward. This organization engages with stakeholders, ncluding patients, advocates, and healthcare professionals, to improve their understanding in now the FDA approves and regulates drugs. TEAM 4: What is the P-A-S-E? DR. WHYTE: What does it stand for? Page 138 (Laughter.) DR. WHYTE: Okay. Patient Affairs Stakeholder Engagement. What is PASE? Very good. All right. You're in the lead. Wow! TEAM 4: Advocacy Cheat Sheet, 400. DR. WHYTE: Okay. This program helps consumers and healthcare professionals better understand who takes part in clinical trials by providing them with demographic data on the trial participants for FDA-approved new molecular entities. Team 3? Dr. Woodcock mentioned it. TEAM 3: What are [inaudible - off mic]? DR. WHYTE: I'm going to give it to you. t's what are drug trial snapshots? But close enough. Okay. Choose again. Anybody could win t. TEAM 3: I'm still going through a hell of a rial. Trials and Tribulations for 500. DR. WHYTE: Okay. Trials and Tribulations or 500. Also known as compassionate use, this	and up in last place. How much you want to bet?11MALE PARTICIPANT: Bet it all!12DR. WHYTE: You're going to bet it all?13TEAM 4: Everything?14DR. WHYTE: Bet it all, 1300, the whole15hing. Wow! High risk, high reward.16This organization engages with stakeholders,17ncluding patients, advocates, and healthcare18professionals, to improve their understanding in19now the FDA approves and regulates drugs.20TEAM 4: What is the P-A-S-E?21DR. WHYTE: What does it stand for?22Page 138(Laughter.)1DR. WHYTE: Okay. Patient Affairs2Stakeholder Engagement. What is PASE? Very good.3All right. You're in the lead. Wow!4TEAM 4: Advocacy Cheat Sheet, 400.5DR. WHYTE: Okay. This program helps6consumers and healthcare professionals better7understand who takes part in clinical trials by8porviding them with demographic data on the trial9porviding them with demographic data on the trial9porviding them with demographic of to you.14TEAM 3: What are [inaudible - off mic]?13DR. WHYTE: I'm going to give it to you.14team 3? Dr. Woodcock mentioned it.12TEAM 3: I'm still going through a hell of a18rial. Trials and Tribulations for 500.19DR. WHYTE: Okay. Trials and Tribulations20or 500. Also known as compassionate use, this21<

	Page 141		Page 143
			, i i i i i i i i i i i i i i i i i i i
1	Let's just go over, Team 1, 2900; Team 4,	1	TEAM 1: Participation in advisory committee
	2800; Team 1 [sic], 2000; and Team 3, 900. Anybody	2	meetings.
3	in theory could win, in theory. Okay. Let's go.	3	DR. WHYTE: Participation in advisory
4	TEAM 4: Trials and Tribulations, 400.	4	committees. That's one of the answers. That's
5	DR. WHYTE: Trials and Tribulations, 400.		correct. What is participation in advisory
6	This landmark legislation enacted in 2016 builds on	6	committees?
	the FDA's critical path initiative efforts to	7	MALE PARTICIPANT: Do we get credit
8	foster innovation in the scientific processes for	8	[inaudible - off mic]?
	developing, manufacturing, and evaluating medical	9	(Laughter.)
10	products.	10	DR. WHYTE: Okay. That's very good. Good
11	Team 4?	11	job, everyone. Now we will enter the final match
12	TEAM 4: What is the 21st Century Cures Act?		with the final Jeopardy question let's not show
13	DR. WHYTE: What is the 21st Century Cures		it yet and see how much you're going to wager.
14	Act? Very good.	14	Somebody good in math figure it out.
15	TEAM 4: Play It Safe, 100.	15	Team 1, how much are you going wager?
16	DR. WHYTE: Play It Safe, 100. This center	16	(Crosstalk.)
17	of the FDA evaluates new drugs before they can be	17	TEAM 1: We will wager \$1900.
18	sold, ensuring generic and brand name drugs work	18	DR. WHYTE: I thought they said all. I
19	correctly, and their benefits outweigh their risks.	19	don't know. You decide. How much?
20	Team 1?	20	(Crosstalk.)
21	TEAM 1: What is CDER?	21	DR. WHYTE: That's \$3100.
22	DR. WHYTE: What does it stand for?	22	What about Team 2?
	Page 142		Page 144
1	TEAM 1: Center for Drug Evaluation and	1	
		1	
	TEAM 1: Center for Drug Evaluation and		TEAM 2: We're getting all in. DR. WHYTE: All in, 1100.
2 3	TEAM 1: Center for Drug Evaluation and Research.	2	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100.
2 3 4	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the	2 3	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3?
2 3 4	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very	2 3 4	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in.
2 3 4 5	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good.	2 3 4 5	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really.
2 3 4 5 6	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again.	2 3 4 5 6	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4?
2 3 4 5 6 7 8	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100.	2 3 4 5 6 7 8	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100.
2 3 4 5 6 7 8 9	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100.	2 3 4 5 6 7 8 9	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might
2 3 4 5 6 7 8 9	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer	2 3 4 5 6 7 8 9	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right.
2 3 4 5 6 7 8 9	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new	2 3 4 5 6 7 8 9 10 11	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too.
2 3 4 5 6 7 8 9 10 11 12	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective.	2 3 4 5 6 7 8 9 10 11	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little
2 3 4 5 6 7 8 9 10 11 12	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer?	2 3 4 5 6 7 8 9 10 11 12 13	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little
2 3 4 5 6 7 8 9 10 11 12 13	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct.	2 3 4 5 6 7 8 9 10 11 12 13	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever
2 3 4 5 6 7 8 9 10 11 12 13 14	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct. Team 2?	2 3 4 5 6 7 8 9 10 11 12 13 14	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever gets closest if it's not the right number. This percent of the 46 novel drugs CDER
2 3 4 5 6 7 8 9 10 11 12 13 14	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct. Team 2? TEAM 2: What is a clinical study?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever gets closest if it's not the right number. This percent of the 46 novel drugs CDER approved in 2017 used at least one expedited
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct. Team 2? TEAM 2: What is a clinical study? DR. WHYTE: That's correct. What is a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever gets closest if it's not the right number. This percent of the 46 novel drugs CDER approved in 2017 used at least one expedited
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct. Team 2? TEAM 2: What is a clinical study? DR. WHYTE: That's correct. What is a clinical trial, a clinical study?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever gets closest if it's not the right number. This percent of the 46 novel drugs CDER approved in 2017 used at least one expedited development and review method to speed the approval
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct. Team 2? TEAM 2: What is a clinical study? DR. WHYTE: That's correct. What is a clinical trial, a clinical study? Okay. Advocacy Cheat Sheet for 100. This	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever gets closest if it's not the right number. This percent of the 46 novel drugs CDER approved in 2017 used at least one expedited development and review method to speed the approval process.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct. Team 2? TEAM 2: What is a clinical study? DR. WHYTE: That's correct. What is a clinical trial, a clinical study? Okay. Advocacy Cheat Sheet for 100. This is one of the many ways patients and advocates can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever gets closest if it's not the right number. This percent of the 46 novel drugs CDER approved in 2017 used at least one expedited development and review method to speed the approval process. We'll give how many seconds? We won't show
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	TEAM 1: Center for Drug Evaluation and Research. DR. WHYTE: That's correct. What is the Center for Drug Evaluation and Research? Very good. Okay. Choose again. TEAM 1: Trials and Tribulations for 100. DR. WHYTE: Trials and Tribulations for 100. This drug evaluation study is designed to answer specific questions and discover if promising new treatments are safe and effective. Which team? Team 3. What's your answer? That's not correct. Team 2? TEAM 2: What is a clinical study? DR. WHYTE: That's correct. What is a clinical trial, a clinical study? Okay. Advocacy Cheat Sheet for 100. This is one of the many ways patients and advocates can be more involved in the FDA's drug evaluation and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	TEAM 2: We're getting all in. DR. WHYTE: All in, 1100. Team 3? TEAM 3: All in. DR. WHYTE: All in, 800; not really. Team 4? TEAM 4: 3100. DR. WHYTE: You're assuming everyone might get the answer wrong except you. Okay. All right. Team 3 could have tried that strategy, too. Let's see the final Jeopardy question, and then you'll write down your response on that little piece of paper in front of you. We'll give whoever gets closest if it's not the right number. This percent of the 46 novel drugs CDER approved in 2017 used at least one expedited development and review method to speed the approval process. We'll give how many seconds? We won't show the answer until we see their bids. We'll give

	EX and 1 ou. Keys to Effective Engagement	
	Page 145	Page 147
1	DR. WHYTE: This is exhausting.	1 of these meetings or you look online, a lot of
2	All right. Time up. Team 1? Don't show	2 people talk about the docket. And you might be
3	the answer yet. We're doing it like the real	3 thinking what's a docket, where is the docket, what
	Jeopardy.	4 does that mean? And we often say submit your
5	(Mr. Goetzel explains procedure.)	5 comments to the docket.
6	DR. WHYTE: Okay. We'll start with Team 3?	6 We're going to hear about how do you rock
7	All right.	7 the docket from John Wright not John Whyte, John
8	Team 3, what's your wager? Oh, you	8 Wright from the Division of Dockets Management.
	wagered what's your answer?	9 We actually have a dockets management division in
10	TEAM 3: Sixty-seven percent.	10 the commissioner's office. And a fun fact about
11	DR. WHYTE: I'm going to let us see all the	11 John is that he's been in the coldest the
	answers, and then we'll do it that way. Because	12 Alaskan interior in February and the
	otherwise, then the others won't know. Okay, 67.	13 hottest Death Valley, California in July; it
14	Team 4, what's your answer? Sixty.	14 really should be the opposite, John in one
15	Team 2?	15 year's time. So we will hear all you need to know
16	TEAM 2: A little different, 5 percent.	16 about submitting comments to the docket.
17	DR. WHYTE: Five? No, that's not right.	17 Presentation - John Wright
18	(Laughter.)	18 MR. WRIGHT: Well, good afternoon, everyone.
19	DR. WHYTE: You guys have a lot to learn.	19 I don't know how much you know about music history,
20	Team 1?	20 but this is kind of like the Monkeys trying to
21	TEAM 1: What is 44 percent?	21 follow Hendrix. So we'll see what we can do. Oh,
22	DR. WHYTE: Is that what you wrote down?	22 yeah, the temperature thing. That was about
22		
	Page 146	Page 148
	Tage 140	Tage 140
1	-	
	Okay, 44.	1 20 years ago. I was in the military. The cold
2	Okay, 44. And the answer?	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my
2 3	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they	 20 years ago. I was in the military. The cold 2 part was because they made me. The hot part was my 3 choice.
2 3 4	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right?	 20 years ago. I was in the military. The cold 2 part was because they made me. The hot part was my 3 choice. 4 So what do we do at dockets management? I'm
2 3 4 5	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of
2 3 4 5 6	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them	 20 years ago. I was in the military. The cold 2 part was because they made me. The hot part was my 3 choice. 4 So what do we do at dockets management? I'm 5 going to go through these and answer as many of 6 your questions as possible. But the biggest thing
2 3 4 5 6 7	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an
2 3 4 5 6 7 8	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to
2 3 4 5 6 7 8 9	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent.	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes.
2 3 4 5 6 7 8 9 10	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.)	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser
2 3 4 5 7 8 9 10 11	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60.	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great
2 3 4 5 6 7 8 9 10 11 12	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes.	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of
2 3 4 5 6 7 8 9 10 11 12 13	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not.
2 3 4 5 6 7 8 9 10 11 12 13 14	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause.	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause. (Applause.)	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's Office of the Commissioner, Office of the Executive
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause. (Applause.) DR. WHYTE: Team 3's still saying those	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's Office of the Commissioner, Office of the Executive Secretary, Division of Dockets Management. I hope
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause. (Applause.) DR. WHYTE: Team 3's still saying those didn't work or something. But good job, everyone.	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's Office of the Commissioner, Office of the Executive Secretary, Division of Dockets Management. I hope you know what FDA means. DDM is three teams.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause. (Applause.) DR. WHYTE: Team 3's still saying those didn't work or something. But good job, everyone. Good job.	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's Office of the Commissioner, Office of the Executive Secretary, Division of Dockets Management. I hope you know what FDA means. DDM is three teams. We've got the D&D team. That's Dockets and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause. (Applause.) DR. WHYTE: Team 3's still saying those didn't work or something. But good job, everyone. Good job. With that, we're going to talk about we	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's Office of the Commissioner, Office of the Executive Secretary, Division of Dockets Management. I hope you know what FDA means. DDM is three teams. We've got the D&D team. That's Dockets and Documents. They handle mostly tobacco dockets,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause. (Applause.) DR. WHYTE: Team 3's still saying those didn't work or something. But good job, everyone. Good job. With that, we're going to talk about we have numerous committees and panels to obtain	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's Office of the Commissioner, Office of the Executive Secretary, Division of Dockets Management. I hope you know what FDA means. DDM is three teams. We've got the D&D team. That's Dockets and Documents. They handle mostly tobacco dockets,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Okay, 44. And the answer? MR. GOETZEL: So what did Team 3 did they get it right? DR. WHYTE: They said 67. Oh, we don't have the slide with the answer? We're not showing them the answer? I want to look at my notes. The answer is and someone is going to win by only off by 1 percent 61 percent. (Applause.) DR. WHYTE: And I believe Team 4 said 60. TEAM 4: Yes. DR. WHYTE: All right. Team 4 is the winner. Congratulations. Let's give them all a round of applause. (Applause.) DR. WHYTE: Team 3's still saying those didn't work or something. But good job, everyone. Good job. With that, we're going to talk about we	 20 years ago. I was in the military. The cold part was because they made me. The hot part was my choice. So what do we do at dockets management? I'm going to go through these and answer as many of your questions as possible. But the biggest thing to remember is we do everything. If there's an administrative question for the FDA, it comes to us, and we read it and we determine where it goes. That includes everything from tin cans, to laser beams, to drugs. In fact, I have spent a great deal of time in the past week on the standard of identity for tuna fish believe it or not. We are made up of three teams. First of all, the acronym's at the top. The OCOES, that's Office of the Commissioner, Office of the Executive Secretary, Division of Dockets Management. I hope you know what FDA means. DDM is three teams. We've got the D&D team. That's Dockets and Documents. They handle mostly tobacco dockets,

	Page 149		Page 151
1	Room. The Public Reading Room does a live comment	1	ones I'm thinking of involve drugs that are
	management, and they handle walk-in visitors. All		recognized as generally safe and not going to
	of you are welcome to be a walk-in visitor should		bother anybody. Well, every time that gets
	you need to submit anything to Dockets. But the		challenged or questioned, something gets added to
	most important team is mine just because we do most		that docket, so they will never close.
	of the stuff that requires contact with people	6	Also, we do information requests. Right
	outside of our office. So that's the biggest thing	-	here, it says "FOIA requests," but not all of our
	to remember.		requests are FOIA. Some of them are far less
9	This is a small list of things we do. Here		laborious. For example, if you just walk into the
	it says, "Petitions to the government." Now that		office, you can take care of a FOIA request in
	can take many forms. Typically, what we see from		20 minutes instead of 20 days because we are pretty
	your community are petitions related to drugs or		responsive, and of course we handle comments.
	abbreviated applications for drugs and things of	13	Now, when I say "comments," I'm talking
	that nature. Sometimes we see advisory petitions.	14	about every single comment for every single
	For example, I got one from the country of Spain		activity the FDA might do on a given day. Now, if
	asking about the identity of a cheese and wanting		you can imagine what CDER, just CDER, does in a
	our advice and things like that.		day, it's quite a bit. There are 13 centers like
18	How many of you read the Federal Register	18	
19	regularly? Good. We're responsible for getting	19	Friday no, it was last week, the docket for
	the things from the FDA to the Federal Register.	20	flavoring in tobacco was opened, and it garnered
21	For example, if you look in the FR and you get an	21	3,000 comments in two days, and there are two
22	invitation to come visit the FDA for an advisory	22	people that manage those. So you can imagine we've
	Page 150		Page 152
1	Page 150 committee meeting, that will have been submitted to	1	Page 152 got a lot of things that we have to do, but that
	-		
	committee meeting, that will have been submitted to the Office of Federal Record by us.		got a lot of things that we have to do, but that
2 3	committee meeting, that will have been submitted to the Office of Federal Record by us.	2 3	got a lot of things that we have to do, but that said, we are still extremely responsive.
2 3 4	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something,	2 3 4	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just
2 3 4 5	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the	2 3 4 5	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to
2 3 4 5 6	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA	2 3 4 5 6	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to
2 3 4 5 6 7	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can	2 3 4 5 6	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a
2 3 4 5 6 7 8	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or	2 3 4 5 6 7 8 9	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't
2 3 4 5 6 7 8 9	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I	2 3 4 5 6 7 8 9	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an
2 3 4 5 7 8 9 10 11	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example,	2 3 4 5 6 7 8 9	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you.
2 3 4 5 6 7 8 9 10 11 12	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and	2 3 4 5 6 7 8 9 10 11 12	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of
2 3 4 5 6 7 8 9 10 11 12 12	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long	2 3 4 5 6 7 8 9 10 11 12 13	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally
2 3 4 5 6 7 8 9 10 11 12 13 13	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's	2 3 4 5 6 7 8 9 10 11 12 13	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a
2 3 4 5 6 7 8 9 10 11 12 13 14 15	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's really similar, and they'll say, "Hey. Let me use	2 3 4 5 6 7 8 9 10 11 12 13 14 15	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a piece of paper for the FDA to read it. Right there
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's really similar, and they'll say, "Hey. Let me use this drug," and they'll petition us for that sort	2 3 4 5 6 7 8 9 10 11 12 13 14 15	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a piece of paper for the FDA to read it. Right there where it says, "content," that's what everybody
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's really similar, and they'll say, "Hey. Let me use this drug," and they'll petition us for that sort of thing.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a piece of paper for the FDA to read it. Right there where it says, "content," that's what everybody looks at, at a citizen petition, the first time it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's really similar, and they'll say, "Hey. Let me use this drug," and they'll petition us for that sort of thing. We also keep records of all these things	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a piece of paper for the FDA to read it. Right there where it says, "content," that's what everybody looks at, at a citizen petition, the first time it comes to our office. They do not care what it's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's really similar, and they'll say, "Hey. Let me use this drug," and they'll petition us for that sort of thing. We also keep records of all these things going back until I think 1957, and many of these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a piece of paper for the FDA to read it. Right there where it says, "content," that's what everybody looks at, at a citizen petition, the first time it comes to our office. They do not care what it's about. It can be, hey, this petition is going to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's really similar, and they'll say, "Hey. Let me use this drug," and they'll petition us for that sort of thing. We also keep records of all these things going back until I think 1957, and many of these are still active. In fact, some CDER dockets	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a piece of paper for the FDA to read it. Right there where it says, "content," that's what everybody looks at, at a citizen petition, the first time it comes to our office. They do not care what it's about. It can be, hey, this petition is going to save the world. All we care about is that right
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	committee meeting, that will have been submitted to the Office of Federal Record by us. If you want to ask the FDA to do something, and it is administrative, what that means is the answer for your question or the action the FDA takes is already decided by the law. Then you can send us a petition, which will compel the FDA or ask the FDA, depending upon the law you are citing, to do or not do something about a drug. The most common types of petitions that I see are for suitability petitions. For example, somebody will want to market a generic drug, and they won't want to go through the whole, long process. So they'll find another drug that's really similar, and they'll say, "Hey. Let me use this drug," and they'll petition us for that sort of thing. We also keep records of all these things going back until I think 1957, and many of these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	got a lot of things that we have to do, but that said, we are still extremely responsive. Now, petitions, this is what I was just discussing with you here. Some of you may want to do this; some of you won't. But if you do want to submit a petition, you can call us first. Before you go to all the work, if you've never done a petition before, please just call us. A lot of your entities are very small and you can't necessarily afford a regulatory counsel or an attorney, we will help you. For example, we will give you copies of these regulations. 1020, that's generally administrative regulations, what has to be on a piece of paper for the FDA to read it. Right there where it says, "content," that's what everybody looks at, at a citizen petition, the first time it comes to our office. They do not care what it's about. It can be, hey, this petition is going to save the world. All we care about is that right there.

	ER and You: Keys to Effective Engagement		April 3, 20
	Page 153		Page 1
1	set it up so that it gets accepted without any	1	very helpful for a non-public affairs office. That
2	difficulties. That includes more complex things.	2	said, they cannot speak for the FDA. They will
3	For example, if you want to tell the FDA to stop	3	route you to the right person. A couple of people
4	doing something, it requires additional steps that	4	in my office are me and that's me and of
5	we will walk you through.	5	course, Dynna Bigby. We are always available. We
6	Now, back to comments here, you may be very	6	check our emails compulsively, things like that.
7	interested in comments once you open a docket. A	7	Do you have any questions? I'm going to
в	lot of times a special interest group, for example,	8	back it up here in case you need to make notes.
9	may have an issue for which they've submitted a	9	Any questions?
0	petition, and that issue may garner a lot of public	10	(No response.)
L	interest that that group may not be aware of. So	11	MR. WRIGHT: Wow! I must have been
2	it's an opportunity for them to gauge public	12	thorough. That's excellent. Well, thank you very
3	interest, public opinion, and things of that	13	much. Again, if you do have any questions or if
ł	nature, so the comments are very, very important to	14	anything comes up and you can think of a way that
5	us.	15	we might be able to assist you, please just let me
5	Furthermore, we actually do read them all.	16	know.
7	The comments are collected, deduplicated,	17	(Applause.)
в	categorized, and sent directly to the human beings	18	DR. WHYTE: Well, thank you. Now we're
9	who actually make the decisions, so they're not	19	going to hear from a panel of my FDA colleagues,
С	wasted. And that includes comments that may be	20	and Rea Blakey is going to introduce them. Rea is
L	submitted electronically or submitted by very	21	the communications policy strategist and engagement
2	concerned citizens who do it 10, 15 times a day.	22	team lead at PASE. And a fun fact about Rea is
	Page 154		Page 1
L	Page 154 We still read them all. And believe me, there are	1	Page 1 that her name R-E-A was once used as the
2	We still read them all. And believe me, there are	2	that her name R-E-A was once used as the
2	We still read them all. And believe me, there are many, many citizens who are very passionate about	2 3	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The
2 3	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard.	2 3 4	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow
23	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a	2 3 4 5	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going
2 3 4 5 5	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do	2 3 4 5 6	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues
23157	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are	2 3 4 5 6 7	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So
2 3 1 5 7 3	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes	2 3 4 5 6 7	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left
23155739	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets	2 3 4 5 6 7 8	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita.
23457390	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you	2 3 4 5 6 7 8 9	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey
234557390L	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we	2 3 4 5 6 7 8 9	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids
234557390L2	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do	2 3 4 5 6 7 8 9 10 11	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes!
234557390123	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will	2 3 4 5 6 7 8 9 10 11 12 13	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.)
2345573901234	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will just get posted automatically otherwise.	2 3 4 5 6 7 8 9 10 11 12 13	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.) MS. BLAKEY: Well, let's not be so formal,
23455739012345	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will just get posted automatically otherwise. So this is the very, very important screen	2 3 4 5 6 7 8 9 10 11 12 13 14	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.) MS. BLAKEY: Well, let's not be so formal, ladies. Come on up, and I'll introduce you once
234567890123456	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will just get posted automatically otherwise. So this is the very, very important screen right here just because I like it, and it's made	2 3 4 5 6 7 8 9 10 11 12 13 14 15	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.) MS. BLAKEY: Well, let's not be so formal, ladies. Come on up, and I'll introduce you once you get up here. There are four panelists. We
2 3 4 5 5 7 3 9 0 1 2 3 4 5 5 7	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will just get posted automatically otherwise. So this is the very, very important screen right here just because I like it, and it's made out of I think they're Morgen. Anyhow, this is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.) MS. BLAKEY: Well, let's not be so formal, ladies. Come on up, and I'll introduce you once you get up here. There are four panelists. We have one other member who is right now involved in
2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will just get posted automatically otherwise. So this is the very, very important screen right here just because I like it, and it's made out of I think they're Morgen. Anyhow, this is where I want you all to get your pens and papers	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.) MS. BLAKEY: Well, let's not be so formal, ladies. Come on up, and I'll introduce you once you get up here. There are four panelists. We have one other member who is right now involved in a conversation with the commissioner. She will be
2 3 3 1 5 5 7 3 9 0 1 2 3 1 5 5 7 3 9	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will just get posted automatically otherwise. So this is the very, very important screen right here just because I like it, and it's made out of I think they're Morgen. Anyhow, this is where I want you all to get your pens and papers out because you actually get our phone number and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.) MS. BLAKEY: Well, let's not be so formal, ladies. Come on up, and I'll introduce you once you get up here. There are four panelists. We have one other member who is right now involved in a conversation with the commissioner. She will be joining us, hopefully before we all conclude. But
2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	We still read them all. And believe me, there are many, many citizens who are very passionate about their voice being heard. Also important to note, if you submit a comment, it will be public. The only time we do not post comments publicly is if they are specifically stated as confidential. That includes everything that you might send to Dockets Management. It will be posted in public. If you want it to be otherwise, again, please call, and we will make arrangements for you to be able to do that. That is very important because stuff will just get posted automatically otherwise. So this is the very, very important screen right here just because I like it, and it's made out of I think they're Morgen. Anyhow, this is where I want you all to get your pens and papers out because you actually get our phone number and email, and I want you to use them. The main phone	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	that her name R-E-A was once used as the answer in a New York Times crossword puzzle. The clue was CNN medical correspondent, and I'll allow Rea to introduce my colleagues. And I'm just going to say, the last time I saw two of my colleagues was at a snowstorm in Philadelphia, and they left me there. I had to come back the next day. So nice to see you again, Andrea and Pujita. Discussion Panel - Rea Blakey MS. BLAKEY: Oooh. I think the young kids call that a burn. Yikes! (Laughter.) MS. BLAKEY: Well, let's not be so formal, ladies. Come on up, and I'll introduce you once you get up here. There are four panelists. We have one other member who is right now involved in a conversation with the commissioner. She will be joining us, hopefully before we all conclude. But I think you're really going to enjoy the

	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 201
	Page 157		Page 159
1	has to do with patient engagement. I'm in	1	months ago, I was actually in Switzerland and went
	Professional Affairs and Stakeholder Engagement,		to the top of Mount Titlis in the Swiss Alps. And
	but of course across the FDA are other offices and		there, actually they have the highest elevation
	agencies that work in the same general space and		suspension bridge in Europe, so it's over 10,000
	then have some other offshoots of things that they		feet up there. So I walked across that.
	do.		Definitely, it was a breathtaking view, but my
7	So we're going to discuss some of that today		heart was pounding. And I am afraid of heights as
	and also talk about what we hope will be an		well, so that makes it even worse, but it was
	interesting future in regards to patient engagement		great.
	in general. Obviously, transparency is a major	10	I'll be talking to you about FDA's
	issue for us not only here at CDER but across the		externally-led, patient-focused drug development
	FDA, and really if you think about it, throughout		meetings and the opportunity for stakeholders.
	the entire government. The public deserves to know	13	(Brief pause.)
	what's going on. We really try to address that.	14	MS. BLAKEY: In a previous life, I would
	Certainly at PASE, you've heard about the		have said that happens on live TV, however I hope I
15 16			
	request a meeting on drugs opportunity that you		put the batteries in the right way. I feel a buzz. I think it's happening. Let's test it out. Sorry
	have. If you send in your requests, they will come		
	to my office, and we will triage them, and we will	_	about that.
	do our best to make sure that you get your voice	19	MS. VAIDYA: Perfect. Great.
	heard. But just in case, there are other avenues,	20	Before I get started and jump into our
	and that's really what this panel discussion is		initiative, I just want to talk about let's define
22	about today, the other avenues that could be	22	what patient-focused drug development is. We're
	Page 158		Page 160
1	available for you to get your voice heard because,	1	not thinking about FDA's initiative, but in
2	again, we want to hear from you. We want you to	2	general.
3	have an informed opportunity to inform our process	3	Patient-focused drug development, as we
4	because, ultimately, we work for you.	4	think about it here and as we define it, is a
5	So thank you again for coming. I probably	5	systematic approach to help ensure that patients'
6	should have said that first because it's important	6	experiences, perspectives, needs, and priorities
7	that you're in the room with us to know that we're	7	are captured and meaningfully incorporated into
8	working on your behalf.	8	drug development and evaluation. This is a
9	I will introduce each of our panelists just	9	definition we're really moving forward with. It's
10	as they're about to give their presentations. I	10	a definition that we've included in a glossary that
	will start with Pujita, who I have to say I'm	11	we're coming out with in June. It's going to be
	curious about the snowstorm story, but if you don't		part of that glossary, and really, this is the
	have time, we'll let it go, but maybe you could		essence of it.
	fill us in a little bit. Pujita is the acting	14	So keeping that definition in mind, I want
	director of Decision Support and Analysis Team, and		to talk really briefly about FDA's patient-focused
	that's in the Office of Strategic Programs.		drug development, how it came about, and then jump
17	Pujita, welcome.	17	into that externally-led piece. Back in 2012, we
18	Presentation - Pujita Vaidya	18	in the FDA recognized the need to systematically
19	MS. VAIDYA: Hi, Rea. Thank you so much.		collect the patient's perspective. Patients are
20	As Rea mentioned, I'm in the Office of		
	Strategic Programs. And I know I forgot to send		unique opportunity and way to provide their input
	you a fun fact, but I've come with one. So a few		that could inform drug development.

CD	d and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 2018		
	Page 161		Page 163		
_	Collegation that is using from 2010 to 2017				
1	So keeping that in mind, from 2012 to 2017,		want them to be in the audience, but they are		
	what we did was we kicked off the Patient-Focused		really typically in listening mode because it is		
	Drug Development Initiative where we had 24		really giving a platform to the patients and		
	disease-specific meetings to really provide a		caregivers.		
	platform for patients and caregivers and other	5	One thing I always like to say is the		
	patient advocates to come to the FDA and tell us		FDA-led meetings, we did 24 meetings with a group		
	how it feels to live with their condition.		of only five of us, so we understand that it can be		
8	What happened during that time is that		very resource intensive. And we just want folks to		
	around 2015, we really started seeing and growing		think about if you decide to do one of these		
	external interest and expanding the efforts. As I	10			
	mentioned, as part of the commitment, we only had		a stand-alone meeting. There are several groups		
	24 meetings. That's what we could commit to with		that have annual conferences, or there may be a		
	our resources. But honestly, there are so many		scientific workshop that's being planned. So it		
	diseases out there, so what we started to do is		could be part of those conferences as a session		
	actually welcome patient organizations to identify	15	maybe. It doesn't even have to be a full-day		
	and organize their own patient-focused	16	meeting. Maybe it's something that you have two		
	collaborations to generate the similar type of	17	hours where you engage with the patients.		
	inputs that we were doing here at our FDA-led,	18	So there are various options for those. And		
	patient-focused meetings.	19	what we recommend is actually that we have the		
20	These meetings are truly just to provide an	20	FDA-led meetings, and that can really serve as a		
	important opportunity for patients, caregivers, and		model for you as you're thinking about identifying		
22	other patient representatives to come and talk	22	the disease area that you want to have a meeting		
	Page 162		Page 164		
1	Page 162 about subjects that matter most to them, impact on	1	Page 164 on. We have some criteria laid out that's on our		
2	about subjects that matter most to them, impact on	2	on. We have some criteria laid out that's on our		
2	about subjects that matter most to them, impact on daily life, current treatment options, and talk	2 3	on. We have some criteria laid out that's on our website, thinking about the discussion topics to		
2 3 4	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden.	2 3 4	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the		
2 3 4 5	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up	2 3 4 5	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we		
2 3 4 5 6	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while	2 3 4 5 6	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you		
2 3 4 5 6 7	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings	2 3 4 5 6 7	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a		
2 3 4 5 6 7 8	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so	2 3 4 5 6 7 8	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very		
2 3 4 5 6 7 8 9	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that	2 3 4 5 6 7 8 9	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try		
2 3 4 5 7 8 9	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say	2 3 4 5 6 7 8 9	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the		
2 3 4 5 7 8 9	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so	2 3 4 5 6 7 8 9	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've		
2 3 4 5 6 7 8 9 10 11 12	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting.	2 3 4 5 6 7 8 9 10	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've		
2 3 4 5 6 7 8 9 10 11 12 13	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about	2 3 4 5 6 7 8 9 10 11 12 13	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we		
2 3 4 5 6 7 8 9 10 11 12 13 14	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to	2 3 4 5 6 7 8 9 10 11 12 13 14	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting		
2 3 4 5 6 7 8 9 10 11 12 13 14	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to keep in mind? As I mentioned, the key participants	2 3 4 5 6 7 8 9 10 11 12 13 14 15	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting deliverables such as actual Web recordings, transcripts, and really some type of summary		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to keep in mind? As I mentioned, the key participants and the folks that we really want to hear from at	2 3 4 5 6 7 8 9 10 11 12 13 14 15	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting deliverables such as actual Web recordings, transcripts, and really some type of summary		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to keep in mind? As I mentioned, the key participants and the folks that we really want to hear from at these meetings, whether it's led by FDA or it's led	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting deliverables such as actual Web recordings, transcripts, and really some type of summary report, let's say, for folks in the future. If		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to keep in mind? As I mentioned, the key participants and the folks that we really want to hear from at these meetings, whether it's led by FDA or it's led by patient groups, is really the patients, patient	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting deliverables such as actual Web recordings, transcripts, and really some type of summary report, let's say, for folks in the future. If they want to refer back to the meeting, the summary reports can really serve as a really good resource		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to keep in mind? As I mentioned, the key participants and the folks that we really want to hear from at these meetings, whether it's led by FDA or it's led by patient groups, is really the patients, patient representatives, and patient advocates. So that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting deliverables such as actual Web recordings, transcripts, and really some type of summary report, let's say, for folks in the future. If they want to refer back to the meeting, the summary reports can really serve as a really good resource		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to keep in mind? As I mentioned, the key participants and the folks that we really want to hear from at these meetings, whether it's led by FDA or it's led by patient groups, is really the patients, patient representatives, and patient advocates. So that being said, all of the other folks, such as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting deliverables such as actual Web recordings, transcripts, and really some type of summary report, let's say, for folks in the future. If they want to refer back to the meeting, the summary reports can really serve as a really good resource for us here at the FDA and for other stakeholders		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	about subjects that matter most to them, impact on daily life, current treatment options, and talk about the treatment burden. With that, what we did was we opened this up to the external groups. And while FDA definitely we attend these external meetings that are hosted by the patient organization, so it's truly your meetings. Any deliverable that comes out of it or the meeting itself we really say is not considered FDA's sponsored or indoor, so it's truly just your meeting. Now I'd like to go to let's think about planning for this meeting. What are some things to keep in mind? As I mentioned, the key participants and the folks that we really want to hear from at these meetings, whether it's led by FDA or it's led by patient groups, is really the patients, patient representatives, and patient advocates. So that being said, all of the other folks, such as regulatory and federal agencies, including FDA,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	on. We have some criteria laid out that's on our website, thinking about the discussion topics to focus on and what we've typically focused on, the types of questions we've asked, the format that we use. We always use this unique format that you wouldn't typically see here at the FDA where it's a facilitator-led large group discussion. It's very much interactive. We go into the audience and try to get more perspectives from folks in the audience. There's a polling similar to what you've seen today and an interactive webcast. And what we like to see from these are really meeting deliverables such as actual Web recordings, transcripts, and really some type of summary report, let's say, for folks in the future. If they want to refer back to the meeting, the summary reports can really serve as a really good resource for us here at the FDA and for other stakeholders as well.		

	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 2018
	Page 165		Page 167
1	ask that you submit a letter of intent to CDER's	1	meetings, if you do conduct an externally-led
	Office of Strategic Programs. That's our office		meeting and you have a summary report, we recently
	that I'm in. Our team is really here to serve as a		in January launched an external resources page
	resource for you, answer any questions, and help		where we're actually housing those reports. So we
	you as you start planning the meetings, so we		ask that you house it on your website, and we're
	really are here to help.		linking to those reports so it can be available on
7	As I mentioned earlier, we understand it is		our page as well so that we're also sharing the
	a resource-intensive effort, but sometimes you may		information and making it available for folks.
			-
	actually have the people that you need within your		This is just a glimpse of that. If you search
	organizations. A meeting planner may not always be		"external resources" or "information," you can get
	necessary or full on-conference organizers because		more information on this.
	we realize that does cost a lot of money there.	12	With that, I will turn it over to Andrea.
	And honestly, at the end of the day, active		Thank you.
	community outreach is very important for these	14	MS. BLAKEY: I just wanted to mention that
	meetings because you want to be able to get the		we are actually interested in your questions and
	patients and caregivers to ensure a representative		comments after the speakers, so we'll hear the
	group. So we really rely on patient groups and		presentations first. We can have a little dialogue
18	organizations that are out there to get patients in	18	among ourselves, but if you're really eager to ask
19	the room for our FDA-led meetings and for your own	19	questions, we're certainly open to hearing from
20	meetings. Obviously, you have more of the contacts	20	you. And there are a few small white cards on each
21	with these groups, so it's even better.	21	table just in case maybe you want to write it down
22	At the end of the day, we do want to be	22	while you're thinking of it, and then you can ask
	Page 166		Page 168
1	-	1	Page 168
	Page 166 respectful of the time of patients and their caregivers, so we really need to think about is it	1	-
2	respectful of the time of patients and their	2	it later.
2 3	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have	2 3	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact.
2 3	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this	2 3 4	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let
2 3 4 5	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is	2 3 4 5	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's
2 3 4 5	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important.	2 3 4 5 6	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office
2 3 4 5 6 7	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really	2 3 4 5 6 7	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you,
2 3 5 6 7 8	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and	2 3 4 5 6 7 8	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all
2 3 4 5 6 7 8 9	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic	2 3 4 5 6 7 8 9	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers.
2 3 4 5 6 7 8 9	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can	2 3 4 5 6 7 8	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea?
2 3 4 5 6 7 8 9 10	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about	2 3 4 5 6 7 8 9 10	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms
2 3 4 5 6 7 8 9 10 11 12	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for	2 3 4 5 6 7 8 9 10 11 12	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I
2 3 4 5 7 8 9 10 11 12 13	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug	2 3 4 5 6 7 8 9 10 11 12 13	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something
2 3 4 5 6 7 8 9 10 11 12 13 14	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But	2 3 4 5 6 7 8 9 10 11 12 13 14	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after
2 3 4 5 6 7 8 9 10 11 12 13 14 15	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But more broadly, it can support drug development as	2 3 4 5 6 7 8 9 10 11 12 13 14 15	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after this is over.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But more broadly, it can support drug development as well by thinking about identifying areas of unmet	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after this is over. My name is Andrea Furia-Helms, and I'm with
2 3 4 5 7 8 9 10 11 12 13 14 15 16 17	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But more broadly, it can support drug development as well by thinking about identifying areas of unmet medical need in the population, identify and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after this is over. My name is Andrea Furia-Helms, and I'm with the patient affairs staff, newly established. My
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But more broadly, it can support drug development as well by thinking about identifying areas of unmet medical need in the population, identify and develop tools to assess the benefit of potential	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after this is over. My name is Andrea Furia-Helms, and I'm with the patient affairs staff, newly established. My fun fact is in November, I went to Ireland with my
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But more broadly, it can support drug development as well by thinking about identifying areas of unmet medical need in the population, identify and develop tools to assess the benefit of potential therapies, and raise awareness and channel	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after this is over. My name is Andrea Furia-Helms, and I'm with the patient affairs staff, newly established. My fun fact is in November, I went to Ireland with my husband on vacation, and we took archery lessons.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But more broadly, it can support drug development as well by thinking about identifying areas of unmet medical need in the population, identify and develop tools to assess the benefit of potential therapies, and raise awareness and channel engagement within the community.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after this is over. My name is Andrea Furia-Helms, and I'm with the patient affairs staff, newly established. My fun fact is in November, I went to Ireland with my husband on vacation, and we took archery lessons. The final challenge was to hit a balloon on the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	respectful of the time of patients and their caregivers, so we really need to think about is it really necessary. Is this the right time to have this meeting? What are we going to do with this information. So taking those into consideration is very important. Just final thoughts, these meetings really do strengthen the understanding of the disease and treatment burden, what we call the therapeutic context. This input from these meetings can support FDA staff as they're thinking about conducting their benefit-risk assessments for products under review or even while advising drug sponsors on their drug development programs. But more broadly, it can support drug development as well by thinking about identifying areas of unmet medical need in the population, identify and develop tools to assess the benefit of potential therapies, and raise awareness and channel	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	it later. I'm glad that I interrupted right before Andrea because she has an interesting fun fact. But because I'm being diplomatic, I'm going to let her share it with you. But I will say that there's also something really particular about her office that is new and should be of great interest to you, so I hope you'll pay really close attention to all of our speakers. Andrea? Presentation - Andrea Furia-Helms MS. FURIA-HELMS: Thank you, Rea. And I apologize for my voice. I have a little something going on, and we'll figure out what that is after this is over. My name is Andrea Furia-Helms, and I'm with the patient affairs staff, newly established. My fun fact is in November, I went to Ireland with my husband on vacation, and we took archery lessons.

ER and You: Keys to Effective Engagement		April 3, 2018
Page 169		Page 171
winner got to behead the loser, so that was fun.	1	patient participation and incorporating patient
-		experiences in the process. And we had a model. I
		had the great opportunity to spend a fellowship for
		a couple weeks at EMA, the European Medicines
		Agency, and they've had the Patient and Consumers'
-		Working Party for the last 10 years, where they
-		have organization representatives meet with the EMA
-		regularly to talk about regulatory discussions and
		patient engagement. Another model is NIH's COPR,
		the Council of Public Representatives, similarly
		meeting with the community and understanding their
-		needs and how they can participate more in
		biomedical research.
		The membership criteria, obviously patients
-		who have a personal disease experience, caregivers
		who support patients could be parents of children,
		a partner, spouse, family member, or friend who
		serve in a primary caregiving role, and then also
		representatives from groups that have either direct
		or indirect experience with diseases.
-		In December we opened the Request for
Collaborative. This is a collaborative forum with		Nominations, and on January 29th, it closed, and we
Page 170		Page 172
Page 170 the Clinical Trials Transformation Initiative, and	1	Page 172 received 200 nominations, more than expected but
		-
the Clinical Trials Transformation Initiative, and	2	received 200 nominations, more than expected but
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA	2 3	received 200 nominations, more than expected but pleasantly surprised. So currently we are
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient	2 3 4	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those	2 3 4	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage	2 3 4 5 6	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations.
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory	2 3 4 5 6 7	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes.	2 3 4 5 6 7 8 9	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a	2 3 4 5 6 7 8 9	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several	2 3 4 5 6 7 8 9 10 11	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a	2 3 4 5 6 7 8 9 10 11	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several	2 3 4 5 6 7 8 9 10 11 12 13	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's	2 3 4 5 6 7 8 9 10 11 12 13 14	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's something that comes up and we need to hear from	2 3 4 5 6 7 8 9 10 11 12 13 14	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to make sure we're including a broad perspective
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's something that comes up and we need to hear from you immediately. But it's really important that we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to make sure we're including a broad perspective that's not always the same voices every time we
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's something that comes up and we need to hear from you immediately. But it's really important that we hear from you as stakeholders on a regular basis.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to make sure we're including a broad perspective that's not always the same voices every time we have the patient engagement collaborative
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's something that comes up and we need to hear from you immediately. But it's really important that we hear from you as stakeholders on a regular basis. So we heard loud and clear we need to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to make sure we're including a broad perspective that's not always the same voices every time we have the patient engagement collaborative nominations. If you want more information, there
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's something that comes up and we need to hear from you immediately. But it's really important that we hear from you as stakeholders on a regular basis. So we heard loud and clear we need to establish some kind of forum to meet with you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to make sure we're including a broad perspective that's not always the same voices every time we have the patient engagement collaborative nominations. If you want more information, there has been a voice blog that was issued on
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's something that comes up and we need to hear from you immediately. But it's really important that we hear from you as stakeholders on a regular basis. So we heard loud and clear we need to establish some kind of forum to meet with you regularly and have conversations ongoing, and the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to make sure we're including a broad perspective that's not always the same voices every time we have the patient engagement collaborative nominations. If you want more information, there has been a voice blog that was issued on December 20th on the patient engagement
the Clinical Trials Transformation Initiative, and we're establishing an external group to come to FDA and meet with us regularly to talk about patient engagement and how we can enhance those experiences, engage better with you and you engage better with us, and to better learn the regulatory processes. Why are we establishing a patient engagement collaborative? There was an impetus for this. First and foremost, we listened. There was a docket that was opened, and there were several comments from stakeholders saying that we'd like to meet with FDA regularly, which is understandable. Sometimes we are in reactive move where there's something that comes up and we need to hear from you immediately. But it's really important that we hear from you as stakeholders on a regular basis. So we heard loud and clear we need to establish some kind of forum to meet with you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	received 200 nominations, more than expected but pleasantly surprised. So currently we are reviewing and looking at which members are meeting the criteria. So we have a selection committee right now reviewing those nominations. We hope to schedule the first inaugural meeting in late summer, early fall. And even though the comment period has closed and the nomination period has closed, that doesn't mean you won't have an opportunity. The membership will be two to three years staggered appointments, and we are looking for diverse perspectives to come in after the two or three-year appointments to come in and share their perspectives as well. We want to make sure we're including a broad perspective that's not always the same voices every time we have the patient engagement collaborative nominations. If you want more information, there has been a voice blog that was issued on
	winner got to behead the loser, so that was fun. As I mentioned, I'm from the patient affairs staff. We're in our infancy stages. We were just developed in December of 2017, and we work closely with the medical products centers. What we do is we work on cross-cutting issues. Each of the individual centers have their own patient engagement activities such as the patient-focused drug development meetings that are focused on drugs and biologics and Center for Devices, that are also focused on devices. But we work on cross-cutting issues, and we help coordinate and complement and enhance those types of patient-engagement activities where more than one medical product center might be involved. We report into the principal deputy commissioner for medical products and tobacco, which is part of the immediate office of the commissioner. I'm going to talk to you a little bit about the first initiative that came out of patient affairs, and that's the Patient Engagement	Page 169winner got to behead the loser, so that was fun.1As I mentioned, I'm from the patient affairs2staff. We're in our infancy stages. We were just3developed in December of 2017, and we work closely4with the medical products centers. What we do is5we work on cross-cutting issues. Each of the6individual centers have their own patient7engagement activities such as the patient-focused8drug development meetings that are focused on drugs9and biologics and Center for Devices, that are also10focused on devices. But we work on cross-cutting11issues, and we help coordinate and complement and12enhance those types of patient-engagement13activities where more than one medical product14center might be involved. We report into the15principal deputy commissioner for medical products16and tobacco, which is part of the immediate office17of the commissioner.18I'm going to talk to you a little bit about19the first initiative that came out of patient20affairs, and that's the Patient Engagement21

			I - /
	Page 173		Page 175
1	listening sessions, and this is to better	1	health programs coordinator, however, her office
2	understand the patient experience around diseases,		has recently changed, maybe in the last 24 hours or
	especially in rare diseases. So we created a		so, Salina. Maybe you could update us on that and
	memorandum of understanding with the National		share a fun fact.
	Organization of Rare Disorders. These are pilot	5	Presentation - Salina Miller
	listening sessions, so just a little bit of	6	MS. MILLER: I can't necessarily follow
	background. Medical officers during their review	-	Wonder Woman here, but I did try to pool my family
			members for a fun fact because I couldn't think of
	work, they will sometimes say I don't really		
	understand this particular disease and can you		anything myself. I'm full of fun, by the way.
	connect me with patients and caregivers so I can		Some of them I can share with you, but one I can't
	better understand the disease, around disease		share with you. One I will share is that my dad
	burden, treatment burden? What kind of activities		told me that he had applied for me to be the Indian
	are they limited to due to their disease and how		Gerber baby back in well, should I tell you back
14	can they improve their quality of life if a	14	when? But I'm still waiting on the response.
15	treatment were to be developed?	15	Yeah, so that's the fun fact.
16	So we would have these teleconferences and	16	As far as the office, I work within the
17	gather patients and caregivers to share their	17	Office of Health and Constituent Affairs, which is
18	experiences, and the review divisions find it very	18	within the Office of the Commissioner. Yesterday,
19	valuable and useful. So we're going to pilot	19	we announced that the patient representative
20	listening sessions with NORD, and we're going to	20	program will be piloted within the advisory
21	develop these in a certain therapeutic area.	21	committee oversight and management staff. So that
	Really, the goal is to demonstrate added value so		is starting as of yesterday for about four months,
	Page 174		Page 176
1	we can hopefully expand to other therapeutic areas.	1	and we're going to be working together to kind of
2	Right now we're in the process of deciding	2	leverage off of each other and learn more about
3	on what the pilot therapeutic area is, and again,	3	recruitment efforts, streamlines and things. So it
4	it would be a cross-cutting area so that it would	4	should be exciting, so I'm looking forward to that.
5	include all the medical product centers and the	5	The FDA patient representative program, it
	review divisions specific to that therapeutic area.	6	really began in the early or late '80s, early '90s,
	We're in the process of developing a process with	7	
	NORD for the listening sessions, and we're thinking	8	did roll into including cancer patient
	about including an educational component as well.		representatives, so oncology was a big part of the
10	I think it's important to have some kind of	10	program as well. And now it really is the flagship
	basic understanding in the regulatory process, and		program for patient representatives, which are
	I think workshops like this or even webinars and		considered special government employees to engage
	things, that might be helpful as a precursor for		with the agency in a formal process.
	joining a listening session. And then we're going	14	It's really a mechanism that provides
	to evaluate internal and external feedback, and		pathways for patients and caregivers to be an
	then develop recommendations on how we will move		active participant in what we do, provide a voice,
	forward.	17	that important voice, voices that we want to hear
18	So that's what I'm sharing with you today.	18	from in whatever decisions we make regulatory-wise,
	I'm happy to take questions after all the	19	and it really furthers the understanding of who we
20	presentations. Thank you.		are, and that's such an important part, and
21	MS. BLAKEY: Thank you.	21	provides a presence at the table for patients and
22	Salina Miller is our next speaker. She's a	22	caregivers.

υD	ER und Tou. Reys to Effective Engagement		
	Page 177		Page 179
1	We have about 200 FDA patient	1	that can be an issue, so we try to have that
2	representatives in the program constantly	2	conversation with them early on to really probe and
3	recruiting. These patient representatives	3	see what are their activities about and is there
4	collectively represent anywhere from 300 to 500	4	something that we can do, or a mechanism, or a
5	diseases, conditions, or device experiences. I've	5	waiver that we can use to make sure that they can
6	listed just a few of these on the slide. We are	6	be in the program.
7	continuing to recruit. We have areas in terms of	7	Great communication skills. I've had many
8	opioids, opioid use, naloxone use. Pain is always	8	conversations with patient rep candidates who are
9	something we're recruiting for; COPD. There's a	9	so excited to serve but yet when it comes to the
10	host of these that are listed online on the For	10	communications or if they are gun-shy speaking in
11	Patients website of the FDA page.	11	front of people, it can be a learning curve for
12	So what do we look for in becoming a patient	12	them. But of course commitment to serve, it is
13	representative? First, I should really, really	13	really important to emphasize the importance of how
14	emphasize that the agency looks to recruit based on	14	we rely on our patient reps to serve on committees
15	need. That's a very important thing to understand.	15	and to recognize that assignment as an important
16	We are constantly communicating with patient	16	aspect of serving.
17	groups, with patients and caregivers directly. And	17	Generally, patient reps intersect with us,
18	during those conversations, we are learning about	18	both in the drug and biologic development phase
19	what's in their communities, what's in their	19	early on in the process, as early as when we
20	pipeline; internal conversations with the divisions	20	receive an application. But really it's up
21	and the reviewers of what they're seeing; how can	21	to as Andrea says, it's up to the conversation
22	we forecast what's really needed in terms of	22	with the medical person or the reviewer really, who
	Page 178		Page 180
1	experiences so that we can start the recruitment		can give us kind of a clue into learning more about
2	process as early as possible.		a disease or condition so they can have these
3	In terms of being a patient rep, we look for		consultations with patient representatives early on
	certain things, first and foremost, the personal		throughout the process and get a sense of targets,
	experience with the disease or condition. It		or benefits and risks, or things that the patient
	doesn't necessarily have to be a patient. We also	6	is interested in sharing. That is the opportunity.
	understand there are certain situations we have to	7	There is also another area which would be
	ask for a caregiver to represent, maybe a minor or	8	the advisory committees. That stage is really an
9	someone who's unable to represent themselves.	9	important and significant part of the patient
10	Community awareness, it's significant;		representative program, and it provides the patient
	advocacy experience that is relevant to not just	11	
	their own experiences that they can share, but also		committee meeting surveying with other scientific
13	those of their community. That's a very important		members.
14		14	The advisory committee meetings, our patient
15			reps are generally considered as temporary voting
16	Some of our patient reps do like to delve into the		members. For each assignment, they are screened
17		17	for conflicts of interest for each assignment. The
18	doesn't necessarily have to be the case.	18	disciplines, as I said, are other scientific
19		10	
~~	Of course conflict of interest. This is an area that is growing. We know that patients are		members, and these committees are across all the medical product centers. On average, we have

- 20 medical product centers. On average, we have
- 21 anywhere from about 35, 40, to about 60 assignments 22 per year.

21 much more engaged in their communities. We also

22 know that there are areas of conflict of interest

CD	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 181		Page 183
1	Some of the other ways they can serve, they	1	rep.
	can serve as consultants, as I mentioned,	2	
	connecting with the divisions directly, having a	3	MS. MILLER: Sure.
	telecon with them, sharing their personal	4	MS. BLAKEY: Diane Maloney has pulled
	experiences and actually being privy to	5	herself away from very important duties at the
	confidential information. Workshops and symposiums		commissioner's office to join us today. And Diane
7	also are the growing activities for the patient		actually represents the Center for Biologics, so
	representatives. It's a little outside of their	8	she has a slightly different perspective but no
9	role as a patient representative, but they		less interesting than the other speakers.
10	certainly are very effective in those areas, and we	10	So welcome, Diane, and thank you for
	are continuing to use them.	11	joining.
12	So once they become a special government	12	
13	employee, what happens? We have patient reps who	13	
	have really no idea who we are, how we're	14	like to first say thanks to CDER generally, and Rea
	structured, and what are some of the activities.	15	as well, for including CBER in this workshop today.
16	So it is our job in this office to really get them		Sp I wanted to just give you a very high-level
	ready to serve. We do a very personalized FDA 101,		introduction to CBER, Center for Biologics
18	providing them background on the agency. We have	18	Evaluation and Research, and the work that we do
19	them engage with other more seasoned patient reps	19	involving patient engagement.
20	that are in the program. We describe how the	20	Oh, I did have a fun fact.
21	scenarios are for serving on an advisory committee	21	MS. BLAKEY: Please.
22	meeting, for example. We provide regular training	22	MS. MALONEY: I told Rea my fun fact is
	Page 182		Pogo 184
	Fage 102		Page 184
	webinars, where they're able to engage with		actually somewhat of a costly fact. I have three
	specialists here internally and can ask real		daughters, and all three of them got married within
3	questions of them.		eight months of each other, but it was fun, and
4	So it's a closed webinar, and they feel	4	memorable.
	comfortable to ask whatever questions they feel	5	,
	necessary. But they do have that resource, and we	6	, , , , , , , , , , , , , , , , , , ,
	do have resources online where we can provide	7	and unique, as are my children.
	patient reps with information firsthand. And also,	8	
	every year we have an annual workshop, and at the		hear from patients. It's very important. I'll
	workshop we have folks who come within the agency		tell you a little bit about the Center for
	with their expertise and are there typically for a	11	Biologics. This is a picture that was taken in
	day and a half, and they can engage with them. So	12	
	that's a real significant way that we engage with		the far end of the campus in one of the newest
	the patient reps, particularly within the new		buildings, and we have actually quite a lovely
	recruits.		atrium. So there we are, at least a lot of us,
16	Here's just a snapshot of last year's		taking a picture of many of the employees in CBER.
	workshop. It kind of gives you an idea of who's	17	I just wanted to let you know a message that
	all there. There are folks here from the agency	18	
	and also some of the new recruits from the FDA	19	, ,
	patient rep workshop. I did not include an email	20	
21	address, so it's fdapatientrepprogram@fda.hhs.gov in case you are interested in becoming a patient	21	

Foo CD	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 2018
	Page 185		Page 187
1	make. And we very much value engaging with	1	agency, it might be more appropriate to meet not
	patients and all that people do to contribute to,		just with one center but to meet with another
3	in our center, the development of biological	3	center or all three medical product centers
4	products in particular.	4	together for that particular disease. So I just
5	Within CBER, we actually have a number of	5	wanted to underscore that.
6	activities that we do with regard to patient	6	Some of the products that we regulate within
7	engagement. One of the things is increasing	7	the Center for Biologics are on this slide. We
8	awareness within our center. We have a number of	8	regulate vaccines, including preventive vaccines,
9	groups that we've formed to pull people from all	9	childhood vaccines, as well as some therapeutic
10	the various offices that we have. We have a	10	vaccines. There are some cancer vaccines,
11	patient engagement working group, and we have a	11	allergenic products. We regulate live
12	rare disease working group. All of our offices are	12	biotherapeutic products, or some people refer to
13	represented. We share information. We talk about	13	them as probiotics. We have many blood products,
14	outreach opportunities and what's going on with the	14	for instance, for a lot of bleeding disorders.
15	other centers and the commissioner's office as	15	We actually within our center regulate some
16	well, in patient engagement in general and rare	16	devices, so we regulate some devices that are used
17	diseases as well. That would be within the center.	17	to screen blood donors for infectious diseases.
18	In addition, we work very closely I work	18	You wouldn't want to take blood from someone who
19	with all my colleagues here in the commissioner's	19	might be infected with a disease, a virus, that
20	office, Center for Drugs, as well as the Center for	20	could be transmitted through blood. We also
21	Devices, on cross-cutting patient engagement	21	regulate tissues, so for instance, skin and bone
22	issues, and then of course external work as well	22	and cornea, as well as cellular products,
	Page 186		Page 188
1	with patient groups.	1	xenotransplantation products, and gene therapy. So
2			it's quite a range of products that we regulate.
3	patient-focused product development and drug	3	Now I will give you a high level of some of
	development is evolving over time, and it's been	4	the types of meetings that we have had that have
5	going in since as early as the 1980s, maybe before	5	involved patients. Salina has actually touched on
6	then I think with I was actually here in the	6	a lot of these. We have meetings where patients
7	late '80s with the AIDS patients. I think we	7	have been involved for specific products. So they
	learned a lot hearing from them and the value and		might come in especially in the
9	seeing things from all the various perspectives,	9	instance Salina talked about they might be
10	and then continuous as part of the Cures Act and	10	special government employees, so they could have
11	some of the provisions that I think people have	11	access to confidential information. And they might
12	presented today.	12	meet with one of our product offices at the
13	I just wanted to talk a little bit so you	13	investigational new drug level, where the sponsor
14	know we work, as I said, closely with CDER and,	14	is there as well. In addition, they might sit on
15	CDRH as well, and the commissioner's office. A	15	an advisory committee on specific issues that we're
16	number of patient groups are here not because they	16	dealing with, with regard to the particular
17	are looking at a particular product but because	17	product, or as we're reviewing a biologic's license
	they care about a particular disease. And the	18	application. So that would be the application for
	disease isn't necessarily there may be many	19	a product approval.
	different therapies or diagnostics that would be	20	In addition to product-specific meetings, we
	appropriate for that particular disease. And often		sometimes have issue-specific meetings or
22	when a patient group might want to meet with the	22	disease-specific meetings. For instance, we might
22			

CD	EK and You: Keys to Effective Engagement		Арги 5, 2018
	Page 189		Page 191
1	have an advisory committee meeting on a particular	1	Okay. Another question for you. How many
2	issue. For instance, one area we were dealing with	2	of you have considered having an externally-led
3	a couple years ago had to do with a risk assessment	3	PFDD meeting?
4	we did with regard to variant CJ, Creutzfeldt-Jakob	4	(Hands raised.)
	disease, and what risk, if any, there was to	5	
6	patients who received blood products. And we	6	response there. That's good, important.
	engaged with some of the patients in terms of how	7	
	best to communicate that risk in a way that was	8	the patient affairs staff; for example, the PECs?
	understandable and clear to folks.	9	
10	We also engage with patients at a variety of	10	MS. BLAKEY: Okay, a few more there. We
11	public meetings and workshops, some of which we	11	like to know who's in the audience.
	would sponsor, and then others that others sponsor	12	Anybody here a patient rep, has already
	and invite us to. In addition, we will meet with	13	worked with OHCA as a patient rep?
	patient organizations, similar to John's meetings	14	
	that they hold, and again, which can be with our	15	
	center as well. We sometimes have meetings where	16	meetings already with CBER?
	we meet, just our center, with various patient	17	
	groups.	18	
19	You've heard Pujita talk about the	19	you, Diane. We're going to get you a few more
20	patient-focused drug development meetings. CBER		folks.
	has been very involved in those as well. CBER led	21	One of the things that we discussed as a
	the vast majority of them. We led three of them I	22	group was what questions we thought might be key
	Page 190		Page 192
1	think but participated in many more of the internal	1	for you going forward knowing that we sort of work
2	ones. And in addition, we also have attended many	2	in this space internally, but how we see things
3	of the externally-led, patient-focused drug	3	evolving when it comes to patient engagement. And
4	development meetings and very much appreciate the	4	I'm going to skip to my last big question, which
5	invitations to do that and all that we've learned	5	is, five years from now, ladies, what do you think
6	from all the patients.	6	patient engagement will look like? Will it be
7	Those are just examples of the patient	7	radically different? Will we be sort of in this
8	engagement that we have had, and this is just our	8	space that we're still in and hoping for something
9	contact information on this slide should you want	9	new and adventurous? Or, unfortunately, do you
10	it. Thank you very much.	10	think we might be taking a few steps back if
11	MS. BLAKEY: Thank you very much. We can	11	there's some, I don't know, adventive technology?
12	live it up for a moment.	12	While that thought has rolled around in your head
13	I just want to get a gauge because I want to	13	for the last week or so, what have you come up
14	be mindful of the time, how many of you actually	14	with?
15	have questions that you cannot leave here today	15	Salina, I'm going to pick you first.
16	without asking of any of these panelists? Because	16	MS. MILLER: I have quite an extensive wish
17	I can condense our discussion, being mindful of the	17	list, so I'm not going to go through them. I think
18	time.	18	when we engage with patients, it's such a unique
19	(No response.)	19	conversation that the successes really the
20	MS. BLAKEY: No one absolutely, positively	20	conversation needs to change, and the conversations
21	has to ask a question before they leave here today?	21	are changing. Patients are much more engaged than
22	You're thinking about it. You're processing it.	22	they ever have. I've been in OHCA for five years,
		1	

	od and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 201
	Page 193		Page 195
1	and the complexities of the conversation are	1	not just what we do, but the whole development
	changing. Patients are recognizing who we are more		process.
	and are able to ask really poignant questions. So	3	So in five years, that's when the plan is to
	we have to be on top of our game and being a		have all of the guidances out, and we hope that
	resource for them.		we've given out all the information, that folks
6	I'd like to see that we are able to enhance		have to take that and be able to collect robust
_	our current strong platform when it comes to	-	data and patient experience data, as we call it,
	patient engagement with the program, particularly,		and either submit it to us in some cases we may
	and that we're able to think of novel ways that the		be the end user, but in a lot of cases it may be
	patients can particularly the ones in the		
	program are able to engage with the agency, and	11	
	we're seeing that trend already. Adcons and		something with it. I'm hopeful for the next five
	homework assignments with divisions are key, but	13	
	also thinking outside of that and having their		guidance out there, and hopefully that will be
	perspectives come in different ways I think is one		informative for everyone. Thanks.
	that I'd like to see over five years.	16	MS. BLAKEY: Diane, did you want to weigh in
17	MS. BLAKEY: Thank you.		on that?
18	Pujita, you're actually involved in writing	18	MS. MALONEY: Sure. I'll add as well. We
	some of the guidance for these things. What's on	19	certainly won't be moving backwards. I think that
	your plate for the next five years?	20	you'll see more and more FDA folks that are having
20	MS. VAIDYA: If the past is any indication,		direct contact with patients. I know just myself,
	if you think back to five years ago, as I said, in		l've had a lot more and learned so much just in the
	Page 194		Page 196
1	2012 when we started thinking about how do we get	1	last two years or so in terms of the involvement.
2	the patient's voice into this, how do we collect	2	And I agree with Pujita. Congress now has asked us
3	this, we've come a very long way in the past five		
4		3	to do some things, and we will do them. But I
	years. There's been so much that has happened.		to do some things, and we will do them. But I think we were committed to doing a lot of engaging
5	years. There's been so much that has happened. Now we know, we've learned that patients really	4	-
		4	think we were committed to doing a lot of engaging
6	Now we know, we've learned that patients really	4 5 6	think we were committed to doing a lot of engaging with patients as well.
6 7	Now we know, we've learned that patients really want to be active. They want to be at the table,	4 5 6 7	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it,
6 7 8	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that	4 5 6 7 8	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years,
6 7 8 9	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we	4 5 6 7 8	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what
6 7 8 9 10	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There	4 5 7 8 9	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do.
6 7 8 9 10 11	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are	4 5 7 8 9 10	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you.
6 7 8 9 10 11	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have	4 5 7 8 9 10 11	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea?
6 7 9 10 11	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going	4 5 7 8 9 10 11	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an
6 7 9 10 11 12 13 14	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on.	4 5 7 8 9 10 11 12 13	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff.
6 7 9 10 11 12 13 14 15	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on. Rea just mentioned the guidances. In the	4 5 7 8 9 10 11 12 13 14	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff. The opportunities are actually quite endless.
6 7 8 9 10 11 12 13 14 15 16	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on. Rea just mentioned the guidances. In the slide that Diane put up in the 21st Century Cures,	4 5 6 7 8 9 10 11 12 13 14 15	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff. The opportunities are actually quite endless. You're starting from scratch and really
6 7 8 9 10 11 12 13 14 15 16 17	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on. Rea just mentioned the guidances. In the slide that Diane put up in the 21st Century Cures, we have a series of guidances that we're going to	4 5 7 8 9 10 11 12 13 14 15 16	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff. The opportunities are actually quite endless. You're starting from scratch and really understanding what the needs of the patient
6 7 8 9 10 11 12 13 14 15 16 17 18	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on. Rea just mentioned the guidances. In the slide that Diane put up in the 21st Century Cures, we have a series of guidances that we're going to be putting out in the next five years. So it's really hoping that and this is to help guide the	4 5 7 8 9 10 11 12 13 14 15 16 17	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff. The opportunities are actually quite endless. You're starting from scratch and really understanding what the needs of the patient communities are, and that's what we're trying to do. We're trying to reach out and understand what
6 7 8 9 10 11 12 13 14 15 16 17 18 19	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on. Rea just mentioned the guidances. In the slide that Diane put up in the 21st Century Cures, we have a series of guidances that we're going to be putting out in the next five years. So it's really hoping that and this is to help guide the methodological way of collecting this type of	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff. The opportunities are actually quite endless. You're starting from scratch and really understanding what the needs of the patient communities are, and that's what we're trying to do. We're trying to reach out and understand what their needs are and where can we enhance patient
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on. Rea just mentioned the guidances. In the slide that Diane put up in the 21st Century Cures, we have a series of guidances that we're going to be putting out in the next five years. So it's really hoping that and this is to help guide the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff. The opportunities are actually quite endless. You're starting from scratch and really understanding what the needs of the patient communities are, and that's what we're trying to do. We're trying to reach out and understand what their needs are and where can we enhance patient engagement across the medical product centers.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Now we know, we've learned that patients really want to be active. They want to be at the table, and really, a lot of folks have been given that opportunity. As you hear all of us talk about, we want more of you to come take initiatives. There are several opportunities out there. There are areas where you're experts, where we may not have the expertise. So there's definitely a lot going on. Rea just mentioned the guidances. In the slide that Diane put up in the 21st Century Cures, we have a series of guidances that we're going to be putting out in the next five years. So it's really hoping that and this is to help guide the methodological way of collecting this type of patient input and for us to be able to take that	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	think we were committed to doing a lot of engaging with patients as well. So I think it's a journey. We've begun it, and I think it will continue. And in five years, it will be interesting to look back to see what we've achieved and then what more we have to do. Thank you. MS. BLAKEY: Andrea? MS. FURIA-HELMS: I think there is an opportunity for being a new office or a new staff. The opportunities are actually quite endless. You're starting from scratch and really understanding what the needs of the patient communities are, and that's what we're trying to do. We're trying to reach out and understand what their needs are and where can we enhance patient engagement across the medical product centers.

	EX and Tou. Reys to Effective Engagement		
	Page 197		Page 199
1	incorporating as much of your voices as possible	1	MS. FURIA-HELMS: Yes. The listening
2	where we can, and I think part of it comes from	2	sessions really are driven by review divisions
3	collaborating with the other centers.	3	wanting and have an interest in understanding
4	One of the things I do think that I hope to	4	typically a rare disease. They haven't had
5	see in the next five years is the evolving of the	5	experience with it, and they might have this need
6	patient experience data, the science around it. I	6	to better understand it in their review work.
7	think it's starting, and it's really not ripe yet,	7	They are also quickly turned around. Just
8	but I think it's developing. And I think with the	8	recently, we got one done within four weeks, so
9	guidances that Pujita's office is working on and a	9	it's something that's a teleconference. We can
10	lot of this whole new science that's being worked	10	reach out to advocacy organizations to help
11	on outside of FDA, I think there may be opportunity	11	identify exactly the patients we need to hear from
12	that in the future we can say that a listening	12	and the caregivers, and then even subgroups within
13	session or a patient-focused drug development	13	that patient community, and have those
14	meeting actually informed a regulatory decision,	14	teleconferences with specific questions that are
15	and we can actually correlate the two. So that's	15	coming from the review division so they can better
16	something I'm hoping for.	16	understand disease burden, quality-of-life issues,
17	Questions and Answers	17	and just how the disease impacts them on a daily
18	MS. BLAKEY: Ditto. Second that.	18	basis. And even, because it's typically around the
19	We just have a couple minutes. If you have	19	area of rare disease, how are they managing their
20	questions, now would be the time. We do have a	20	symptoms without any products on the market.
21	couple of people who can walk around with a	21	MS. KERKORIAN: That's always initiated by
22	microphone. Christine is there at the ready. If	22	[inaudible - off mic].
	Page 198		Page 200
1	you've written anything and maybe you don't want to	1	MS. FURIA-HELMS: Correct.
2	be the person to read it, you could hand it over to	2	MS. BLAKEY: If I might add, the listening
3	Christine.	3	sessions in particular, that word is key because,
4	Yes, please?	4	really, we're listening to hear what you have to
5	MS. KERKORIAN: I'm still not totally clear	5	say, but typically we're not necessarily
6	on the difference between the listening sessions	6	responding. You'll recall Sadhna's talk earlier
7	and the patient representative program and what the	7	about what FDA can and can't do. And there are
8	goals or objectives are of those two initiatives.	8	times when we want to glean information from you,
9	MS. MILLER: The patient representative	9	but we can't necessarily tell you why, or what it
10	program, we have to do some recruitment for the	10	is, or where some product might be in the review
11	program to make them special government employees.	11	process. So listening is key. It's typically more
12	It is a four-year term, and they're able to serve	12	of a little bit of a one-way type conversation,

- of a little bit of a one-way type conversation,
 - 13 though, we want the information so that we can
 - 14 apply it in some form or fashion.
 - 15 I do believe someone back here has a
 - 16 question, and then, ma'am, you'll be next.

FEMALE AUDIENCE MEMBER: Our organization 17

- 18 would like to plan a PFDD meeting as part of our
- 19 annual patient conference, so I have two questions.
- 20 How much lead time do we need to plan this sort of
- 21 meeting, and do members of CDER travel, or do we
- 22 need to hold the meeting within the DC, Virginia,

22 can think of, right?

21

13 in a different capacity. So they are really on

14 standby at any point that we want to have a

15 conversation with them that may involve some

18 can also participate in a listening session, but I

20 It could be the general public.

19 believe the listening sessions are outside of that.

That's really the primary distinction that I

16 confidential information. There is reimbursement 17 and some compensation for certain activities. They

CD	EK and Tou: Keys to Effective Engagement		April 3, 2010
	Page 201		Page 203
1	Maryland district?	1	programs, and how are the roles different?
2	MS. VAIDYA: Thank you for your question.	2	MS. FURIA-HELMS: Sorry if I wasn't clear on
3	To answer your first question, we do have a letter	3	that. The patient engagement collaborative is a
	of intent process, and in the guidelines that we		forum to talk generally about patient engagement,
	have set forth for that, we do ask that at least a		and understanding your experiences, and engaging
	one year's time headway would be nice. If you're		with FDA, and understanding our experiences so that
	planning a meeting right now let's say for April		we can better enhance our engagements with patient
	2019, or thinking about or considering something		community stakeholders, so general discussions.
	there, we ask that you actually start thinking	9	
	about submitting your letter of intent around this		probably tell you, it's specific to a medical
	time, this time of year.		product. They have to go through conflict of
12	Typically, the planning itself, I would say		interest to review that confidential information.
	from the experience that we have, it takes at least		With the patient engagement collaborative members,
	six months to plan one of these meetings to really		they're not screened. They're not special
	get it solid. So it's planning for that, and we		government employees. Conflict of interest is
	want to make sure that CDER, CBER, CDRH, all of our	16	considered during the selection process but not
	colleagues are aware of it so that they have enough	17	
	time to actually plan to attend these meetings as		employee. So anyone can be as long as you meet the
19	well.		criteria, which is similar to the patient rep
20	So your question about traveling, one of the		program. As long as you meet the criteria, you can
	other points that we have in our guidelines is that	21	nominate yourself or be nominated by someone else.
22	it will be much easier for FDA folks to attend the	22	MS. BLAKEY: If I could, just because we are
	Page 202		Page 204
_	Page 202		Page 204
	meeting if it is in the DC, Maryland, Virginia		short on time, and I apologize, ma'am, you have
2	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very	2	short on time, and I apologize, ma'am, you have your question still, we'll take it.
2 3	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will	2 3	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is
2 3 4	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to	2 3 4	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory
2 3 4 5	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage	2 3 4 5	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process
2 3 4 5 6	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you.	2 3 4 5	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you.
2 3 4 5 6 7	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have	2 3 4 5 6 7	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee
2 3 4 5 6 7 8	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just	2 3 4 5 6 7 8	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary
2 3 4 5 6 7 8 9	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time.	2 3 4 5 6 7 8 9	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that
2 3 4 5 6 7 8 9	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two.	2 3 4 5 6 7 8 9	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to
2 3 4 5 6 7 8 9 10 11	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant	2 3 4 5 7 8 9 10 11	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part,
2 3 4 5 6 7 8 9 10 11 12	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I	2 3 4 5 7 8 9 10 11	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public.
2 3 4 5 6 7 8 9 10 11 12 13	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a	2 3 4 5 6 7 8 9 10 11 12 13	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We
2 3 4 5 6 7 8 9 10 11 12 13	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in.	2 3 4 5 6 7 8 9 10 11 12 13 14	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much
2 3 4 5 6 7 8 9 10 11 12 13 14 15	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause
2 3 4 5 6 7 8 9 10 11 12 13 14 15	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the first question, I was a little confused on the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause for our panel?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause for our panel?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the first question, I was a little confused on the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause for our panel? (Applause.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the first question, I was a little confused on the difference between the patient engagement	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause for our panel? (Applause.) MS. BLAKEY: Thank you, ladies. Very
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the first question, I was a little confused on the difference between the patient engagement collaborative and the application process you're	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause for our panel? (Applause.) MS. BLAKEY: Thank you, ladies. Very
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the first question, I was a little confused on the difference between the patient engagement collaborative and the application process you're currently going through with the 200 applications	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause for our panel? (Applause.) MS. BLAKEY: Thank you, ladies. Very informative. Thank you all. Appreciate it. Audience Response Questions - Christopher Melton
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	meeting if it is in the DC, Maryland, Virginia area. That is ideal. However, if you have a very good webcast option or something, that will definitely help. But to try to get folks to actually be there in person, we do try to encourage planning in this area. Thank you. MS. BLAKEY: I apologize. I'm going to have to make this the last question or comment just because I promised I would be mindful of time. Whoops. Okay. We'll have two. You tell me, Christine. I'm sorry. I meant the lady right here with the red jacket. I apologize. If you really do want to ask a question, we'll try to squeeze that in. FEMALE AUDIENCE MEMBER: Similar to the first question, I was a little confused on the difference between the patient engagement collaborative and the application process you're currently going through with the 200 applications and the patient representative program where people	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	short on time, and I apologize, ma'am, you have your question still, we'll take it. FEMALE AUDIENCE MEMBER: My question is whether the general public can attend the advisory committee meeting. If we can, what's the process to apply to attend such a meeting? Thank you. MS. MILLER: Generally, advisory committee meetings are public. There's no necessary registration per se. We've had patient groups that have had registration for applications just to bring them to the meeting, but for the most part, the agency is open to the public. MS. BLAKEY: So we hope you'll come. We hope you'll all be there. Thank you all very much for your attention. How about a round of applause for our panel? (Applause.) MS. BLAKEY: Thank you, ladies. Very informative. Thank you all. Appreciate it. Audience Response Questions - Christopher Melton

	Page 205		Page 207
	-		-
	their clickers, I'll be going through the audience		it was very important for you to hear from others
	response questions. I'll be reading four questions		and what their experience has been, the good and
3	for everyone.	3	the bad.
4	Please evaluate the following sentence.	4	So I'm delighted to invite Alexandra Kruse
5	"Following the how to get your voice heard		and Phyllis Foxworth to come to the podium. We
6			asked them to talk about their experience in terms
	information and resources to request a meeting with		of interacting with the agency. Alexandra is the
	the FDA." Your choices are A, strongly agree; B,		research coordinator for the Platelet Disorder
	somewhat agree; C, neutral; D, somewhat agree; and		Support Association, and Phyllis is the vice
	then E, strong. So take a second and put your		president of the Advocacy, Depression, and Bipolar
11	answers, and we will tally the responses soon.	11	Support Alliance.
12	(Audience responds.)	12	Perhaps we'll start with Alexandra, and you
13	MR. MELTON: We have A, 63 percent. All	13	both come to the table really, the time is yours
	right, great. Now we'll move forward over to		to talk about your experience; we did not give any
	question number 2. "How long does a new drug	15	prepared remarks to them and then allow them to
	application take, also known as NDA, the approval		ask questions directly of you. But I really wanted
17	process typically take?" A, less than 6 months; B,	17	the time to be yours, and I appreciate you coming
18	approximately 6 to 10 months; C, approximately 1 to	18	and sharing your experience, the good and the bad.
19	4 years; D, an average of 12 years; or E, none of	19	Thank you.
20	the above.	20	Presentation - Alexandra Kruse
21	(Audience responds.)	21	MS. KRUSE: Thank you to the FDA and
22	MR. MELTON: The correct response is B,	22	especially to PASE for inviting me here to speak
	Page 206		Page 208
	Page 206		Page 208
	approximately 6 to 10 months, and we have		today on behalf of the Platelet Disorder Support
2	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next	2	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been
2 3	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know.	2 3	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia,
2 3 4	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly	2 3 4	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that
2 3 4 5	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently	2 3 4 5	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world.
2 3 4 5 6	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true;	2 3 4 5 6	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support,
2 3 4 5 6 7	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one.	2 3 4 5 6 7	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy
2 3 4 5 6 7 8	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.)	2 3 4 5 6 7 8	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as
2 3 4 5 6 7 8 9	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct	2 3 4 5 6 7 8 9	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved
2 3 4 5 6 7 8 9	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition	2 3 4 5 6 7 8 9 10	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work
2 3 4 5 6 7 8 9 10 11	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are	2 3 4 5 6 7 8 9 10 11	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more
2 3 4 5 6 7 8 9 10 11	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to	2 3 4 5 6 7 8 9 10 11 12	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards
2 3 4 5 6 7 8 9 10 11 12 13	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false.	2 3 4 5 6 7 8 9 10 11 12 13	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health.
2 3 4 5 6 7 8 9 10 11 12 13 14	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.)	2 3 4 5 6 7 8 9 10 11 12 13 14	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations
2 3 4 5 6 7 8 9 10 11 12 13 14 15	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.) MR. MELTON: The correct answer is A, true.	2 3 4 5 6 7 8 9 10 11 12 13 14	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations have an average staff of three people. Often they
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.) MR. MELTON: The correct answer is A, true. We've got 9 percent that will get it the next time,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations have an average staff of three people. Often they are caregivers of patients or they are patients
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.) MR. MELTON: The correct answer is A, true. We've got 9 percent that will get it the next time, right? Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations have an average staff of three people. Often they are caregivers of patients or they are patients themselves, making it difficult to prioritize
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.) MR. MELTON: The correct answer is A, true. We've got 9 percent that will get it the next time, right? Thank you. DR. WHYTE: Okay. That's not the right time	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations have an average staff of three people. Often they are caregivers of patients or they are patients themselves, making it difficult to prioritize initiatives on behalf of their patient population.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.) MR. MELTON: The correct answer is A, true. We've got 9 percent that will get it the next time, right? Thank you. DR. WHYTE: Okay. That's not the right time now, but we are in the home stretch. And I will 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations have an average staff of three people. Often they are caregivers of patients or they are patients themselves, making it difficult to prioritize initiatives on behalf of their patient population. PDSA has a staff of five full-time employees, and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.) MR. MELTON: The correct answer is A, true. We've got 9 percent that will get it the next time, right? Thank you. DR. WHYTE: Okay. That's not the right time now, but we are in the home stretch. And I will point out we have been very close to time. We've 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations have an average staff of three people. Often they are caregivers of patients or they are patients themselves, making it difficult to prioritize initiatives on behalf of their patient population. PDSA has a staff of five full-time employees, and I'm excited to share that engaging with the FDA has
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 approximately 6 to 10 months, and we have 42 percent. So we've got that marked for next year, and we'll know. Question number 3, "The FDA can publicly disclose the status of a drug product currently under review." Answer true or false, A being true; B being false. This is an easy one. (Audience responds.) MR. MELTON: Or maybe not. The correct answer is B, false. Now we're going to transition to question number 4. Drug manufacturers are required to report adverse events from a drug to the FDA, A being true; B being false. (Audience responds.) MR. MELTON: The correct answer is A, true. We've got 9 percent that will get it the next time, right? Thank you. DR. WHYTE: Okay. That's not the right time now, but we are in the home stretch. And I will 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	today on behalf of the Platelet Disorder Support Association. For 20 years, PDSA has been empowering patients with immune thrombocytopenia, or ITP, a rare autoimmune bleeding disorder that affects 9 out of 100,000 people around the world. Through education, advocacy, research, and support, the FDA has really encouraged rare disease advocacy organizations to make their voices heard, as 95 percent of rare diseases don't have an approved treatment and there are no cures, making the work that advocacy organizations do that much more important and improving a patient's journey towards better health. Furthermore, many rare disease organizations have an average staff of three people. Often they are caregivers of patients or they are patients themselves, making it difficult to prioritize initiatives on behalf of their patient population. PDSA has a staff of five full-time employees, and

	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 209		Page 211
1	collaboration with other advocacy organizations	1	clinical trials and product development as well as
2	that can help you learn best practices. This		help to construct a holistic picture of what it's
3	workshop has done a really great job at sharing how	3	like to live with a disease individually and as a
	patient groups can work with the FDA, so Phyllis	4	disease community, especially with regard to
5	and I are here to provide a bit of case studies and	5	quality-of-life data, which as we know sometimes is
6	to kind of hammer the point home.	6	the most important thing to patients. More
7	First I'd like to share with you a little	7	importantly, registries allow patients to share
8	bit about PDSA's journey in engaging with the FDA.	8	their stories making them active participants in
9	PDSA was founded 20 years ago by ITP patient Joan	9	research.
10	Young. At that time, there were few therapies	10	To help further inform PDSA as an advocacy
11	available to treat ITP, and the main treatment	11	group of what the FDA was looking for in regard to
12	choices were either really high doses of steroids	12	patient engagement, I attended three public
13	or surgical removal of the spleen, so neither a fun	13	workshops: Roadmap for Engaging with FDA CDER;
14	option.	14	CDER's Rare Diseases Public Workshop; and
15	Joan started the organization like many	15	Patient-Focused Drug Development: Collecting
16	other advocacy organizations by empowering ITP	16	Comprehensive and Representative Input. Whether
17	patients through medical education and providing	17	today is your first workshop or your 15th, you know
18	support forums for patients to share their stories.	18	that public workshops are a collaborative effort
19	Ten years later so we're at 2008 Joan	19	between the agency and patient groups and provide a
20	testified before FDA's oncology drug approval	20	plethora of ideas of ways in which patients can
	committee, or ODAC, a group of outside scientists,		work with the FDA. I wanted to express my
22	clinicians, and laypeople charged with making	22	gratitude to the FDA for not only listening to but
	D 010		
	Page 210		Page 212
1	recommendations to the FDA on various treatments.	1	Page 212 actively including the patient voice and regulatory
	-		
2	recommendations to the FDA on various treatments.	2	actively including the patient voice and regulatory
2 3	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and	2	actively including the patient voice and regulatory decisions, and for allowing us to share our stories
2 3	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction	2 3 4	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions.
2 3 4 5	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later.	2 3 4 5	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director
2 3 4 5 6	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really	2 3 4 5 6	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate
2 3 4 5 6 7	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals,	2 3 4 5 6 7	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now,
2 3 4 5 6 7 8	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the	2 3 4 5 6 7 8 9	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting
2 3 4 5 6 7 8 9	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of	2 3 4 5 6 7 8 9	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a
2 3 4 5 6 7 8 9 10 11	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we	2 3 4 5 6 7 8 9	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and
2 3 4 5 7 8 9 10 11 12	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to	2 3 4 5 6 7 8 9 10 11 12	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the
2 3 4 5 6 7 8 9 10 11 12 13	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency.	2 3 4 5 6 7 8 9 10 11 12 13	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit.
2 3 4 5 6 7 8 9 10 11 12 13 14	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016,	2 3 4 5 6 7 8 9 10 11 12 13 14	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned
2 3 4 5 6 7 8 9 10 11 12 13 14 15	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016, PDSA received a grant from the FDA and the National	2 3 4 5 6 7 8 9 10 11 12 13 14	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned through these public workshops, and especially
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016, PDSA received a grant from the FDA and the National Organization for Rare Disorders to begin a natural	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned through these public workshops, and especially today, that there are a number of ways to begin
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016, PDSA received a grant from the FDA and the National Organization for Rare Disorders to begin a natural history study patient registry to collect patient	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned through these public workshops, and especially today, that there are a number of ways to begin help advance the regulatory process for ITP
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016, PDSA received a grant from the FDA and the National Organization for Rare Disorders to begin a natural history study patient registry to collect patient experience data. Commissioner Gottlieb and others	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned through these public workshops, and especially today, that there are a number of ways to begin help advance the regulatory process for ITP patients to give them access to establish the new
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016, PDSA received a grant from the FDA and the National Organization for Rare Disorders to begin a natural history study patient registry to collect patient experience data. Commissioner Gottlieb and others at the FDA have stressed the importance of natural	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned through these public workshops, and especially today, that there are a number of ways to begin help advance the regulatory process for ITP patients to give them access to establish the new drugs and improve the ITP treatment paradigm. The
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016, PDSA received a grant from the FDA and the National Organization for Rare Disorders to begin a natural history study patient registry to collect patient experience data. Commissioner Gottlieb and others at the FDA have stressed the importance of natural history studies, as they're a golden opportunity to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned through these public workshops, and especially today, that there are a number of ways to begin help advance the regulatory process for ITP patients to give them access to establish the new drugs and improve the ITP treatment paradigm. The list on the far right with the boxes is definitely
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	recommendations to the FDA on various treatments. This was our first interaction with the FDA, and unfortunately it would be our only interaction until eight years later. PDSA is really grateful to have a really strong relationship with healthcare professionals, medical institutions, researchers, the pharmaceutical industry, and other patient advocacy groups, but we have not been involved much in the regulatory process since Joan's meeting. As one of the four pillars of PDSA's mission is advocacy, we knew that we needed to change, and we decided to engage with the agency. It's important to note that in early 2016, PDSA received a grant from the FDA and the National Organization for Rare Disorders to begin a natural history study patient registry to collect patient experience data. Commissioner Gottlieb and others at the FDA have stressed the importance of natural	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	actively including the patient voice and regulatory decisions, and for allowing us to share our stories with you and answer our questions. At the end of 2017, our executive director emailed PASE to set up an ad hoc meeting to educate the FDA on the ITP patient experience. Now, actually you can go to fda.gov/requestameetingondrugs – I've gone this morning but back then, we received a meeting request within a couple of hours, and we had a meeting set up with the Office of Hematology and Oncology Products in PASE, and I'll talk about the details of our meeting in a bit. Looking ahead past 2018, we've learned through these public workshops, and especially today, that there are a number of ways to begin help advance the regulatory process for ITP patients to give them access to establish the new drugs and improve the ITP treatment paradigm. The list on the far right with the boxes is definitely

CD	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 213		Page 215
1	meeting next year, submitting preliminary registry	1	outcomes, and we need increased research and
	data to the agency for use in clinical trials;	2	federal funding opportunities. These are lessons
3	perhaps provide additional patient testimonies for		we've learned from our patients, their caregivers,
	new ITP therapies if they're needed; and submit		our medical advisors, and clearly demonstrated to
	comments on FDA draft guidances. All of these		the FDA that we realize what's missing in the ITP
	activities help the FDA in providing more		paradigm, and identify for them the unmet need of
	experienced data, which ultimately helps the		our patient community. Finally, the last thing we
	patient.		learned is that you must be able to back up your
9	Now I'm going to talk about our 2017 meeting		asks with quantitative or qualitative data, as was
10	with OHOP and PASE, and what we did to plan our		mentioned multiple times throughout the workshop
	meeting and some of the key things that I'd like		today.
	all of you as patient groups to take away from what	12	PDSA's registry with NORD and the FDA
	we learned. There are four key things that I would		attempts to fill some of the gaps and evidence in
	say are important in planning a meeting between the		the scientific need of our research community. The
	FDA and a patient group.		registry establishes baseline information, logs
16	First, it's important to involve key		longitudinal disease progression, and identifies
	leaders. Our meeting in November included our	17	patient-reported outcomes. Its goal is to
	executive director, who spoke about PDSA's		characterize and describe the ITP population as a
	initiatives to help ITP patients and our goals for		whole; assist the community with the development of
	the meeting. A patient representative, Barbara		recommendations for standards of care; assist
	Pruitt, who is a fierce advocacy for improving the		researchers studying the pathophysiology of ITP and
	lives of ITP patients, shared her 50-year journey		interventional outcomes; and support the design of
	Page 214		Page 216
1	of living with ITP; one of our medical advisors,	1	clinical trials for new treatments.
2	Dr. James Bussel from Weill Cornell Medical Center,	2	The impact of registries are monumental.
3	who discussed the unmet scientific need of ITP	3	Providing patient experience data will in turn be
4	physicians and researchers; and myself, who as	4	able to help regulators make informed decisions
5	research coordinator shared patient experience data	5	about new therapies for ITP and inform trials.
6	from our registry.	6	Thank you to NORD and to the FDA for supporting the
7	Second, our goals were to educate the FDA on	7	rare disease program.
8	the most significant symptoms of ITP, current	8	We were really encouraged during our
9	treatment side effects, burden of disease, and	9	meeting, by the way, that the meeting was actually
10	impact of condition on quality of life; to ensure	10	a discussion and not necessarily a presentation
11	that the ITP patient voice is included in providing	11	from either side. The agency's prioritization of
12	guidance and advancing science; and to serve as a	12	patient involvement ensures that feedback from
13	comprehensive resource on the patient experience	13	patients on endpoints and methodologies, as well as
14	and provide input and guidance in new drug	14	benefits and risks, are integrated into the drug
15	development research moving forward.	15	approval and development process. This meeting was
16	Most importantly, we asked the FDA to	16	beneficial both to PDSA and to the FDA in beginning
17	prioritize the unmet needs of our patients. The	17	a fruitful collaboration and open line of
18	ITP community needs more efficient diagnostic	18	communication.
19	tests. We need treatments that last and better	19	What are some of the take-aways? I think
20	quality of life. We need increased awareness in	20	there used to be this idea that patients and the
21	public and professional health communities and	21	medical community and regulators used to be the
1	comprehensive treatment centers to improve current		silos and didn't really work together, but I think

	•		
1	Page 217		Page 219
1	it's really vital for everybody to work together to	1	and provide guidance to the FDA. PDSA's focus
2	improve how patients feel and function. So it's	2	remains the clear and significant medical need of
3	really important for that collaboration to be	3	our patient population, and we look forward to
4	occurring, and the FDA really encourages that,	4	collaborating with the FDA in the future. Thank
5	which in turn is really encouraging to our patient	5	you for this opportunity.
6	community as well as to our medical advisors in the	6	(Applause.)
7	scientific community.	7	Presentation - Phyllis Foxworth
8	As I mentioned, the FDA wants to include the	8	MS. FOXWORTH: Hi. I'm Phyllis Foxworth.
9	patient perspective, so when planning a meeting in	9	I'm with the Depression and Bipolar Support
10	whatever form that might take, you need to help	10	Alliance. DBSA is the leading peer-directed
11	them to help you. You need to know as a patient	11	organization for individuals living with mood
12	advocacy organization what you bring to the table,	12	disorders. We were founded over 30 years ago. I
13	which is valuable experience information.	13	like to tell people that it was well before there
14	Another take-away is to have the right	14	was Facebook and the internet, but there were
15	people in the room and ask the right questions.	15	several small pockets of support groups around the
16	You should have an agenda prepared and make sure	16	country in major markets that were holding these
17	you have a variety of disease experts convened to	17	support groups. They somehow discovered each other
18	share their experiences. And of course as we've	18	without Facebook or social media, and they came to
19	learned today, there are a number of ways that the	19	Chicago about 32 years ago and got together and
20	FDA can help you plan your meeting so you can help	20	founded DBSA.
21	them.	21	From there, we've grown to over 250
22	For us it was really encouraging to our ITP	22	affiliates around the country that provide over 600
	Page 218		Page 220
1	community that we are collaborating with the	1	support group meetings in their community. I'm
2	agency. It really goes beyond facilitating	2	with the national organization, and our focus is on
3	interaction. Working with the FDA raises awareness		
1	5	3	providing education, hope, and inspiration for
	and gets you one step closer to addressing the		providing education, hope, and inspiration for individuals living with mood disorders, that they
4	-	4 5	individuals living with mood disorders, that they can and should expect to lead quality, productive
4 5	and gets you one step closer to addressing the	4 5	individuals living with mood disorders, that they
4 5 6	and gets you one step closer to addressing the unmet needs of your patient population. As I	4 5	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make
4 5 6 7	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express	4 5 6 7	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make
4 5 6 7 8	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their	4 5 6 7	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became
4 5 6 7 8 9	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with	4 5 6 7 8	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I
4 5 6 7 8 9	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in	4 5 7 8 9 10	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I
4 5 7 8 9 10 11	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them	4 5 7 8 9 10 11	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what
4 5 7 8 9 10 11 12 13	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between	4 5 7 8 9 10 11	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we
4 5 7 8 9 10 11 12 13	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both	4 5 7 8 9 10 11 12 13 14	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the
4 5 7 8 9 10 11 12 13 14 15	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step	4 5 7 8 9 10 11 12 13 14	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering
4 5 7 8 9 10 11 12 13 14 15 16	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step in patient advocacy, and it's really exciting.	4 5 7 8 9 10 11 12 13 14	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering for FDA-led, patient-focused drug development
4 5 7 8 9 10 11 12 13 14 15 16 17	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step in patient advocacy, and it's really exciting. Working with the agency allows regulators to listen	4 5 7 8 9 10 11 12 13 14 15	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering for FDA-led, patient-focused drug development meetings.
4 5 7 8 9 10 11 12 13 14 15 16 17 18	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step in patient advocacy, and it's really exciting. Working with the agency allows regulators to listen to patients regarding the benefits and harms of	4 5 7 8 9 10 11 12 13 14 15 16	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering for FDA-led, patient-focused drug development meetings. So we responded to that docket, and that
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step in patient advocacy, and it's really exciting. Working with the agency allows regulators to listen to patients regarding the benefits and harms of treatments, as at times their chief complaints may	4 5 7 8 9 10 11 12 13 14 15 16 17	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering for FDA-led, patient-focused drug development meetings. So we responded to that docket, and that really forced us to start coalescing around the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step in patient advocacy, and it's really exciting. Working with the agency allows regulators to listen to patients regarding the benefits and harms of treatments, as at times their chief complaints may not be factored explicitly into drug development.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering for FDA-led, patient-focused drug development meetings. So we responded to that docket, and that really forced us to start coalescing around the idea of what is the unmet need and quite frankly,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step in patient advocacy, and it's really exciting. Working with the agency allows regulators to listen to patients regarding the benefits and harms of treatments, as at times their chief complaints may not be factored explicitly into drug development. PDSA was really honored to be given the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering for FDA-led, patient-focused drug development meetings. So we responded to that docket, and that really forced us to start coalescing around the idea of what is the unmet need and quite frankly, that was the easy part of the whole process. There
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	and gets you one step closer to addressing the unmet needs of your patient population. As I mentioned earlier, patients are able to express what matters most to them and take charge of their own health, which is so important. Working with the FDA empowers patients and helps them feel in control of their healthcare experience. Maybe most important, follow up with the FDA, engage with them early, and engage with them often. This really creates a strong bond between advocacy organizations in the agency and keeps both parties in the loop. This is really the next step in patient advocacy, and it's really exciting. Working with the agency allows regulators to listen to patients regarding the benefits and harms of treatments, as at times their chief complaints may not be factored explicitly into drug development.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	individuals living with mood disorders, that they can and should expect to lead quality, productive lives, as well as participate in advocacy to make that world happen. That takes us to where I became involved with the FDA about three years ago. I'm not going to go into much detail as I often did, but kind of give you an overview of what our campaign with the FDA has been all about. As I said, we became engaged with the FDA about three years ago. We responded to the docket that we learned about today, where they had listed the diseases and disorders that they were considering for FDA-led, patient-focused drug development meetings. So we responded to that docket, and that really forced us to start coalescing around the idea of what is the unmet need and quite frankly,

CD	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 221		Page 223
1	depressive disorder in the United States; 21	1	becomes difficult for there to be new drug
	million people live with mood disorders overall.		development, so our collaborating with the FDA is
	One-third to two-thirds of those people are not		to try to move the needle on both the science and
	getting any benefit from current medical,	4	
	therapeutic, and pharmacological interventions.	5	
6	Furthermore, people living with depression		
7	are at a high risk of suicide. People are dying	7	Going through over the campaign here, we
	daily, and there is this idea I think I even	8	utilized the resources at our disposal. I will
			share with you that we certainly didn't know what
10			we didn't know when we embarked on this journey.
11	out there." Well, the truth of the matter is,		It's been a great learning process for me. But we
12	two-thirds of the people are getting no benefit	12	were able to use resources at the FDA, particularly
	from them. People who live with depression, major	13	PASE. They have been so helpful and valuable.
14	depressive disorder, are at high risk of suicide.	14	When we started out on this journey, we did
15	Death by suicide is the 10th leading cause of death	15	what they said not to do. We started dropping
16	in the United States.	16	emails, and we would have meetings with people.
17	The sad news is that there has not been any	17	And they would say, "Oh, you need to talk to
18	breakthroughs in treating major depressive disorder	18	somebody else," so we would schedule a meeting with
19	in over three decades. Thirty years ago, there	19	somebody else. And we'd go to that meeting, and
20	were some major breakthroughs with antidepressants	20	they'd say, "Oh, you need to have a meeting with
21	and antipsychotics, but there has been nothing	21	somebody else." But I will say that at the end of
22	since then. And I keep going back to that fact	22	all those meetings, the person who said you need to
	Page 222		Page 224
1	that one-third to two-thirds of individuals who	1	have that meeting with somebody else always
2	have access to that medication are getting no		followed up, and they would email me back, and they
	benefit.	3	would copy that person and say, "You need to be
4	In addition, those that are, are at very	4	meeting with these people from DBSA."
5	serious risk of relapse, again raising the	5	So eventually, that got us to PASE. I
6	possibility of suicide for them as well.	6	remember having a meeting with Dr. Whyte and Rea.
7	Additionally, people living with mood disorders die	7	They were in the room. And Dr. Whyte said, "Why
8	25 years sooner than the average person, 25 years.	8	are you guys here?" And quite frankly, I didn't
9	And that's not because of the suicide; that's	9	know why we were here. I just knew that we had
10	because of all the other physical conditions	10	this unmet need, and that I knew that there were
11	associated with depression.	11	other patient advocacy organizations that were
12	So we didn't have a difficult time	12	using the FDA to help them find a solution to their
13	understanding what the unmet need was. There's	13	unmet need.
14	clearly an unmet need. We recognize that we need	14	So I didn't have an ask when I went in, and
15	to advance the science from 30 years ago, and	15	that's where PASE was so helpful, is that they were
16	that's where we certainly want to collaborate with	16	really able to help us. They listened carefully to
17	the FDA on understanding where there are new	17	our unmet need and helped us develop a path
18	opportunities to look at new science around those	18	forward.
19	disorders. But we also recognize that for	19	One of the things that I did do after that
20	patients, current clinical trials are primarily	20	conversation with them was I wrote a white paper
21	focused on symptom relief, and that's not what	21	that really helped me coalesce around the idea of
22	patients are interested in. With that hurdle, it	22	what is the unmet need and what is a pathway
1		1	

CDER and You: Keys to Effective Engagement		April 3, 20
	Page 225	Page 22
1 forward. I had a lot of mentors, people wh	no were 1	mentors and people will help me find that answer,
2 at this meeting in years' past who were the	e pros. 2	and I'm not afraid of it.
3 And they were always willing to help me, a	and they 3	That output from the scientific meeting
4 were always willing to share their ideas. I	would 4	really helped us develop a strategy for the
5 call them up and drop them an email, and	they'd 5	patient-focused drug development meeting. We
6 say, "You're doing the right thing. You're	on the 6	submitted our LOI last November, shortly after the
7 right path." So I would encourage you to	use your 7	scientific meeting, and we now have
8 mentors out there.	8	scheduled our externally-led, patient-focused
9 Then we developed some very mear	ningful 9	drug development meeting is scheduled for
o input. As I said, when we had that first me	eeting 10	November 16th.
1 with PASE, Dr. Whyte said, "Why are you	here? What 11	So we continue to be on this path. I just
2 do you want?"	12	want to share that it's a collaborative strategy.
3 DR. WHYTE: [Inaudible - off mic].	13	As I said before, we knew what the unmet need was,
4 MS. FOXWORTH: He was very frien	dly, 14	but we didn't know what to do about that. We also
5 but he was very friendly. I do not mean	-	knew that other patient advocacy organizations were
6 a criticism. It was really probing as to what		working with the FDA, but we didn't know what that
7 you want; why are you here? And that's w	what we 17	meant. And the collaborative effort that we've had
8 needed to hear. And he suggested that w	ve he 18	between the FDA and us has been invaluable.
9 said in this organic meeting, "Hey, it sound	ds like 19	They've been able to help us understand what our
o you guys need a scientific workshop." I to		ask is. They've been able to help us develop a
1 challenge. He laid down that guideline, ar	nd I took 21	strategy for moving forward.
2 that challenge. Within one year, we had a	a 22	I just want to close with what is our
	Page 226	Page 22
1 scientific workshop last November where	we convened 1	strategy for moving forward. As I said, we opened
2 all the major stakeholders, that being patie	ents 2	
		up that what we recognize is that, currently,
3 themselves; caregivers; clinicians; our ind	lustry, 3	up that what we recognize is that, currently, clinical trials for the past 30 years or longer
 themselves; caregivers; clinicians; our ind the people who are responsible for drug 	lustry, 3	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know
 themselves; caregivers; clinicians; our ind the people who are responsible for drug development. 	lustry, 3 4 5	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking
 themselves; caregivers; clinicians; our ind the people who are responsible for drug development. I remember Dr. Whyte kept saying th 	lustry, 3 4 5 nat, 6	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 	lustry, 3 4 5 nat, 6 e who are 7	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart,
 themselves; caregivers; clinicians; our ind the people who are responsible for drug development. I remember Dr. Whyte kept saying th "Well, you need to be talking to the people developing the drugs." The FDA was there 	lustry, 3 4 5 nat, 6 e who are 7 re. But we 8	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 8 developing the drugs." The FDA was ther 9 began the journey. It was a full-day meeting 	lustry, 3 4 nat, 6 e who are 7 re. But we 8 ing. It 9	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions
 themselves; caregivers; clinicians; our ind the people who are responsible for drug development. I remember Dr. Whyte kept saying th "Well, you need to be talking to the people developing the drugs." The FDA was ther began the journey. It was a full-day meeti was very small, very intimate, of about 35 	lustry, 3 4 5 hat, 6 e who are 7 re. But we 8 ing. It 9 people, 10	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 8 developing the drugs." The FDA was ther 9 began the journey. It was a full-day meeti 0 was very small, very intimate, of about 35 1 academics who are responsible for creating 	lustry, 3 4 5 nat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients.
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 8 developing the drugs." The FDA was ther 9 began the journey. It was a full-day meeti 0 was very small, very intimate, of about 35 1 academics who are responsible for creating 2 tools to measure, where we started the communication 	lustry, 3 4 5 hat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 porversation 12	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients.
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 8 developing the drugs." The FDA was ther 9 began the journey. It was a full-day meeti 0 was very small, very intimate, of about 35 1 academics who are responsible for creatir 2 tools to measure, where we started the co 3 about what is it that patients want and how 	lustry, 3 4 5 nat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 onversation 12 w do we 13	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 8 developing the drugs." The FDA was ther 9 began the journey. It was a full-day meeti 0 was very small, very intimate, of about 35 1 academics who are responsible for creatir 2 tools to measure, where we started the co 3 about what is it that patients want and how 4 get to the place where we can start measure 	lustry, 3 4 5 nat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 ponversation 12 w do we 13 uring what 14	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's about what's working in my life and what's not
 themselves; caregivers; clinicians; our ind the people who are responsible for drug development. I remember Dr. Whyte kept saying the "Well, you need to be talking to the people developing the drugs." The FDA was ther began the journey. It was a full-day meeti was very small, very intimate, of about 35 academics who are responsible for creatir tools to measure, where we started the co about what is it that patients want and how get to the place where we can start measure patients want. 	lustry, 3 4 5 nat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 proversation 12 w do we 13 uring what 14	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's about what's working in my life and what's not working. They have heterogeneous life
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 8 developing the drugs." The FDA was ther 9 began the journey. It was a full-day meeti 0 was very small, very intimate, of about 35 1 academics who are responsible for creating 2 tools to measure, where we started the co 3 about what is it that patients want and how 4 get to the place where we can start measure 5 patients want. 6 Based on that scientific workshop, I was 	lustry, 3 4 5 hat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 proversation 12 w do we 13 uring what 14 15 walked 16	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's about what's working in my life and what's not working. They have heterogeneous life circumstances. If I wanted to scream how many times I've heard at that scientific workshop,
 themselves; caregivers; clinicians; our ind the people who are responsible for drug development. I remember Dr. Whyte kept saying th "Well, you need to be talking to the people developing the drugs." The FDA was ther began the journey. It was a full-day meeti was very small, very intimate, of about 35 academics who are responsible for creatir tools to measure, where we started the co about what is it that patients want and how get to the place where we can start measu patients want. Based on that scientific workshop, I was 	lustry, 3 4 5 hat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 proversation 12 w do we 13 uring what 14 15 walked 16 at I put 17	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's about what's working in my life and what's not working. They have heterogeneous life circumstances. If I wanted to scream how many times I've heard at that scientific workshop, "homogeneous, homogeneous," but I
 3 themselves; caregivers; clinicians; our ind 4 the people who are responsible for drug 5 development. 6 I remember Dr. Whyte kept saying th 7 "Well, you need to be talking to the people 8 developing the drugs." The FDA was ther 9 began the journey. It was a full-day meeti 0 was very small, very intimate, of about 35 1 academics who are responsible for creatir 2 tools to measure, where we started the co 3 about what is it that patients want and how 4 get to the place where we can start measure 5 patients want. 6 Based on that scientific workshop, I was 8 myself in these positions where I don't know 	lustry, 3 4 5 hat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 onversation 12 w do we 13 uring what 14 15 walked 16 at I put 17 ow what I 18	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's about what's working in my life and what's not working. They have heterogeneous life circumstances. If I wanted to scream how many times I've heard at that scientific workshop, "homogeneous, homogeneous, but I
 themselves; caregivers; clinicians; our ind the people who are responsible for drug development. I remember Dr. Whyte kept saying th "Well, you need to be talking to the people developing the drugs." The FDA was ther began the journey. It was a full-day meeti was very small, very intimate, of about 35 academics who are responsible for creatir tools to measure, where we started the co about what is it that patients want and how get to the place where we can start measu patients want. Based on that scientific workshop, I w out of there. Again, I continued to say tha myself in these positions where I don't know 	lustry, 3 4 5 hat, 6 e who are 7 re. But we 8 ing. It 9 people, 10 ng those 11 onversation 12 w do we 13 uring what 14 15 walked 16 at I put 17 ow what I 18 vill leave 19	 up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's about what's working in my life and what's not working. They have heterogeneous life circumstances. If I wanted to scream how many times I've heard at that scientific workshop, "homogeneous, homogeneous, bomogeneous," but I realize that we really aren't that far apart, that we have more similarities than we think. It's just
 I remember Dr. Whyte kept saying th "Well, you need to be talking to the people developing the drugs." The FDA was ther began the journey. It was a full-day meeti was very small, very intimate, of about 35 academics who are responsible for creating tools to measure, where we started the cost about what is it that patients want and how get to the place where we can start measure patients want. 	lustry, 3 4 5 5 6 who are 7 7 7 re. But we 8 ing. It 9 people, 10 ny people, 10 ny those 11 5 wolversation 12 w do we 13 uring what 14 15 walked 16 at I put 17 ow what I 18 vill leave 19	up that what we recognize is that, currently, clinical trials for the past 30 years or longer have been based on symptom mitigation, and we know that's not what patients in our space are looking for. But what I realize from that scientific meeting was that we're really not that far apart, that we have FDA language and we have academic language that talks about homogeneous dimensions and domains and validated skills, which mean nothing to patients. Patients have their own language, and that's about what's working in my life and what's not working. They have heterogeneous life circumstances. If I wanted to scream how many times I've heard at that scientific workshop, "homogeneous, homogeneous, homogeneous," but I realize that we really aren't that far apart, that we have more similarities than we think. It's just that we're all speaking the different language.

CD	ER and You: Keys to Effective Engagement		April 3, 2018
	Page 229		Page 231
1	looking to spend some time in some focus groups	1	MS. FOXWORTH: We submitted our LOI last
	with our patients to understand what it is that's		November, and it was reviewed, and we received word
	important in their life; what are they looking for		in March that it had been accepted. So between
	within treatment outcomes. We are developing		March and November is about I can do my math.
	panels that will be able to share the burden	5	
	perspective with the FDA. We will then be able to	6	March then to be accepted? Is that part of the
	share some of the qualitative and quantitative	7	
	surveys that we're doing over the next six months		process.
	with the FDA.	9	MR. ACCETTURA: So it's really closer to
10	Most importantly is that I have a monthly	_	12 months than 6 months?
	meeting with the FDA to help me, and I did not know	11	DR. WHYTE: I think part of it is on our end
	that was going to happen. I thought I was on my		as well, that internally there is a bunch of folks
	own. I thought I was going to have to just pull		that we want to be involved in it. Our focus
	together this patient-focused drug development		is I know everyone, often time frames are
	meeting, again, not knowing what I don't know. And		different, but it's also expectations where we can
	when they accepted the LOI, they reached out and		have discussions on. These are hard to do well,
	they said now is our time for our monthly meetings,		and what we want is the interested parties to come
	and that has been so invaluable.		together and really think through the process. And
19	So that's the mantra that I will leave you		then we want to be able to respond to what the
	with. It's okay that you don't know what you don't	20	
	know; that the FDA is here to help.		are different, and that's a good thing, but then it
22	(Applause.)		takes time to work it out. I know everyone is
	Page 230		Page 232
1	Questions and Answers	1	always on a fast time track, and that's okay. So I
2	DR. WHYTE: I think we have time for a	2	think part of it is on our end as well.
3	couple of questions, and we'll be wrapping it up	3	MR. ACCETTURA: Yes. We're working on
4	very soon. I will say while you come to the mic,	4	treatment-resistant depression, so that really
5	my big point to people has always been make an ask;	5	becomes a very small subset of the patients. And
6	what's your ask? And I think that's part of the	6	Phyllis and I were talking, and everyone kind of
7	challenge, that folks often get so excited just to	7	assumes that depression is taken care of, but it
8	come in and tell their story. It's also important,	8	isn't at all. So this opportunity to have a
9	what are you asking us to do. And that kind of was	9	patient-focused drug development meeting around
10	my point, like why are you here?	10	that point is very important.
11	MR. ACCETTURA: Carl Accettura. I'm with	11	MS. FOXWORTH: And I just want to add that
12	PharmoRx Therapeutics. I came today because I saw	12	we received a word, which I think was very timely.
13	Phyllis was on the agenda and I wanted to get to	13	I submitted the LOI November 30, and then somewhere
14	understand what DBSA was doing. And I was more	14	the 1st of March, we received notice that it had
15			been acconted. And I need all that time to
1	delighted because I've made connections with	15	been accepted. And I need all that time to
16	rare-disease-side people. This has been a great		prepare. I don't want to just slap something
			prepare. I don't want to just slap something
	rare-disease-side people. This has been a great	16	prepare. I don't want to just slap something together that's not of value to the patients nor
17 18	rare-disease-side people. This has been a great meeting, so I thank FDA for holding this.	16 17 18	prepare. I don't want to just slap something together that's not of value to the patients nor
17 18 19	rare-disease-side people. This has been a great meeting, so I thank FDA for holding this. My one question for Phyllis was why did it	16 17 18	prepare. I don't want to just slap something together that's not of value to the patients nor the FDA. I really need that time to pull together
17 18 19 20	rare-disease-side people. This has been a great meeting, so I thank FDA for holding this. My one question for Phyllis was why did it take all the way to November? Because we heard	16 17 18 19 20	prepare. I don't want to just slap something together that's not of value to the patients nor the FDA. I really need that time to pull together a quality meeting.
17 18 19 20 21	rare-disease-side people. This has been a great meeting, so I thank FDA for holding this. My one question for Phyllis was why did it take all the way to November? Because we heard earlier maybe six months to put together a	16 17 18 19 20	prepare. I don't want to just slap something together that's not of value to the patients nor the FDA. I really need that time to pull together a quality meeting. DR. WHYTE: Any other questions? I know folks are getting tired.

CD	d and Drug Administration - Public Workshop ER and You: Keys to Effective Engagement		April 3, 2018
	Page 233		Page 235
1	DR. WHYTE: Well, I want to thank both of	1	Go ahead and submit your votes. Thanks.
2	you for coming and sharing your perspective, and	2	(Audience responds.)
3	thanks for your kind words. It's an iterative	3	MR. GOETZEL: All right. We have our
4	process. We want to get better, and hearing from	4	results. We had a big jump. Twenty-two percent,
5	everyone helps us to do that.	5	very confident, went up to 66 percent, and a few
6	I want to thank all of you for coming today.	6	of you say you're somewhat confident, and amazingly
7	I know it can be challenging to get here. We've	7	zero percent say you're now not confident
8	spent many hours here, and I hope it's been	8	whatsoever. So everybody's at least a little bit
9	valuable to you. I've had the fortune of being up	9	confident in understanding what CDER does, and
10	here, and being visible, and getting to interact	10	that's good news.
	with you, but as you can see, there are a host of	11	On to the next question. In the morning,
12	folks that have been involved.		the question was how confident are you in your
13	I want to thank my folks and colleagues from	13	ability to navigate through engaging with CDER. In
	the Division of Learning, Chad and Derek [ph]. I		the morning, we had 44 percent said not at all
	want to thank our friends at OCOM and DDI, Zac;		confident; 53 percent said somewhat confident; and
	Raj; and Sharon; and certainly all the folks on our		2 percent, one person, said they were very
	team, Noah; Rea; Chris; Sadhna; Malena [ph]; Scott;	17	confident.
	Jungha; Derek; Diane; Mary; Hala; Rhonda; Shawn;	18	So now the polls are open. You can vote
	Dave; David; Christine; and Chris. You never	19	
	expect all these folks are necessary to make this		through and engaging with CDER, choice A is very
	type of meeting happen, but it is, and I want to		confident; B, somewhat; and C, not at all
22	recognize their hard work as well.	22	confident.
	Page 234		Page 236
1	We have a couple of final questions, and I'm	1	(Audience responds.)
2	going to let Noah Goetzel as he says, like	2	MR. GOETZEL: All right. Now we have
3	pretzel do the final audience response questions	3	53 percent, which is an increase in 7 percent
4	because, again, Noah has done an enormous amount of	4	saying that they are very confident in engaging
5	work bringing this together along with Rea and the	5	with CDER, navigating through and engaging with
6	rest of the team.	6	CDER; 41 percent somewhat; and 6 percent are not at
7	Final Poll Questions - Noah Goetzel	7	all confident.
8	MR. GOETZEL: Thank you very much,	8	We've got one more question for you before
9	Dr. Whyte.		the final words of wisdom by Dr. Whyte, and then
10	I'm back, everyone. So in the morning I	10	we'll be all set. This last question is how would
	have results for you. The first question that I		you rate your overall satisfaction with the
12	asked, that one hasn't changed. Still 80 percent	12	information presented today during our CDER and You
12 13	asked, that one hasn't changed. Still 80 percent of you have been here before.	12 13	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat
12 13 14	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for	12 13 14	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied;
12 13 14 15	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for that one, 20 percent of you said you guys are not	12 13 14 15	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied; and finally E, very dissatisfied.
12 13 14 15 16	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for that one, 20 percent of you said you guys are not at all confident in understanding CDER's functions;	12 13 14 15 16	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied; and finally E, very dissatisfied. Go ahead and vote with your clicker the last
12 13 14 15 16 17	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for that one, 20 percent of you said you guys are not at all confident in understanding CDER's functions; 57 percent said you're somewhat confident; and	12 13 14 15 16 17	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied; and finally E, very dissatisfied. Go ahead and vote with your clicker the last time for the day.
12 13 14 15 16 17 18	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for that one, 20 percent of you said you guys are not at all confident in understanding CDER's functions; 57 percent said you're somewhat confident; and 22 percent said very confident. So I'm going to go	12 13 14 15 16 17 18	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied; and finally E, very dissatisfied. Go ahead and vote with your clicker the last time for the day. (Audience responds.)
12 13 14 15 16 17 18 19	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for that one, 20 percent of you said you guys are not at all confident in understanding CDER's functions; 57 percent said you're somewhat confident; and 22 percent said very confident. So I'm going to go ahead and ask that question again. Pick up your	12 13 14 15 16 17 18 19	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied; and finally E, very dissatisfied. Go ahead and vote with your clicker the last time for the day. (Audience responds.) MR. GOETZEL: Okay. That's great news. We
12 13 14 15 16 17 18 19 20	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for that one, 20 percent of you said you guys are not at all confident in understanding CDER's functions; 57 percent said you're somewhat confident; and 22 percent said very confident. So I'm going to go ahead and ask that question again. Pick up your voting little gadget things, the clickers, and A	12 13 14 15 16 17 18 19 20	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied; and finally E, very dissatisfied. Go ahead and vote with your clicker the last time for the day. (Audience responds.) MR. GOETZEL: Okay. That's great news. We have 68 percent who said they were very satisfied
12 13 14 15 16 17 18 19 20 21	asked, that one hasn't changed. Still 80 percent of you have been here before. For understanding the function of CDER, for that one, 20 percent of you said you guys are not at all confident in understanding CDER's functions; 57 percent said you're somewhat confident; and 22 percent said very confident. So I'm going to go ahead and ask that question again. Pick up your	12 13 14 15 16 17 18 19 20 21	information presented today during our CDER and You Public Workshop? A, very satisfied; B, somewhat satisfied; C, neutral; D, somewhat dissatisfied; and finally E, very dissatisfied. Go ahead and vote with your clicker the last time for the day. (Audience responds.) MR. GOETZEL: Okay. That's great news. We

CD.	EK and 100. Keys to Effective Engagement	Арти
	Page 237	
1	that they are dissatisfied with today's	
	presentation. So that's great to hear. Thank you	
3	guys very much.	
4	Closing Remarks - John Whyte	
5	DR. WHYTE: Well, thank you, Noah, and thank	
	you all for sticking with us. I guess my final	
	words of wisdom would be that we're open for	
	business. We want to hear from you. Check out	
	fda.gov/requestameetingondrugs. Hopefully, it	
	won't crash, and we look forward to engaging with	
	all of you. Safe travels this afternoon. Thank	
	you.	
13	(Applause.)	
14	(Whereupon, at 3:07 p.m., the meeting was	
	adjourned.)	
16	. ,	
17		
18		
19		
20		
21		
22		

				• /
	69:8	actively (3)	103:14;212:17;	219:22
#	accelerating (1)	72:11;111:16;212:1	218:22;222:15	afford (1)
	69:20	activities (14)	advanced (1)	152:10
#CDERandyouengagementworkshop (1)	accept (2)	51:2,9;103:9;104:8,	66:18	afraid (2)
28:22	130:11;140:7	16;169:8,14;173:12;	advancing (1)	159:7;227:2
	accepted (5)	179:3;181:7,15;185:6;	214:12	afternoon (2)
\$	153:1;229:16;	198:17;213:6	advantage (1)	147:18;237:11
	231:3,6;232:15	activity (2)	106:1	again (56)
\$1900 (1)	access (9)	16:21;151:15	adventive (1)	12:3;23:11;27:22;
143:17	15:6;36:4;40:17;	actual (5)	192:11	28:6;34:3;36:1,11;
\$3100 (1)	92:6;139:4,5;188:11;	71:18;72:8;99:22;	adventurous (1)	37:4;39:12;45:13;
143:21	212:18;222:2	113:16;164:14	192:9	51:5,12;55:4;57:7,19;
	accessed (1)	actually (49)	adverse (6)	80:8;86:10;90:13;
L	36:1	17:16;20:22;21:11,	16:9,18;130:7;	91:7;94:10;100:18;
	accessibility (1) 117:3	12;23:6;24:1;42:5; 63:15,21;72:6,10,12;	139:10,19;206:12 advice (7)	102:5;110:2;114:16; 123:21;129:22;
[inaudible (6)	accessible (3)	73:14;74:7;82:17;	47:9;70:15,19;71:1,	125.21,129.22, 130:13,19;131:5,19;
58:3;132:6;138:13;	36:10;117:1;208:21	84:22;87:8;98:13;	20;146:22;149:17	130:13,19,131:5,19, 132:10,18;134:1;
143:8;199:22;225:13	ACCETTURA (5)	106:6;116:22;147:9;	advising (1)	132:10,18,134:1, 136:6,15;137:7;
[ph] (5)	230:11,11;231:5,9;	153:16,19;154:18;	166:13	138:16;139:6,15;
126:20,21;139:21;	230:11,11,251.5,9,	159:1,3;161:15;	advisors (3)	140:9;142:6;154:10;
233:14,17	accommodate (2)	163:19;165:9;167:4,	214:1;215:4;217:6	155:13;156:8;158:2,5;
[sic](1)	119:15;120:7	15;181:5;183:7;184:1,	advisory (19)	174:3;186:2;189:15;
141:2	accomplish (2)	14;185:5;186:6;	105:12,13;115:13;	204:22;222:5;226:17;
Α	44:15;45:2	187:15;188:5;190:14;	131:12,16;143:1,3,5;	229:15;234:4,19;
A	account (2)	193:18;196:14;	149:14,22;175:20;	235:19
	28:20;49:17	197:14,15;201:9,18;	180:8,11,14;181:21;	against (1)
A/V (1) 45:21	achieved (1)	202:5;212:7;216:9	188:15;189:1;204:4,7	117:8
abbreviated (1)	196:9	ad (3)	advocacy (40)	age (1)
149:13	acknowledge (1)	106:14;115:12;	17:5;33:19;34:15;	108:3
ability (4)	118:14	212:5	42:14;50:21;54:17;	agencies (2)
27:16;103:3;	acronym (10)	Adcons (1)	57:20;62:3;106:13,19;	157:4;162:20
110:10;235:13	32:1;129:2;130:16,	193:12	107:9,19;111:22;	agency (34)
able (33)	20,21;131:21,22;	add (6)	129:4;131:6,7;136:16,	13:4;14:22;15:6;
32:20;34:9;35:12;	132:1,11,19	38:9;39:17;109:5;	18;137:8,9;138:5;	17:7;18:6;21:12,21;
50:17;53:9;54:21;	acronyms (5)	195:18;200:2;232:11	142:18;178:11;	22:11;42:12;69:16;
86:16;108:2;109:20;	23:18;30:10,15;	added (2)	199:10;207:10;208:6,	72:17;77:9;97:3,10;
116:1,6;120:21;	67:8;130:15	151:4;173:22	7,11;209:1,16;210:8,	98:1,22;99:2;124:3;
154:11;155:15;	acronym's (1)	addition (9)	11;211:10;213:21;	171:5;176:13;177:14;
165:15;182:1;193:3,6,	148:15	18:21;103:19;	217:12;218:14,16;	181:18;182:10,18;
9,11;194:20;195:6;	across (10)	185:18;188:14,20;	220:6;224:11;227:15	187:1;193:11;204:12;
198:12;215:8;216:4;	47:21;72:3;73:5;	189:13;190:2;208:22;	advocate (1)	207:7;210:13;211:19;
218:6;223:12;224:16;	93:2;108:2;157:3,11;	222:4	46:3	213:2;218:2,14,17
227:19,20;229:5,6;	159:5;180:19;196:20	additional (3)	advocates (9)	agency's (3)
231:19	Act (13)	86:5;153:4;213:3	81:14;87:16;112:3,	65:21;69:22;216:11
above (5)	33:15;49:10,13;	Additionally (1)	4;123:3;137:18;	agenda (11)
77:9;78:2,5;99:20;	50:6;51:20;75:2;	222:7 address (6)	142:19;161:6;162:18	20:3,12,12;41:19;
205:20	79:11;83:18;112:21;		Affairs (12)	43:17;71:16;74:5,11;
absence (1)	141:12,14;170:22; 186:10	36:21;54:2;95:21; 114:21;157:14;182:21	25:5;29:17;35:14; 105:1;138:2;155:1;	105:8;217:16;230:13
88:17	acting (4)	addressing (3)	105:1;138:2;155:1; 157:2;168:17;169:2,	ago (12) 14:3;148:1;159:1;
absolutely (2)	62:11,15;111:17;	59:14;62:6;218:4	21;175:17;191:8	189:3;193:22;209:9;
178:15;190:20	158:14	adequate (5)	affect (3)	219:12,19;220:8,13;
AC (4)	action (6)	83:22;84:12,17;	64:2;65:7;75:21	221:19;222:15
105:15,18,21;106:5	72:12;101:9;	85:3;87:14	affected (2)	agree (6)
academia (1)	106:21;110:19;130:8;	adjourned (1)	63:22;76:2	101:5,22;196:2;
103:15	150:5	237:15	affecting (2)	205:8,9,9
academic (2)	actions (3)	Administration (4)	63:19;76:5	agreement (1)
25:19;228:8	50:2;72:8;101:8	99:1,3,7;100:11	affectionately (2)	67:14
academics (1) 226:11	active (7)	administrative (3)	11:9;31:21	ahead (10)
accelerate (3)	71:19,20;150:20;	148:8;150:4;152:14	affects (3)	10:5,7;26:6;29:20;
65:11;70:9;77:20	165:13;176:16;194:6;	advance (7)	63:9;85:9;208:5	79:12;134:16;212:14;
accelerated (1)	211:8	20:11;56:11;92:1;	affiliates (1)	234:19;235:1;236:16
accelerateu (1)		/ 7- 7		, ,

A Matter of Record (301) 890-4188

CDER una Tou. Reys to	Encente Engagement			
aid (1)	amendments (1)	13:13;23:15;30:8;	archival (1)	62:12
82:8	83:17	45:19;60:16;62:8;	12:1	associated (3)
AIDS (1)	American (1)	76:14;92:16;95:4;	area (19)	90:17;129:13;
186:7	103:10	102:15;114:20;	21:14;35:12;45:7;	222:11
Alana (1)	Americans (2)	135:20;146:10,15,16;	111:8;112:8;117:15;	Association (3)
126:13	18:8;103:7	155:17;204:15,17;	120:6,16;163:22;	93:18;207:9;208:2
Alaskan (1)	among (4)	219:6;229:22;237:13	173:21;174:3,4,6;	associations (2)
147:12	80:5;98:19;144:21;	application (12)	178:20;180:7;189:2;	103:15,22
Alexandra (4)	167:18	66:14;69:16;73:12;	199:19;202:2,6	assumes (1)
207:4,7,12,20	amount (5)	83:11,12;124:2;	areas (9)	232:7
alignment (1)	18:13;20:8;30:22;	179:20;188:18,18;	35:18;65:18;71:21;	assuming (1)
72:6	82:18;234:4	202:18,21;205:16	166:16;174:1;177:7;	144:8
all! (1)	amplified (1)	applications (6)	178:22;181:10;194:11	Atlanta (1)
137:12	85:20	16:6;73:13;81:18;	around (25)	98:9
allergenic (1)	analysis (3)	149:13;202:19;204:10	14:14;23:3;37:13;	Atlantic (2)
187:11	85:4;86:8;158:15	applied (1)	55:22;73:11;94:11;	71:6;72:3
Alliance (4)	analytical (1)	175:12	103:2;117:15;126:16;	atrium (1)
40:3;59:12;207:11;	178:15	applies (1)	161:9;173:2,11;	184:15
219:10	and/or (1)	111:18	192:12;197:6,21;	attempt (1)
allow (13)	108:10	apply (4)	199:7,18;201:10;	32:2
38:21;53:11,18;	ANDAs (1)	73:8;87:19;200:14;	208:5;219:15,22;	attempted (1)
89:5;99:18;100:1;	94:5	204:6	220:19;222:18;	14:8
113:1;123:12,13;	Andrea (8)	appointments (2)	224:21;232:9	attempts (1)
131:15;156:3;207:15;	156:8;167:12;	172:11,13	arrangements (1)	215:13
211:7	168:3,10,11,16;	appreciate (5)	154:11	attend (8)
allowed (2)	179:21;196:11	116:18;118:5;	ARS (2)	102:19;116:20;
71:3;124:21	Anne (1)	190:4;204:19;207:17	28:8;29:7	117:13;162:6;201:18,
allowing (2)	126:20	approach (5)	article (2)	22;204:4,6
11:21;212:2	announce (1)	12:14;66:16;	47:19,22	attended (3)
allows (2)	31:6	111:13;116:4;160:5	articles (1)	146:22;190:2;
44:17;218:17	announced (1)	approaches (2)	100:17	211:12
alluded (4)	175:19	111:10;121:12	aspect (7)	attendees (2)
32:22;33:4;94:4;	announces (1)	appropriate (8)	49:1;60:5;75:20;	38:7;119:21
102:6	103:13	19:14;21:22;22:11;	76:4;123:7;178:14;	attending (2)
almost (3)	annual (6)	84:20;94:7,14;186:21;	179:16	26:8;123:16
13:6;21:9;70:11	67:20;68:8;103:19;	187:1	aspects (2)	attention (3)
along (7)	163:12;182:9;200:19	appropriately (2)	52:8;107:2	107:22;168:8;
28:18;29:5;53:8;	anonymous (1)	90:20;134:7	assemble (1)	204:15
90:21;118:17;123:22;	10:22	appropriation (1)	120:14	attitude (1)
234:5	answered (4)	85:1	assess (5)	127:3
Alps (1)	17:9;19:13;20:11;	appropriations (1)	48:12;49:8;74:21;	attorney (1)
159:2	99:6	21:17	82:11;166:18	152:11
Although (2)	answer's (1)	approval (14)	assessed (4)	attributes (1)
133:11;196:21	26:9	29:12,19;34:22;	49:4;90:17,20;91:1	58:10
always (32)	Antarctica (1)	78:1;83:20;99:9;	assessing (1)	audience (40)
30:20;32:1;43:11,	80:22	109:4;140:13;142:21;	85:2	10:20;25:1,9,14;
16;74:7;86:3,7;87:11;	antibody (1)	144:17;188:19;	assessment (7)	26:12;27:6,20;37:16;
95:17;112:19,20;	73:14	205:16;209:20;216:15	46:19;47:7;49:17;	57:5;58:2;59:22;77:1,
113:6,12,13;114:18;	antidepressants (1)	approve (2)	88:4;91:3,6;189:3	12;78:3,14;79:7;
116:20;117:4;155:5;	221:20	96:21,22	assessments (5)	98:18;99:4,6,13,21;
163:5,10;164:5;	antipsychotics (1)	approved (9)	47:11;49:5;55:12;	100:6;163:1;164:8,10;
165:10;172:16;177:8;	221:21	16:12;64:6;65:6;	89:18;166:12	191:11;200:17;
196:22;199:21;224:1;	anymore (1)	87:6;92:7;93:20;	assigned (1)	202:15;204:3,20,21;
225:3,4;226:21;230:5;	31:15	130:5;144:16;208:9	105:14	205:1,12,21;206:8,14;
232:1	apart (2)	approves (4)	assignment (3)	234:3;235:2;236:1,18
Alysa (1)	228:7,18	98:21;100:11,15;	179:15;180:16,17	Australia's (1)
126:21	apologize (6)	137:20	assignments (2)	99:3
Alzheimer's (1)	26:16;130:14;	approximately (3)	180:21;193:13	authorities (1)
18:3	168:13;202:7,13;	205:18,18;206:1	assist (3)	77:8
amazing (1)	204:1	April (1)	155:15;215:19,20	authority (1)
115:9	appetite (1)	201:7	assistance (3)	45:8
amazingly (1)	17:13	archery (1)	35:3;71:18,21	autoimmune (1)
235:6	Applause (21)	168:19	associate (1)	208:4
	1	1	1	1

119:11

bar(2)

automatically (1)

154:13

154:13	$\operatorname{Dar}(2)$
availability (1)	44:8;121:18
47:18	Barbara (1)
available (18)	213:20
12:5;20:9;36:15;	barely (1)
51:11;82:6;86:20;	64:3
89:3;90:10;94:20;	BARTEK (5)
103:7;104:5;135:2;	43:2;56:2;58:5;
136:21;155:5;158:1;	122:13,17
167:6,8;209:11	based (8)
avenues (3)	75:1;86:8,11;
19:11;157:20,22	134:21;177:14;223:6;
average (5)	226:16;228:4
22:4;180:20;	baseline (1)
205:19;208:15;222:8	215:15
avid (1)	basic (2)
24:10	20:18;174:11
avoid (1)	basically (3)
111:13	33:8;53:4;115:14
aware (7)	basis (7)
36:8;44:2;107:4;	56:14;84:4;89:21;
112:11;113:9;153:11;	106:14;107:15;
201:17	170:17;199:18
awareness (7)	basket (1)
38:14;108:21;	31:3
166:19;178:10;185:8;	batteries (1)
214:20;218:3	159:16
away (3)	Bauer (1)
76:1;183:5;213:12	62:2
	beams (1)
axis (1)	
23:11	148:11
	beautiful (1)
R	beautiful (1)
В	102:19
В	
	102:19 became (2)
baby (1)	102:19 became (2) 220:7,12
baby (1) 175:13	102:19 became (2) 220:7,12 become (7)
baby (1)	102:19 became (2) 220:7,12
baby (1) 175:13 back (43)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21;
baby (1) 175:13 back (43) 15:12;16:15;19:12;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7;
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12
baby (1) 175:13 back (43) 15:12;16:15;19:12;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21,	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12;
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21,	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12;
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22;	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1,
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3) 111:7;207:3,18	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1, 18
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3) 111:7;207:3,18 ball (1)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1, 18 behead (1)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3) 111:7;207:3,18	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1, 18
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3) 111:7;207:3,18 ball (1) 31:4	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1, 18 behead (1) 169:1
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3) 111:7;207:3,18 ball (1) 31:4 balloon (1)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1, 18 behead (1) 169:1 behind (6)
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3) 111:7;207:3,18 ball (1) 31:4 balloon (1) 168:20	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1, 18 behead (1) 169:1 behind (6) 61:7,14;78:12;
baby (1) 175:13 back (43) 15:12;16:15;19:12; 20:10,15;21:20;24:22; 26:18;28:9;32:19; 34:14;39:18,21;42:14; 45:14;62:2;82:22; 96:12;109:20;118:21, 22;121:13,16;124:13; 140:9;150:19,21; 153:6;155:8;156:7; 160:17;164:17; 175:13,13;192:10; 193:22;196:8;200:15; 212:9;215:8;221:22; 224:2;234:10 background (3) 33:14;173:7;181:18 backwards (1) 195:19 bad (3) 111:7;207:3,18 ball (1) 31:4 balloon (1)	102:19 became (2) 220:7,12 become (7) 24:2;27:13;69:21; 103:18;104:3;123:7; 181:12 becomes (2) 223:1;232:5 becoming (4) 58:14;177:12; 182:22;203:17 beforehand (1) 140:16 began (2) 176:6;226:9 begin (2) 210:16;212:16 beginning (1) 216:16 begun (1) 196:6 behalf (4) 16:17;158:8;208:1, 18 behead (1) 169:1 behind (6)

beings (1) 153:18 Bender (1) 126:13 beneficial (1) 216:16 benefit (9) 48:12,16:85:7,8: 87:13;166:18;221:4, 12;222:3 benefit-(1) 49:16 benefit-risk (2) 55:12;166:12 benefits (8) 48:9;49:9;104:5; 108:16;141:19;180:5; 216:14;218:18 best (14) 41:3;55:15;57:18; 72:16;92:6;95:18; 96:11:105:6:115:20; 120:7;157:19;189:8; 196:22;209:2 bet (4) 137:11,12,13,15 better (28) 11:12;17:3;18:21; 19:11;21:20;32:1; 63:13;78:9;90:12; 101:18:109:3.5.11: 136:22;138:7;140:2; 165:21:170:5.6.6: 173:1,11:199:6,15: 203:7:208:13:214:19: 233:4 beyond (2) 17:20;218:2 bias (4) 85:4:111:9.13; 112:8 biased (1) 84:16 bids (1) 144:20 big (7) 31:3;58:11;129:9; 176:9;192:4;230:5; 235:4 **Bigby** (1) 155:5 bigger (2) 58:14:98:15 biggest (3) 100:22;148:6;149:7 Bill (1) 126:21 biologic (5) 60:22;61:3;83:11; 130:5;179:18 biological (3) 73:13;99:10;185:3 **Biologics** (19)

12:19;46:16;73:9, 10:129:3:133:7.8; 134:2.18:135:4.8.9. 13:136:7:169:10; 183:7,17;184:11; 187:7 biologic's (1) 188:17 biomarkers (1) 64:19 biomedical (2) 135:1;171:13 biosimilar (2) 96:4.4 biosimilars (10) 17:16;93:19,20; 94:1,3;95:5,10,18; 96:1;121:14 biostatisticians (1) 66:7 biotherapeutic (1) 187:12 **Bipolar** (3) 40:3;207:10;219:9 **Bishop** (7) 76:17;77:1,2,13; 78:4,15;79:8 bit (24) 10:16;11:7,14; 27:13;46:16,20;73:6; 81:12:82:13.22:84:11; 88:7:151:17:158:14: 169:19:173:6:184:10; 186:13;191:5;200:12; 209:5,8;212:13;235:8 **BLA (3)** 73:13;83:11;89:22 black (1) 15:3 Blakev (27) 121:19;155:20; 156:9,10,13:159:14: 167:14;174:21;183:2, 4,21;184:5;190:11,20; 191:5,10,15,18; 193:17;195:16; 196:11;197:18;200:2; 202:7;203:22;204:13, 18 BLAs (1) 73:14 bleeding (2) 187:14;208:4 blind (1) 117:8 blindly (1) 118:9 blog (1) 172:19 blood (7) 134:20,20;187:13, 17,18,20;189:6 board (1)

130:22 bombard (1) 107:21 bond (1) 218:13 bone (1) 187:21 **boot** (1) 11:10 both (21) 16:2;23:1;42:12; 48:21:53:5,15:71:5, 10;73:11;74:21;79:6; 91:10;108:15;112:6; 179:18;202:22; 207:13;216:16; 218:14;223:3;233:1 bother (1) 151:3 bothersome (1) 90:16 box (1) 15:4boxes (1) 212:20 bragging (1) 124:19 brand (3) 68:13;133:11; 141:18 break (8) 74:9:79:13:109:22: 111:1;119:3;121:5; 124:13.16 breakthrough (1) 69:7 breakthroughs (2) 221:18.20 breathtaking (1) 159:6 bridge (1) 159:4 brief (3) 33:11;83:15;159:13 briefly (2) 45:12;160:15 Brigid (1) 126:22 bring (8) 30:22;37:13;74:8; 105:6;108:8;113:20; 204:11;217:12 bringing (1) 234:5 brings (1) 36:19 broad (1) 172:15 broadly (2) 111:20:166:15 Broe (1) 126:13 broken (1)

· · · · · · · · · · · · · · · · · · ·	Effective Engagement	1	Г	April 3, 2018
71.16	79.00.100.00		102.15 17 104.0 12	
71:16	78:20;102:20;	cans (1)	183:15,17;184:8,12,	ceremony (2)
buildings (1)	117:12,16;184:13	148:10	16,19;185:5;189:20,	98:12,15
184:14	can (211)	capacity (1)	21;191:16;201:16	certain (9)
builds (1)	10:22;11:13,18;	198:13	CDER (62)	41:11,15;44:5;
141:6	13:7;15:16;19:12,13;	capture (4)	11:5;12:16;13:21;	48:22;87:17;173:21;
bunch (2)	20:10;21:7,8,11,19,20,	48:3,5;88:15;97:16	15:2;19:14,17;27:14,	178:4,7;198:17
10:8;231:12	21;22:6,8,11,18;	captured (2)	17;28:3,15;29:8,15;	certainly (12)
burden (9)	24:13,20;26:6;28:18;	94:13;160:7	30:5,16;33:17,22;	30:15;39:20;40:5;
51:7,7;162:3;166:9;	29:15,16,19,21;31:16;	capturing (1)	36:7;37:6;46:10,12;	73:4;107:22;157:15;
173:12,12;199:16;	35:10;36:1,6,20;	48:1	47:8,10;64:6;65:15;	167:19;181:10;
214:9;229:5	37:14,19;38:3;39:17;	car (1)	73:5,8,11,14,16;75:6;	195:19;222:16;223:9;
bureaucratic (2)	40:17;41:22;43:1;	62:17	77:17;78:21;80:17;	233:16
14:13;21:2	44:15;45:13;47:13;	Cara (1)	81:11,16;102:3;103:9,	cetera (1)
burn (1)	48:2,3,19;49:4;50:9,	126:19	19;104:7,17;105:3;	58:16
156:11	10,18;51:6,18;53:9,	card (1)	116:5;126:3;141:21;	CFR (1)
burrito (3)	18,22;54:8,12,14;	117:21	144:15;150:20;	23:19
24:16,18;32:21	55:15;56:2;58:11;	cards (1)	151:16,16,18;157:11;	Chad (1)
	59:20;60:9,12;61:3,	167:20		233:14
business (5)			183:14;186:14;	
17:4;37:7;39:19,20;	18;68:15;69:18;	care (10)	200:21;201:16;	challenge (9)
237:8	72:20;73:8;75:7;	14:4;48:4;101:16,	211:13;234:14;235:9,	31:8;46:3;86:5;
Bussel (1)	78:16;80:6;82:6;	21;151:10;152:18,20;	13,20;236:5,6,12	120:2,19;168:20;
214:2	83:12;87:4,16;88:22;	186:18;215:20;232:7	cderpase@fdahhsgov (1)	225:21,22;230:7
busy (1)	89:7,9,11,15,16;90:4,	careful (1)	115:2	challenged (1)
15:21	11,20;91:2,7,13;92:2,	112:5	CDER's (6)	151:4
button (2)	11;93:10,10,14;94:12;	carefully (7)	35:13;103:4,5;	challenges (5)
36:18;37:5	95:12,13,17;97:18;	49:8;100:14;107:1,	165:1;211:14;234:16	64:1;85:19,20;93:6;
buzz (1)	99:17;100:4;101:10;	6;112:12;114:13;	CDRH (4)	100:22
159:16	102:3;103:16;104:18;	224:16	46:15;73:21;	challenging (3)
~	107:4;108:1,5;109:5;	caregiver (4)	186:15;201:16	84:22;121:9;233:7
С	110:22;111:6,7;	25:19;40:7;50:21;	cells (1)	champion (2)
	112:22;113:11;114:6;	178:8	134:20	12:21;62:2
cafeteria (1)	115:2;116:15;117:13,	caregivers (19)	cellular (2)	chance (1)
	11.5.2,110.15,117.15,	calcgivers (1)	cenular (2)	chance (1)
79:20	20;119:12;120:2,8,15,	44:19;54:16;124:6;	134:21;187:22	45:13
79:20 California (1)	20;119:12;120:2,8,15, 17,19;121:2,9,10;	44:19;54:16;124:6; 131:9;161:5,21;163:4;	134:21;187:22 Center (38)	45:13 change (13)
79:20 California (1) 147:13	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17;	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15;	134:21;187:22 Center (38) 10:14;11:8;12:8,9,	45:13 change (13) 13:3;75:5,8,11,12;
79:20 California (1) 147:13 call (21)	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17;	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22;	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12;
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15;	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21;	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12;	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12,	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20;
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15,	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10,	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13;	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19;	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1,	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6,	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7,	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2,
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13;	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19;	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1,	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6,	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7,	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2,
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4;	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5)	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4; 171:12;173:9,10,14;	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16,	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11;	$\begin{array}{c} 20;119;12;120;2,8,15,\\ 17,19;121;2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21;
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16	$\begin{array}{c} 20;119;12;120;2,8,15,\\ 17,19;121;2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10)	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2)	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15	$\begin{array}{c} 20;119;12;120;2,8,15,\\ 17,19;121;2,9,10;\\ 123;5,7;124;5;126;17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11)	$\begin{array}{c} 20;119;12;120;2,8,15,\\ 17,19;121;2,9,10;\\ 123;5,7;124;5;126;17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10;	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4;	$\begin{array}{c} 20;119;12;120;2,8,15,\\ 17,19;121;2,9,10;\\ 123;5,7;124;5;126;17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21;	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4;	$\begin{array}{c} 20;119;12;120;2,8,15,\\ 17,19;121;2,9,10;\\ 123;5,7;124;5;126;17;\\ 129:11,14;141:17;\\ 142:19;147;21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1)	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4;	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ 21;198:18,22;199:9, \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4;	$\begin{array}{c} 20;119;12;120;2,8,15,\\ 17,19;121;2,9,10;\\ 123;5,7;124;5;126;17;\\ 129:11,14;141:17;\\ 142:19;147;21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1)	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ 21;198:18,22;199:9,\\ 15;200:7,13;203:7,18, \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2)	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ 21;198:18,22;199:9,\\ 15;200:7,13;203:7,18,\\ 20;204:4,5;206:4;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 central (1) 118:1	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ 21;198:18,22;199:9,\\ 15;200:7,13;203:7,18,\\ 20;204:4,5;206:4;\\ 209:2,4;211:20;212:7;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 central (1) 118:1 centralized (3)	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7)	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ 21;198:18,22;199:9,\\ 15;200:7,13;203:7,18,\\ 20;204:4,5;206:4;\\ 209:2,4;211:20;212:7;\\ 217:20,20;220:5;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 central (1) 118:1 centralized (3) 95:20;116:3;118:10	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18;	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ 21;198:18,22;199:9,\\ 15;200:7,13;203:7,18,\\ 20;204:4,5;206:4;\\ 209:2,4;211:20;212:7;\\ 217:20,20;220:5;\\ 226:14;231:4,15;\\ \end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 central (1) 118:1 centralized (3) 95:20;116:3;118:10 centricity (1)	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18; 160:16;169:20;	$\begin{array}{c} 20;119:12;120:2,8,15,\\ 17,19;121:2,9,10;\\ 123:5,7;124:5;126:17;\\ 129:11,14;141:17;\\ 142:19;147:21;\\ 149:11;150:6;151:10,\\ 16,22;152:6,19;\\ 154:21;155:14;163:7,\\ 20;164:18;166:10,15;\\ 167:6,10,17,22;170:4;\\ 171:12;173:9,10,14;\\ 174:1;175:10;177:21;\\ 178:1,12;179:1,4,5,5,\\ 11;180:1,2;181:1,2;\\ 182:2,7,12;189:15;\\ 190:11,17;193:10;\\ 194:21;195:11;\\ 196:19;197:2,12,15,\\ 21;198:18,22;199:9,\\ 15;200:7,13;203:7,18,\\ 20;204:4,5;206:4;\\ 209:2,4;211:20;212:7;\\ 217:20,20;220:5;\\ 226:14;231:4,15;\\ 233:7,11;235:18\end{array}$	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18 category (2)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 central (1) 118:1 centralized (3) 95:20;116:3;118:10 centricity (1) 33:17	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2) 67:17;209:22
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18; 160:16;169:20; 219:18;230:12	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4; 171:12;173:9,10,14; 174:1;175:10;177:21; 178:1,12;179:1,4,5,5, 11;180:1,2;181:1,2; 182:2,7,12;189:15; 190:11,17;193:10; 194:21;195:11; 196:19;197:2,12,15, 21;198:18,22;199:9, 15;200:7,13;203:7,18, 20;204:4,5;206:4; 209:2,4;211:20;212:7; 217:20,20;220:5; 226:14;231:4,15; 233:7,11;235:18 Canada (1)	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18 category (2) 68:15;134:22	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 central (1) 118:1 centralized (3) 95:20;116:3;118:10 centricity (1) 33:17 Century (9)	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2) 67:17;209:22 chart (2)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18; 160:16;169:20; 219:18;230:12 camp (1)	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4; 171:12;173:9,10,14; 174:1;175:10;177:21; 178:1,12;179:1,4,5,5, 11;180:1,2;181:1,2; 182:2,7,12;189:15; 190:11,17;193:10; 194:21;195:11; 196:19;197:2,12,15, 21;198:18,22;199:9, 15;200:7,13;203:7,18, 20;204:4,5;206:4; 209:2,4;211:20;212:7; 217:20,20;220:5; 226:14;231:4,15; 233:7,11;235:18 Canada (1) 99:1	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18 category (2) 68:15;134:22 cause (2)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 central (1) 118:1 centralized (3) 95:20;116:3;118:10 centricity (1) 33:17 Century (9) 12:15;33:14;49:10;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2) 67:17;209:22 chart (2) 10:14;69:18
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18; 160:16;169:20; 219:18;230:12 camp (1) 11:10	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4; 171:12;173:9,10,14; 174:1;175:10;177:21; 178:1,12;179:1,4,5,5, 11;180:1,2;181:1,2; 182:2,7,12;189:15; 190:11,17;193:10; 194:21;195:11; 196:19;197:2,12,15, 21;198:18,22;199:9, 15;200:7,13;203:7,18, 20;204:4,5;206:4; 209:2,4;211:20;212:7; 217:20,20;220:5; 226:14;231:4,15; 233:7,11;235:18 Canada (1) 99:1 cancer (2)	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18 category (2) 68:15;134:22 cause (2) 75:5;221:15	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 centralized (3) 95:20;116:3;118:10 centricity (1) 33:17 Century (9) 12:15;33:14;49:10; 50:5;75:2;141:12,13;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2) 67:17;209:22 chart (2) 10:14;69:18 Cheat (9)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18; 160:16;169:20; 219:18;230:12 camp (1) 11:10 Campaign (3)	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4; 171:12;173:9,10,14; 174:1;175:10;177:21; 178:1,12;179:1,4,5,5, 11;180:1,2;181:1,2; 182:2,7,12;189:15; 190:11,17;193:10; 194:21;195:11; 196:19;197:2,12,15, 21;198:18,22;199:9, 15;200:7,13;203:7,18, 20;204:4,5;206:4; 209:2,4;211:20;212:7; 217:20,20;220:5; 226:14;231:4,15; 233:7,11;235:18 Canada (1) 99:1 cancer (2) 176:8;187:10	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18 category (2) 68:15;134:22 cause (2) 75:5;221:15 CBER (19)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 centralized (3) 95:20;116:3;118:10 centricity (1) 33:17 Century (9) 12:15;33:14;49:10; 50:5;75:2;141:12,13; 170:21;194:15	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2) 67:17;209:22 chart (2) 10:14;69:18 Cheat (9) 129:4;131:6,7;
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18; 160:16;169:20; 219:18;230:12 camp (1) 11:10 Campaign (3) 78:11;220:11;223:7	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4; 171:12;173:9,10,14; 174:1;175:10;177:21; 178:1,12;179:1,4,5,5, 11;180:1,2;181:1,2; 182:2,7,12;189:15; 190:11,17;193:10; 194:21;195:11; 196:19;197:2,12,15, 21;198:18,22;199:9, 15;200:7,13;203:7,18, 20;204:4,5;206:4; 209:2,4;211:20;212:7; 217:20,20;220:5; 226:14;231:4,15; 233:7,11;235:18 Canada (1) 99:1 cancer (2)	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18 category (2) 68:15;134:22 cause (2) 75:5;221:15	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 centralized (3) 95:20;116:3;118:10 centricity (1) 33:17 Century (9) 12:15;33:14;49:10; 50:5;75:2;141:12,13;	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2) 67:17;209:22 chart (2) 10:14;69:18 Cheat (9)
79:20 California (1) 147:13 call (21) 11:10;18:11;31:15; 34:6;38:2;43:9,12,15, 19;63:18;102:13; 105:15;124:22;152:6, 8,22;154:10;156:11; 166:9;195:7;225:5 called (5) 14:5,8;30:10;32:11; 74:16 calling (2) 31:21;63:15 calls (11) 17:11;20:15;23:4; 43:11;44:17;45:2,4; 107:19;113:4;121:4, 11 Calvin (2) 59:11;126:19 came (7) 12:22;14:2;102:18; 160:16;169:20; 219:18;230:12 camp (1) 11:10 Campaign (3)	20;119:12;120:2,8,15, 17,19;121:2,9,10; 123:5,7;124:5;126:17; 129:11,14;141:17; 142:19;147:21; 149:11;150:6;151:10, 16,22;152:6,19; 154:21;155:14;163:7, 20;164:18;166:10,15; 167:6,10,17,22;170:4; 171:12;173:9,10,14; 174:1;175:10;177:21; 178:1,12;179:1,4,5,5, 11;180:1,2;181:1,2; 182:2,7,12;189:15; 190:11,17;193:10; 194:21;195:11; 196:19;197:2,12,15, 21;198:18,22;199:9, 15;200:7,13;203:7,18, 20;204:4,5;206:4; 209:2,4;211:20;212:7; 217:20,20;220:5; 226:14;231:4,15; 233:7,11;235:18 Canada (1) 99:1 cancer (2) 176:8;187:10	44:19;54:16;124:6; 131:9;161:5,21;163:4; 165:16;166:2;171:15; 173:10,17;176:15,22; 177:17;199:12; 208:16;215:3;226:3 caregiving (1) 171:18 Carl (1) 230:11 Caroline (2) 93:17;122:2 carriables (1) 56:8 case (9) 10:15;17:8;53:10; 155:8;157:20;167:21; 178:18;182:22;209:5 cases (2) 195:8,9 categories (2) 128:4;129:2 categorized (1) 153:18 category (2) 68:15;134:22 cause (2) 75:5;221:15 CBER (19)	134:21;187:22 Center (38) 10:14;11:8;12:8,9, 18;13:4;20:3;25:12; 26:5,22;39:2;46:12, 15;78:18;81:9;95:6; 103:13;141:16;142:1, 4;168:22;169:10,15; 183:7,17;184:10; 185:3,8,17,20,20; 187:2,3,7,15;189:16, 17;214:2 centers (10) 151:17;169:5,7; 174:5;180:20;185:15; 187:3;196:20;197:3; 214:22 center's (1) 104:3 centralized (3) 95:20;116:3;118:10 centricity (1) 33:17 Century (9) 12:15;33:14;49:10; 50:5;75:2;141:12,13; 170:21;194:15	45:13 change (13) 13:3;75:5,8,11,12; 84:15;85:15,16;86:12; 114:9,13;192:20; 210:12 changed (8) 14:21;72:12;75:2, 19;104:2,11;175:2; 234:12 changing (3) 119:18;192:21; 193:2 Channel (2) 76:20;166:19 characteristics (2) 58:16;84:18 characterize (2) 88:9;215:18 characterized (2) 52:10;64:4 charge (3) 22:13;30:20;218:7 charged (2) 67:17;209:22 chart (2) 10:14;69:18 Cheat (9) 129:4;131:6,7;

· · · · · · · · · · · · · · · · · · ·	Effective Engagement			April 5, 2018
check (4)	36:3	156:3	67:4;69:19;71:6;	149:12;165:14;
26:13;27:21;155:6;	clear (9)	coalesce (1)	86:11;112:9;117:16;	166:20;171:11;
237:8	34:9;57:9;78:10;	224:21	122:16;158:5;160:11;	178:10,13;199:13;
checked (1)	117:6;170:18;189:9;	coalescing (1)	199:15;207:17;233:2,	203:8;211:4;214:18;
10:12	198:5;203:2;219:2	220:19	6	215:7,14,19;216:21;
cheese (1)	clearly (2)	Code (2)	Commander (3)	217:6,7;218:1;220:1
149:16	215:4;222:14	14:11;18:17	29:14;102:1,10	companies (7)
Chicago (1)	Click (6)	cold (1)	comment (7)	18:9;67:10;68:7;
219:19	26:9;36:18;37:5;	148:1	103:17;122:17;	72:18;77:6;139:13,14
chief (1)	127:5;128:17;140:16	coldest (1)	149:1;151:14;154:5;	company (3)
218:19	clicker (6)	147:11	172:8;202:8	99:11;111:14;
childhood (1)	24:4;28:9;77:11;	collaborate (5)	comments (16)	122:22
187:9	126:15;131:20;236:16	54:19;57:20;70:19;	107:7,7;147:5,16;	comparable (1)
children (6)	clickers (6)	71:4;222:16	151:12,13,21;153:6,7,	89:20
62:18;65:7,9;76:1;	10:19;26:5;76:16;	collaborates (1)	14,17,20;154:6;	comparison (2)
171:16;184:7	98:6;205:1;234:20	77:19	167:16;170:12;213:5	93:10,11
choice (2)	clicking (1)	collaborating (5)	commercially (1)	comparisons (1)
148:3;235:20	140:17	56:9;197:3;218:1;	110:20	84:21
choices (5)	clinical (50)	219:4;223:2	Commissioner (6)	compassionate (1)
26:11;27:4,17;	16:2;18:9;21:1,13,	collaboration (4)	148:16;156:17;	138:21
205:8;209:12	14,15,16,22;41:10;	54:10;209:1;	169:16,18;175:18;	compel (1)
choose (17)	45:4;46:18;47:7,11;	216:17;217:3	210:18	150:7
126:9;129:22;	48:5,12,12,16;49:1,4;	collaborations (1)	commissioner's (5)	compensation (1)
130:13,19;131:5,19;	55:9,9;56:5;58:6,18;	161:17	147:10;183:6;	198:17
132:10,18;134:1;	64:17;83:5;85:7,13;	collaborative (11)	185:15,19;186:15	competed (1)
136:6,15;137:6;	90:11,15;91:14,15,20;	169:22,22;170:9;	commit (1)	80:20
138:16;139:6,15;	93:3,15;99:11;108:19;	172:17,21;202:18;	161:12	complaints (1)
140:9;142:6	109:6;138:8;139:2;	203:3,13;211:18;	commitment (2)	218:19
chose (1) 79:10	140:12;142:15,17,17;	227:12,17	161:11;179:12	complement (1) 169:12
	170:1;211:1;213:2;	collaboratively (2)	committed (2)	
			120.20.106.4	complete (1)
Chris (5) 32:5:104:21:	216:1;222:20;228:3	67:18;74:7	120:20;196:4	complete (1)
32:5;104:21;	clinically (6)	colleague (3)	committee (19)	54:6
32:5;104:21; 115:21;233:17,19	clinically (6) 13:1;42:4;48:16;	colleague (3) 29:13;102:2;104:20	committee (19) 105:12,13,21;106:5;	54:6 completely (1)
32:5;104:21; 115:21;233:17,19 Chris' (1)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13	colleague (3) 29:13;102:2;104:20 colleagues (14)	committee (19) 105:12,13,21;106:5; 115:13;131:11,12;	54:6 completely (1) 65:2
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8,	committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4;	54:6 completely (1) 65:2 complex (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5;	committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14;	54:6 completely (1) 65:2 complex (1) 153:2
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3;	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5;	committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1;	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17;	committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7)</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6;	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18)	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6;</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20;	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15;	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8,</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17;	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20;	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15;	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8,</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19;	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3)</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19;	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15;	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2)</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10)	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12;	committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7)	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21;	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16;</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7;</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16;
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christ (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22;	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2)	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christ (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4)</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christ (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1)	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21;</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christ (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2) 106:18,20	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2) 156:3;180:1	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1) 177:4	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21; 179:10</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5 compulsively (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2) 106:18,20 civil (1)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2) 156:3;180:1 clues (1)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1) 177:4 color (1)	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21; 179:10 communities (5)</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5 compulsively (1) 155:6
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christ (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2) 106:18,20 civil (1) 148:21	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2) 156:3;180:1 clues (1) 128:1	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1) 177:4 color (1) 58:10	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21; 179:10 communities (5) 17:1;177:19;</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5 compulsively (1) 155:6 computer (1)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christ (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2) 106:18,20 civil (1) 148:21 CJ (1)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2) 156:3;180:1 clues (1) 128:1 cluster (4)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1) 177:4 color (1) 58:10 comfortable (1)	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21; 179:10 communities (5) 17:1;177:19; 178:21;196:17;214:21</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5 compulsively (1) 155:6 computer (1) 135:11
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2) 106:18,20 civil (1) 148:21 CJ (1) 189:4	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2) 156:3;180:1 clues (1) 128:1 cluster (4) 70:8,8;73:9;74:8	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1) 177:4 color (1) 58:10 comfortable (1) 182:5	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21; 179:10 communities (5) 17:1;177:19; 178:21;196:17;214:21 community (27)</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5 compulsively (1) 155:6 computer (1) 135:11 concept (2)
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2) 106:18,20 civil (1) 189:4 class (1)	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2) 156:3;180:1 clues (1) 128:1 cluster (4) 70:8,8;73:9;74:8 C'mon (1)	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1) 177:4 color (1) 58:10 comfortable (1) 182:5 coming (22)	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21; 179:10 communities (5) 17:1;177:19; 178:21;196:17;214:21 community (27) 41:17;60:1,6;62:1,</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5 compulsively (1) 155:6 computer (1) 135:11 concept (2) 12:12;83:8
32:5;104:21; 115:21;233:17,19 Chris' (1) 32:9 Christine (4) 197:22;198:3; 202:11;233:19 Christl (2) 95:6,13 Christopher (2) 32:17;204:20 Christy (1) 127:1 circumstances (5) 11:14;61:16; 101:17;102:8;228:15 citing (1) 150:8 citizen (1) 152:17 citizens (4) 15:5,9;153:22; 154:2 citizens' (2) 106:18,20 civil (1) 148:21 CJ (1) 189:4	clinically (6) 13:1;42:4;48:16; 85:13,16;87:13 clinician-reported (1) 91:11 clinicians (3) 50:20;209:22;226:3 close (6) 138:15;139:6; 151:5;168:8;206:20; 227:22 closed (5) 52:19;171:22; 172:8,9;182:4 closely (3) 169:4;185:18; 186:14 closer (2) 218:4;231:9 closest (1) 144:14 Closing (1) 237:4 clue (2) 156:3;180:1 clues (1) 128:1 cluster (4) 70:8,8;73:9;74:8	colleague (3) 29:13;102:2;104:20 colleagues (14) 35:4;38:14,17;46:8, 14;56:10;98:5; 155:19;156:4,5; 185:19;201:17; 206:22;233:13 collect (18) 47:13;51:13,15; 54:7,14,21;55:17; 58:1;59:1,20;60:9,19; 92:12;139:18;160:19; 194:2;195:6;210:17 collected (4) 50:7;52:13,15; 153:17 collecting (10) 52:14;53:21;54:12; 56:5;57:16;58:8,21; 61:13;194:19;211:15 collection (2) 58:17;61:2 collectively (1) 177:4 color (1) 58:10 comfortable (1) 182:5	<pre>committee (19) 105:12,13,21;106:5; 115:13;131:11,12; 143:1;150:1;172:4; 175:21;180:12,14; 181:21;188:15;189:1; 204:5,7;209:21 committees (7) 131:17;143:4,6; 146:21;179:14;180:8, 19 common (3) 63:15;90:18;150:10 communicate (5) 18:5;50:15,18; 101:6;189:8 communicating (2) 101:19;177:16 communication (7) 34:9;42:11,16; 51:22;134:6;179:7; 216:18 communications (4) 33:5;35:6;155:21; 179:10 communities (5) 17:1;177:19; 178:21;196:17;214:21 community (27)</pre>	54:6 completely (1) 65:2 complex (1) 153:2 complexities (1) 193:1 complicate (1) 39:16 complicated (1) 122:6 component (2) 53:8;174:9 components (1) 134:20 compound (1) 90:8 compounds (2) 90:10;221:10 comprehensive (4) 88:8;211:16; 214:13,22 comprise (1) 51:5 compulsively (1) 155:6 computer (1) 135:11 concept (2)

(5) check - concepts

CDER and You: Keys to	Effective Engagement			April 3, 2018
$\mathbf{a} = \mathbf{a} + $	110.10	117.7 20.119.12.	224:3	21.10.172.2
concerned (3)	110:19	117:7,20;118:12;		31:18;173:3
41:10,12;153:22	connect (2)	121:22;149:6;190:9;	cornea (1)	creates (2)
concerns (2)	116:7;173:10	195:21	187:22	52:22;218:13
91:17;93:21	connecting (1)	contacts (1)	Cornell (1)	creating (2)
conclude (2)	181:3	165:20	214:2	60:4;226:11
114:15;156:18	connections (1)	content (2)	correctly (2)	credit (1)
concludes (1)	230:15	55:4;152:16	99:6;141:19	143:7
55:20	consider (5)	context (3)	correlate (2)	Creutzfeldt-Jakob (1)
		49:20;85:14;166:10	88:16;197:15	189:4
conclusions (2)	40:8;79:18;106:22;		,	
71:7;92:6	107:1;121:11	continents (2)	correspondent (1)	criteria (6)
condense (1)	considerable (1)	80:19,22	156:3	57:11;164:1;
190:17	69:1	continue (6)	corresponding (1)	171:14;172:4;203:19,
condition (10)	consideration (1)	34:3;76:2;82:10;	77:10	20
49:1;50:1,9;52:5;	166:5	129:14;196:7;227:11	Cosmetic (1)	critical (3)
54:4;90:22;161:7;	considerations (2)	continued (2)	83:18	55:14;141:7;184:22
178:5;180:2;214:10	65:8;164:21	83:13;226:17	cost (4)	critically (1)
conditions (6)	considered (9)	continuing (3)	100:4;109:7;	14:5
39:10;84:7;135:2;	14:13;83:9;105:19;	95:9;177:7;181:11	133:11;165:12	criticism (1)
136:20;177:5;222:10	114:14;162:10;	continuous (1)	costly (2)	225:16
conduct (1)	176:12;180:15;191:2;	186:10	184:1,5	cross-country (1)
167:1	203:16	continuum (2)	Council (3)	62:18
conducted (1)	considering (2)	96:17:124:1	67:12;73:20;171:10	cross-cutting (5)
84:5	201:8;220:15	contribute (2)	counsel (1)	12:11;169:6,11;
conducting (3)	considers (1)	109:9;185:2	152:10	174:4;185:21
79:4;166:12;212:21	99:8	contributions (1)	count (1)	Crosstalk (3)
		13:18	38:22	
Confer (1)	consistency (1)			127:8;143:16,20
144:21	111:9	control (4)	counterparts (2)	crossword (1)
conference (4)	consistent (4)	89:16;93:4,7;	133:12;195:10	156:2
44:17;121:4,10;	34:1;111:10,13;	218:10	countries (3)	culture (2)
200:19	114:12	controlled (1)	87:9;99:19;100:2	13:3;121:6
conferences (2)	consists (1)	92:3	country (4)	Cumulatively (1)
163:12,14	83:22	controls (2)	63:10;149:15;	63:20
confidence (1)	consortium (1)	84:20;89:12	219:16,22	Cures (10)
235:19	77:7	convened (2)	counts (1)	33:15;49:10;50:5;
	constant (1)	217:17;226:1	86:3	
confident (37)				75:2;141:12,13;
26:21;27:1,2,2,3,9,	104:4	conversation (14)	couple (21)	170:22;186:10;
11,12,14,16,18,18,19;	constantly (2)	24:12;28:19;102:6;	26:10;48:14;69:20;	194:15;208:10
28:2,4,5,7;29:7,9;	177:2,16	123:8;156:17;179:2,	72:2;94:17,19;109:21;	curing (1)
234:16,17,18,21,21,	Constituent (1)	21;192:19,20;193:1;	120:3,12,12;121:4;	136:10
22;235:5,6,7,9,12,15,	175:17	198:15;200:12;	134:15;155:3;171:4;	curious (2)
15,17,21,22;236:4,7	constituents (1)	224:20;226:12	189:3;191:15;197:19,	93:19;158:12
confidential (6)	23:2	conversations (6)	21;212:10;230:3;	current (10)
110:7;154:7;181:6;	constrained (1)	106:12;170:20;	234:1	33:22;69:2;101:8;
188:11;198:16;203:12	109:18	177:18,20;179:8;	course (16)	111:2;162:2;193:7;
	construct (1)			
confidentiality (1)		192:20	14:16;49:22;50:16;	214:8,22;221:4;
110:4	211:2	cooperative (1)	59:17;66:17,18;71:14;	222:20
confirm (1)	consultants (1)	67:14	89:14;99:14;151:12;	currently (10)
51:22	181:2	coordinate (7)	155:5;157:3;178:19;	36:14;37:22;38:5;
conflating (1)	consultations (1)	70:18,22;71:1;72:2;	179:12;185:22;217:18	42:1;51:10;68:12;
96:4	180:3	73:16;74:2;169:12	courteous (1)	172:2;202:19;206:5;
conflict (5)	consults (1)	coordinated (1)	134:17	228:2
114:2;178:19,22;	103:9	96:9	cousin (1)	curve (1)
203:11,15	consumer (3)	coordination (1)	111:4	179:11
	15:10;103:12,16	70:14		
$\frac{\text{conflicts}(1)}{180.17}$			cover (3)	cut (1)
180:17	consumers (3)	coordinator (3)	29:4;40:10;100:4	73:5
confused (2)	103:20;135:15;	175:1;207:8;214:5	cranky (1)	cutting (1)
44:5;202:16	138:7	COPD (1)	80:1	109:7
Congratulations (1)	Consumers' (1)	177:9	crash (1)	
146:14	171:5	copies (2)	237:10	D
Congress (5)	contact (17)	12:4;152:12	create (5)	
64:8;67:9;76:7;	12:6;31:11;35:19;	COPR (1)	34:18;57:22;59:9;	D&D (1)
113:4;196:2	37:8,18;38:9;43:9;	171:9	97:11;118:10	148:19
congressional (1)	57:20;72:21;95:13;	copy (1)	created (2)	dad (1)
congressionar (1)	57.20,72.21,75.15,	~~PJ (-)		uuu (1)

96:14,18,19;97:5;

CDER and Tou. Reys to	Effective Engagement	
175:11	DDM (1)	deliverable (1)
daily (6)	148:18	162:8
48:21;51:10;56:14;	deal (1)	deliverables (2)
162:2;199:17;221:8	148:12	164:14;166:22
dance (1)	dealing (4)	delivery (1)
102:12	21:6;85:22;188:16;	49:11
Daniels (14)	189:2	delve (1)
46:17;47:2,3,6;	dealt (1)	178:16
56:19;57:14;58:4,20;	86:7	demand (1)
59:16;60:8;85:11;	death (4)	99:18
88:2;90:13;108:7	88:13;147:13;	demo (4)
data (66)	221:15,15	33:8,10,11,13
16:1;46:21;47:14;	decade (2)	demographic (1) 138:9
50:6,6,16;51:14,16;	76:20;104:12	
52:11,13,14,22;53:5,	decades (1)	demonstrate (4)
22;54:8,13,15,22;	221:19	16:6;32:6,16;
55:1,3,5,6,8;56:5;	December (4)	173:22
57:2,16;58:1,8,16,21;	169:4;171:21;	demonstrated (1)
59:1,15,21;60:5,9;	172:20;184:12	215:4
61:2;67:4;71:4,14;	decide (3)	depending (4)
88:1;90:15;91:2;	41:2;143:19;163:9	93:8;115:20;
92:13;93:21;94:11,13,	decided (2)	120:18;150:8
22;97:15,17;109:9;	150:6;210:12	depends (2)
113:16,20;131:10;	deciding (1)	55:6;93:11
138:9;195:7,7,11;	174:2	Depression (10)
197:6;210:18,21;	decision (3)	40:3;65:4;207:10;
211:5;213:2,7;214:5;	96:21;158:15;	219:9;221:6,10,13;
215:9;216:3	197:14	222:11;232:4,7
database (1)	decision-making (5)	depressive (3)
65:19	49:8;54:1;55:19;	221:1,14,18
dating (1)	92:10;194:22	deputy (1)
150:21	decisions (12)	169:16
daughters (1)	97:16;103:10,13,14,	Derek (2)
184:2	17;114:8,11;153:19;	233:14,18
daunting (2)	176:18;184:22;212:2;	derived (1)
14:2;15:3	216:4	64:16
Dave (2)	deduplicated (1)	dermatologic (1)
126:19;233:19	153:17	39:10
David (1)	default (1)	describe (3)
233:19	44:22	53:9;181:20;215:18
Davis (1)	define (5)	describes (2)
32:12	48:15;71:10;74:4;	49:2;50:6
day (17)	159:21;160:4	describing (2)
20:16;28:10,16;	defined (7)	52:5;56:22
40:10;45:18;60:15;	50:14;60:2;63:7;	deserves (1)
108:6;115:3;118:2;	74:6;83:21;85:2,8	157:13
151:15,17;153:22;	definitely (7)	design (7)
156:7;165:13,22;	56:19;79:14;159:6;	55:9;58:15;64:12;
182:12;236:17	162:6;194:12;202:4;	66:8;87:14;89:7;
day-line (1)	212:20	215:22
66:18	definition (12)	designation (1)
days (8)	57:12;74:19;75:3,5,	69:15
37:7;39:19,20;	8,10,11,12,19;160:9,	designations (1)
44:19;116:10;118:22;	10,14	69:19
151:11,21 DBSA (4)	degrees (3)	designed (6)
DBSA (4)	13:7,9,17	88:8;90:12;100:19;
219:10,20;224:4;	delay (1)	109:5;110:18;142:9
230:14 DC (5)	48:22 deleved (1)	designing (1)
DC (5)	delayed (1) 93:10	91:10 designs (5)
44:13;120:6,16;	delighted (4)	designs (5) 16:3;66:5;71:9;
200.22.202.1		
200:22;202:1		
200:22;202:1 DDI (1) 233:15	25:16;62:10;207:4; 230:15	92:5;93:15 desire (1)

41:17 desired (1) 106:21 desires (1) 109:15 detail (5) 53:10;88:1;105:10, 11:220:9 details (5) 57:7.18:58:19: 112:17;212:13 detect (2) 89:10;130:7 deterioration (1) 48:22 determination (1) 91:21 determinations (1) 70:2 determine (11) 71:9,11;81:19,19; 83:6,16;85:7;89:9; 91:2;126:17;148:9 determined (3) 82:7;84:2;129:1 determines (1) 100:3 determining (2) 53:13;89:8 develop (26) 17:2:23:20:56:12, 16:64:9:65:15.18.19. 22,22;67:3,10,15,15; 74:3;76:5;87:7,19; 92:1;109:8;166:18; 173:21;174:16; 224:17;227:4,20 developed (10) 64:22;65:20;68:14, 22;70:7,22;91:8; 169:4;173:15;225:9 developer (1) 15:11 developers (3) 56:7;67:5;162:21 developing (8) 18:2;53:2;69:17; 141:9;174:7;197:8; 226:8;229:4 development (112) 17:14,22;19:18; 33:16,21;34:20;35:2; 41:11;42:20;47:11,16, 18,21;48:2;49:12,14, 20;51:3;54:1,6,9,11; 55:10,15,19;59:2; 64:1;65:12;66:16; 67:1;68:7,12;69:2,12; 70:9,10,12,20;72:1,3, 9:73:8:77:18.20: 78:13;79:5;82:8,10, 13;83:5;86:21;87:17; 90:9;91:16;92:9,10;

104:13.15:105:5.10: 107:11,16;108:19; 109:4,8;110:6,12; 111:2;112:18;124:1; 136:2,22;144:17; 159:11,22;160:3,8,16, 22;161:3;166:14,15; 169:9;179:18;185:3; 186:3,4;189:20;190:4; 194:22;195:1;197:13; 211:1,15;212:22; 214:15;215:19; 216:15;218:20; 220:16;223:2;226:5; 227:5,9;228:22; 229:14;230:21;232:9 developments (4) 65:16;107:10; 137:4,6 develops (1) 77:3 device (9) 11:2;66:1;74:16,17; 75:10;99:2;128:20; 133:6;177:5 devices (6) 46:15;169:10,11; 185:21;187:16,16 devour (1) 24:17diagnosing (1) 136:10 diagnostic (1) 214:18 diagnostics (1) 186:20 dialogue (8) 19:8;22:19;39:13; 42:2;105:19;109:17; 111:20:167:17 Diane (8) 183:4,6,10,12; 191:19;194:15; 195:16;233:18 dictates (1) 44:1 die (1) 222:7 difference (5) 60:6;89:16;113:7; 198:6;202:17 differences (2) 86:6;113:21 different (34) 14:9;26:22;28:17; 36:7,9;51:4,18;59:17; 65:5,13;72:5,8;81:20; 87:18;88:20;94:3,18, 19,21;104:19;114:4; 115:19;119:1;134:15; 145:16;183:8;186:20; 192:7;193:15;198:13;

	Effective Engagement	Г	1	11011 0, 2010
203:1;228:20;231:15, 21	disease (104) 18:1,3;41:15,17;	108:15;127:15,21 divide (1)	45:3,20;47:3,3,6; 56:19;57:14;58:4,20;	18;79:5;80:17;81:9, 18;82:2,8,10,13,16,18;
difficult (7)	42:7;44:3;49:12,22;	80:4	59:11,16;60:8,17,18;	83:4,10,17,18;84:3,5,
14:19;15:13;28:13;	50:3,9,10,10;51:6,7,8,	Division (13)	62:9,11,15;73:2,10;	13,14;85:9;86:11,15,
64:11;208:17;222:12;	9;52:9;54:4,17;61:21;	17:10;37:21;78:21;	74:13,13;75:9;76:13,	17,21;87:17;90:8,19;
223:1	62:1,3,3,7,10,12;63:8,	80:14;81:7,11;96:12;	15;79:10;80:12,13,14;	91:16;92:4,7,9;94:5,
difficulties (1)	13,22;65:19;66:5,13;	97:8;147:8,9;148:17;	81:1,2,4;85:11,20;	15;96:14,17,19;97:5;
153:2	67:12,20;69:11,15,17;	199:15;233:14	88:2;90:13;92:18,20;	98:22;99:7,9,16;
dimensions (1)	70:1,7,10;73:18;75:3,	divisions (16)	93:5;94:3,16;95:3,5,	100:11;104:5,13;
228:9	6,20;77:18,21;83:1;	34:12;35:13;36:9;	13;97:9;98:14;100:9;	105:4,9;110:6;112:18;
dinner (1)	85:14;86:4,6,14,17;	47:10;80:18;81:17;	102:6,17;108:6,22;	124:1,2;130:5;131:1,
111:5	87:21;88:9,12,16,20;	96:8;97:15;106:16;	118:8;119:5,14;120:1;	3;132:3,5,13,15;
diplomatic (1)	89:5,6,13;90:3,6,7,17;	123:8;173:18;174:6;	122:5,9,12,15;123:10,	133:8,9;134:12,14;
168:4	91:12;93:1,12,13;	177:20;181:3;193:13;	14;124:12;126:4;	135:14;136:1,4,13,14,
direct (4)	94:1;105:8;108:9,14;	199:2	127:9,19;128:16,22;	22;137:3,5;138:15;
51:22;154:21;	112:2;115:10;136:11;	doable (1)	129:9,20;130:3,10,16,	139:10,13,14,14,19;
171:19;195:21	160:20;163:22;166:8;	87:3		
			18,21;131:2,4,7,14,22;	140:15;142:1,4,9,20;
directly (9)	171:15;173:9,11,11,	docket (12)	132:4,9,12,14,16,20;	150:9,12,14,16;
72:20;95:12;	13;178:5;180:2;	147:2,3,3,5,7,16;	133:1,8,18,20;134:4,	159:11,22;160:3,8,16,
110:15;121:21;	185:12;186:18,19,21;	151:5,19;153:7;	10,19;135:5,7,9,14,18,	22;161:3;166:13,14,
153:18;168:22;	187:4,19;189:5;199:4,	170:11;220:13,18	21;136:5,9,14,18;	15;169:9;179:18;
177:17;181:3;207:16	16,17,19;208:7,14;	Dockets (9)	137:5,9,13,15,22;	186:3;188:13;189:20;
director (9)	211:3,4;214:9;215:16;	147:8,9;148:4,17,	138:2,6,12,14,20;	190:3;194:22;197:13;
12:8,9,17;35:3;	216:7;217:17	19,20;149:4;150:20;	139:5,9,14,17,22;	205:15;206:5,11,12;
62:12,16;158:15;	diseases (46)	154:8	140:2,4,12,19,21;	209:20;211:15;
212:4;213:18	39:8;62:16;63:4,6,7,	doctor (1)	141:5,13,16,22;142:3,	212:22;214:14;
directors (1)	11,15;64:2,4,10,10,15,	14:3	8,16;143:3,10,18,21;	216:14;218:20;
78:22	22;65:10;67:11;68:8,	doctors (1)	144:2,5,8;145:1,6,11,	220:16;223:1;226:4;
directs (1)	19;69:1,4;73:5;77:15,	15:22	17,19,22;146:5,11,13,	227:5,9;228:22;
31:14	16;78:1,8;81:20;	doctor's (1)	17;155:18;206:18;	229:14;230:21;232:9
disability (1)	82:21;85:21,22;86:4,	135:15	214:2;224:6,7;225:11,	drugs (78)
88:13	18;87:2,6;89:13;90:3;	Documents (1)	13;226:6;230:2;	16:13,19;17:13,15,
disappointed (1)	91:7;106:11;161:14;	148:20	231:11;232:20;233:1;	17;19:20,20;32:3;
100:10	171:20;173:2,3;177:5;	domains (1)	234:9;236:9;237:5	35:17,21;41:14,14;
disciplines (1)	185:17;187:17;208:9;	228:10	draft (4)	45:5;46:19;47:19;
180:18	211:14;220:15	done (19)	57:15;59:8,16;	62:13;63:6;64:9,21;
			213:5	
disclose (3)	disease-specific (3)	19:2;20:6;21:1;		65:5,20,22;67:10;
11:15;122:10;206:5	87:20;161:4;188:22	30:18,21;38:2;62:5;	dramatic (1)	68:14,19;70:22;71:2;
disclosures (2)	Disorder (7)	66:3;69:12;72:8;	89:15	75:11;78:1;80:16;
63:3;81:15	93:18;207:8;208:1,	73:14;90:10;116:4;	driven (2)	81:9,20;82:6;83:19;
discover (1)	4;221:1,14,18	128:9,16;152:7;199:8;	86:9;199:2	86:20;87:19;92:1;
142:10	disorders (12)	200 2 224 4		00.20,07.17,72.1,
discovered (1)		209:3;234:4	driving (2)	94:4;98:21;99:17,18,
	64:13:65:7.12:		driving (2)	94:4;98:21;99:17,18,
	64:13;65:7,12; 173:5:187:14:210:16:	donors (1)	driving (2) 62:18;117:1	94:4;98:21;99:17,18, 20;100:1,4,12,15;
219:17	173:5;187:14;210:16;	donors (1) 187:17	driving (2) 62:18;117:1 drop (1)	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16;
219:17 Discovery (2)	173:5;187:14;210:16; 219:12;220:4,15;	donors (1) 187:17 dose (2)	driving (2) 62:18;117:1 drop (1) 225:5	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22;
219:17 Discovery (2) 76:20;82:20	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19	donors (1) 187:17 dose (2) 58:13;83:7	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1)	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22;
219:17 Discovery (2) 76:20;82:20 discuss (7)	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1)	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17,
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7;	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183)	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20;
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17;	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2)	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10,	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15;
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13;
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3)	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8)	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9;
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13;
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3)	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8)	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9;
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14;	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4)	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1)	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2)
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12)	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1) 201:1	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12) 58:7;61:12;71:22;	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1) 201:1 Ditto (1)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8 DR (187)	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14; 54:11;59:2;64:1,12,	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16 due (3)
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12) 58:7;61:12;71:22; 122:18;127:18;156:9;	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1) 201:1 Ditto (1) 197:18	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8 DR (187) 10:4;12:8;13:11,15;	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14; 54:11;59:2;64:1,12, 16;65:12;66:16;67:1,	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16 due (3) 70:9;112:22;173:13
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12) 58:7;61:12;71:22; 122:18;127:18;156:9; 157:21;164:2,7;	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1) 201:1 Ditto (1) 197:18 diverge (1)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8 DR (187) 10:4;12:8;13:11,15; 23:16,16,19;24:10;	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14; 54:11;59:2;64:1,12, 16;65:12;66:16;67:1, 5,10;68:6,7,12;69:2,	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16 due (3) 70:9;112:22;173:13 duplicate (2)
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12) 58:7;61:12;71:22; 122:18;127:18;156:9; 157:21;164:2,7; 190:17;205:6;216:10	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1) 201:1 Ditto (1) 197:18 diverge (1) 114:10	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8 DR (187) 10:4;12:8;13:11,15; 23:16,16,19;24:10; 25:2,4;30:9;31:9;32:9,	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14; 54:11;59:2;64:1,12, 16;65:12;66:16;67:1, 5,10;68:6,7,12;69:2, 12,15,17,22;70:9,10,	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16 due (3) 70:9;112:22;173:13 duplicate (2) 38:11;39:15
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12) 58:7;61:12;71:22; 122:18;127:18;156:9; 157:21;164:2,7; 190:17;205:6;216:10 discussions (6)	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1) 201:1 Ditto (1) 197:18 diverge (1) 114:10 diverse (3)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8 DR (187) 10:4;12:8;13:11,15; 23:16,16,19;24:10; 25:2,4;30:9;31:9;32:9, 18,22,22;33:4;34:14,	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14; 54:11;59:2;64:1,12, 16;65:12;66:16;67:1, 5,10;68:6,7,12;69:2, 12,15,17,22;70:9,10, 12,20,21;72:2,18;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16 due (3) 70:9;112:22;173:13 duplicate (2) 38:11;39:15 duration (1)
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12) 58:7;61:12;71:22; 122:18;127:18;156:9; 157:21;164:2,7; 190:17;205:6;216:10 discussions (6) 41:2;71:18;72:7;	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinguish (2) 84:14;86:16 district (1) 201:1 Ditto (1) 197:18 diverge (1) 114:10 diverse (3) 33:20;64:13;172:12	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8 DR (187) 10:4;12:8;13:11,15; 23:16,16,19;24:10; 25:2,4;30:9;31:9;32:9, 18,22,22;33:4;34:14, 17;35:1,3;36:8;38:6;	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14; 54:11;59:2;64:1,12, 16;65:12;66:16;67:1, 5,10;68:6,7,12;69:2, 12,15,17,22;70:9,10, 12,20,21;72:2,18; 73:12;74:21;76:5;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16 due (3) 70:9;112:22;173:13 duplicate (2) 38:11;39:15 duration (1) 105:20
219:17 Discovery (2) 76:20;82:20 discuss (7) 11:13;19:16;66:7; 87:22;110:11;112:17; 157:7 discussed (3) 85:10;191:21;214:3 discussing (4) 47:12;67:16;110:5; 152:4 discussion (12) 58:7;61:12;71:22; 122:18;127:18;156:9; 157:21;164:2,7; 190:17;205:6;216:10 discussions (6)	173:5;187:14;210:16; 219:12;220:4,15; 221:2;222:7,19 disposal (1) 223:8 dissatisfied (3) 236:14,15;237:1 distinction (1) 198:21 distinguish (2) 84:14;86:16 district (1) 201:1 Ditto (1) 197:18 diverge (1) 114:10 diverse (3)	donors (1) 187:17 dose (2) 58:13;83:7 doses (1) 209:12 doubt (2) 43:5;115:9 down (8) 15:22;32:21;45:14; 71:16;144:12;145:22; 167:21;225:21 downside (1) 34:8 DR (187) 10:4;12:8;13:11,15; 23:16,16,19;24:10; 25:2,4;30:9;31:9;32:9, 18,22,22;33:4;34:14,	driving (2) 62:18;117:1 drop (1) 225:5 dropping (1) 223:15 Drug (183) 10:14;11:9;12:10, 14;13:22;14:5,10; 16:7;17:10,14,18; 18:12;19:18;25:13; 26:22;28:20;29:12,19; 33:16,21;34:20,20; 35:13;41:10;42:20; 46:12,13;47:10;49:14; 54:11;59:2;64:1,12, 16;65:12;66:16;67:1, 5,10;68:6,7,12;69:2, 12,15,17,22;70:9,10, 12,20,21;72:2,18;	94:4;98:21;99:17,18, 20;100:1,4,12,15; 103:7,11;107:16; 129:2;132:21,22; 133:1,7,9,19,20,22; 134:2,8,18;135:13,17, 18;136:7;137:20; 141:17,18;144:15; 148:11;149:12,13; 151:1;157:16;169:9; 185:20;212:19;226:8 drug's (2) 42:1;75:11 Duchenne (2) 107:12,16 due (3) 70:9;112:22;173:13 duplicate (2) 38:11;39:15 duration (1)

	00	I		▲ /
12:19;29:7;56:5;	47:18;61:10;82:4,7;	17:11;43:16;	109:8;216:13	ensures (1)
99:9,16;108:6;109:22;	90:19;92:5,7;103:6;	107:18,22;117:8,18,	engage (26)	216:12
110:6,8,13;161:8;	105:6;107:21;108:2;	19,20;118:4,9;119:9;	20:5;30:5;42:5,9,	ensuring (2)
173:7;177:18;180:11;	134:8;135:15;136:3;	155:6;223:16	10;47:13;60:10;	103:6;141:18
	142:11;181:10	embarked (1)	96:19;103:3;104:8;	entails (1)
203:16;216:8;236:12		223:10		52:12
duties (1) 183:5	effectively (2)		106:12;108:5;163:17;	
	18:5;101:19	embrace (1)	170:5,5;176:12;	enter (2)
dying (1)	effectiveness (5)	121:8	181:19;182:1,12,13;	37:19;143:11
221:7	74:20;83:19,20;	emphasize (4)	189:10;192:18;	entered (1)
Dynna (1)	84:3;140:15	91:19;124:5;	193:11;210:13;	37:4
155:5	effects (6)	177:14;179:13	218:12,12	entire (4)
dystrophy (2)	41:13;86:17,17;	emphasized (1)	engaged (6)	108:13;114:8;
107:12,17	90:4;91:4;214:9	122:20	13:20;16:16;	115:3;157:13
Б	efficacy (4)	employee (2)	178:21;189:7;192:21;	entirely (2)
Ε	74:20,22;81:17;	181:13;203:18	220:12	62:21;65:3
	83:9	employees (7)	Engagement (55)	entities (6)
eager (1)	efficient (2)	105:20;176:12;	11:6;12:21;13:10,	68:13,21;87:5;
167:18	23:1;214:18	184:16;188:10;	21;21:5;25:5;33:5;	138:11;139:10;152:9
earlier (11)	effort (3)	198:11;203:15;208:19	35:15;39:3,14;42:15;	entity (3)
54:3;64:14;67:16;	165:8;211:18;	empower (1)	44:9;55:13;60:21;	130:17,19;136:1
88:2;108:6;115:21;	227:17	25:17	92:8,11;97:19;104:11,	entree (1)
165:7;166:22;200:6;	efforts (4)	empowering (2)	19;105:1;107:11;	17:6
218:6;230:20	30:21;141:7;	208:3;209:16	109:1,5;115:20;	entry (1)
early (29)	161:10;176:3	empowers (1)	123:22,22;138:3;	92:8
61:12,21;70:21;	eight (3)	218:9	155:21;157:1,2,9;	environment (1)
71:2,22;72:13;82:10;	93:2;184:3;210:4	enable (1)	166:20;169:8,21;	33:22
88:10;90:6;91:13;	Eighty (1)	109:3	170:4,8;171:9;172:17,	environments (1)
92:8,11;96:13,14,22;	26:17	enact (1)	20;183:19;184:8;	56:15
97:7;104:20;108:22;	either (8)	65:14	185:7,11,16,21;190:8;	epidemic (1)
172:7;176:6,6;178:2;	67:2;88:12;117:6;	enacted (1)	192:3,6;193:8;196:20;	176:7
179:2,19,19;180:3;	137:10;171:19;195:8;	141:6	202:17;203:3,4,13;	epidemiologically (1)
186:5;210:14;218:12	209:12;216:11	encompasses (1)	211:12	75:22
• (7)	-1.1	102.0	4 (3)	• • • • • • •
easier (3)	elderly (1)	103:8	engagements (2)	equivalent (2)
easier (3) 127:13;201:22;	19:4	103:8 encounter (1)	engagements (2) 56:20;203:7	equivalent (2) 89:20;133:12
127:13;201:22;	19:4	encounter (1)	56:20;203:7	89:20;133:12
127:13;201:22; 208:21	19:4 electronically (1)	encounter (1) 106:9	56:20;203:7 engages (2)	89:20;133:12 Error (2)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13	19:4 electronically (1) 153:21	encounter (1) 106:9 encountering (1)	56:20;203:7 engages (2) 50:22;137:17	89:20;133:12 Error (2) 80:15;81:8
127:13;201:22; 208:21 easily (3)	19:4 electronically (1) 153:21 elements (1)	encounter (1) 106:9 encountering (1) 68:6	56:20;203:7 engages (2) 50:22;137:17 engaging (17)	89:20;133:12 Error (2) 80:15;81:8 escort (1)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14)	19:4 electronically (1) 153:21 elements (1) 51:4	encounter (1) 106:9 encountering (1) 68:6 encourage (14)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5;	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2;	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1;	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11,	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20;	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1;
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14;	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13,	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7;	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3;
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1)	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8;
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9:54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13;	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1)	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9:54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19;	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5)	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19;	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8,	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4)	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19;
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17;	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3 educational (3)	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13) 24:11;31:16;36:21;	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2) 196:14,21	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4) 17:15;18:1;138:16;	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3) 34:5;36:14;168:17
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3 educational (3) 74:2,3;174:9	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13) 24:11;31:16;36:21; 114:21;115:2;117:4;	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2) 196:14,21 endpoint (2)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4) 17:15;18:1;138:16; 201:17	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3) 34:5;36:14;168:17 establishes (1)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3 educational (3) 74:2,3;174:9 effect (11)	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13) 24:11;31:16;36:21; 114:21;115:2;117:4; 118:1;121:19;122:2;	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2) 196:14,21 endpoint (2) 55:10;92:14	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4) 17:15;18:1;138:16; 201:17 enrollment (1)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3) 34:5;36:14;168:17 establishes (1) 215:15
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3 educational (3) 74:2,3;174:9 effect (11) 17:18;48:17,18;	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13) 24:11;31:16;36:21; 114:21;115:2;117:4; 118:1;121:19;122:2; 154:19;182:20;224:2;	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2) 196:14,21 endpoint (2) 55:10;92:14 endpoints (16)	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4) 17:15;18:1;138:16; 201:17 enrollment (1) 91:18	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3) 34:5;36:14;168:17 establishes (1) 215:15 establishing (2)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3 educational (3) 74:2,3;174:9 effect (11) 17:18;48:17,18; 72:13;75:7;84:6,14,	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13) 24:11;31:16;36:21; 114:21;115:2;117:4; 118:1;121:19;122:2; 154:19;182:20;224:2; 225:5	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2) 196:14,21 endpoint (2) 55:10;92:14 endpoints (16) 16:4;18:2;44:5;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4) 17:15;18:1;138:16; 201:17 enrollment (1) 91:18 ensure (7)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3) 34:5;36:14;168:17 establishes (1) 215:15 establishing (2) 170:2,8
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3 educational (3) 74:2,3;174:9 effect (11) 17:18;48:17,18; 72:13;75:7;84:6,14, 16;85:13;86:11;89:10	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13) 24:11;31:16;36:21; 114:21;115:2;117:4; 118:1;121:19;122:2; 154:19;182:20;224:2; 225:5 emailed (2)	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2) 196:14,21 endpoint (2) 55:10;92:14 endpoints (16) 16:4;18:2;44:5; 47:12;56:16;64:16;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4) 17:15;18:1;138:16; 201:17 enrollment (1) 91:18 ensure (7) 50:22;90:16,21;	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3) 34:5;36:14;168:17 establishes (1) 215:15 establishing (2) 170:2,8 establishment (1)
127:13;201:22; 208:21 easily (3) 34:19;36:10;117:13 easy (14) 15:6;28:12;32:2; 36:4;87:3,11;116:11, 20;117:4;118:14; 119:17;127:20;206:7; 220:21 eat (1) 79:17 eaten (1) 80:1 edge (1) 21:9 educate (5) 42:20;66:11,19; 212:5;214:7 education (4) 95:9;208:6;209:17; 220:3 educational (3) 74:2,3;174:9 effect (11) 17:18;48:17,18; 72:13;75:7;84:6,14,	19:4 electronically (1) 153:21 elements (1) 51:4 elevate (1) 19:8 elevation (1) 159:3 elicit (2) 59:4;66:1 Elizabeth (4) 80:13,18;81:3,6 else (6) 113:20;203:21; 223:18,19,21;224:1 EMA (7) 70:15,18;71:4;74:8, 9;171:4,7 EMA-FDA (2) 70:7;73:9 email (13) 24:11;31:16;36:21; 114:21;115:2;117:4; 118:1;121:19;122:2; 154:19;182:20;224:2; 225:5	encounter (1) 106:9 encountering (1) 68:6 encourage (14) 10:22;11:17,22; 22:15;39:13,13;42:2; 44:9;54:10;60:9;88:5; 97:6;202:5;225:7 encouraged (2) 208:7;216:8 encourages (1) 217:4 encouraging (3) 57:19;217:5,22 end (14) 10:8;27:12;38:21; 54:4;87:8;137:11; 165:13,22;184:13; 195:9;212:4;223:21; 231:11;232:2 endless (2) 196:14,21 endpoint (2) 55:10;92:14 endpoints (16) 16:4;18:2;44:5;	56:20;203:7 engages (2) 50:22;137:17 engaging (17) 27:17;28:3,7;40:5; 47:20;101:3;185:1; 196:4;203:5;208:20; 209:8;211:13;235:13, 20;236:4,5;237:10 England (1) 100:17 enhance (7) 49:11;54:1;169:13; 170:4;193:6;196:19; 203:7 enhanced (1) 103:22 enjoy (3) 29:22;30:6;156:19 enormous (2) 30:22;234:4 enough (4) 17:15;18:1;138:16; 201:17 enrollment (1) 91:18 ensure (7)	89:20;133:12 Error (2) 80:15;81:8 escort (1) 79:21 ESMR (4) 31:21;32:16;33:1; 115:12 especially (9) 30:18;64:10;86:3; 88:21;173:3;188:8; 207:22;211:4;212:15 essence (1) 160:13 essential (1) 37:1 essentially (2) 30:12;49:21 establish (3) 140:14;170:19; 212:18 established (3) 34:5;36:14;168:17 establishes (1) 215:15 establishing (2) 170:2,8

58:16	
ethical (1) 65:8	ev
etiology (1) 63:17	ev
Europe (2)	
113:17;159:4 European (3)	ev
77:8;98:21;171:4 evaluate (6)	ev
81:17,21;84:3; 91:20;174:15;205:4	ex
evaluated (3)	
81:20;82:16;83:12 evaluates (1)	ex
141:17 evaluating (1)	ex
141:9 Evaluation (21)	
10:15;11:9;12:10,	
19;25:13;27:1;46:12; 51:3;78:18;81:9;82:2;	ex
83:13;129:18,20; 137:1;142:1,4,9,20;	ex
160:8;183:18 evaluations (1)	ex
71:13	
even (36) 13:7;20:17;29:4;	ex
30:11;32:4;40:21; 41:7,12;42:18;43:20;	ex
54:10;63:18;66:16; 70:20,21;73:9;86:1,	ex
14;90:7;95:15;101:4,	
9;110:11,16;112:1; 113:3,13;159:8;	E
163:15;165:21; 166:13;172:7;174:12;	ex
199:12,18;221:8 event (2)	ex
28:16;29:4	
events (6) 16:9,18;130:8;	ex
139:11,19;206:12 eventually (1)	ex
224:5 ever-increasing (1)	ex
69:14 everybody (10)	ex
16:5;21:10;22:15;	ex
25:3,6,7;132:9; 152:16;204:22;217:1	ex
everybody's (1) 235:8	ex
everyday (1) 19:2	
everyone (24)	ex
10:4;24:8;26:15; 27:7;29:2;32:19;	ex
44:14;47:5;77:2;81:5; 121:9;127:5;128:18;	ex
143:11;144:8;146:18; 147:18;195:15;205:3;	ex
1	~/

231:14,22;232:6; 233:5:234:10 vervone's (2) 28:7;120:15 vidence (6) 16:1,2;83:21,22; 87:13;215:13 volved (1) 176:7 volving (3) 186:4;192:3;197:5 xactly (2) 65:1:199:11 xamine (1) 112:12 xample (17) 16:13;18:9;52:2,17; 53:6;66:4;113:17; 149:15,21;150:11; 151:9,18;152:12; 153:3,8;181:22;191:8 xamples (2) 87:4;190:7 cellent (2) 101:11;155:12 scept (3) 18:18;99:10;144:9 xchange (1) 23:11 cited (5) 25:11,15:179:9; 208:20:230:7 citing (2) 176:4;218:16 xecutive (3) 148:16;212:4; 213:18 xemption (2) 74:17;75:10 xhausting (1) 145:1 xhaustive (1) 212:21 xist (2) 55:2;65:11 xistence (1) 110:11 xists (1) 105:2 x-Marine (1) 168:21 xpand (3) 94:12;98:11;174:1 xpanded (2) 139:4,5 xpanding (1) 161:10 xpect (4) 21:11;43:3;220:5; 233:20 xpectations (2) 33:20;231:15 xpected (1)

172:1 expedited (1) 144:16 expense (1) 11:3 expensive (1) 120:17 experience (57) 33:15;46:21;47:14; 48:4;49:18,19,20; 50:6,8,11,15;51:5,13, 16;52:5,14,18;53:22; 54:8,13,15,22;55:1,8; 57:2,16;58:8,21; 59:15,20;60:5;66:13; 88:1;90:15;91:1; 94:11,13;171:15,20; 173:2;178:5,11;195:7; 197:6;199:5;201:13; 207:2,6,14,18;210:18; 212:6;214:5,13;216:3; 217:13:218:10 experienced (1) 213:7 experiences (13) 53:19;105:7;160:6; 170:5;171:2;173:18; 177:5;178:1,12;181:5; 203:5,6;217:18 experiencing (1) 52:7 experiential (1) 97:17 experimental (2) 88:18:89:19 expert (1) 146:22 expertise (3) 57:22;182:11; 194:12 experts (10) 28:4;42:7;54:3,20; 57:21;78:18;84:5; 160:20;194:11;217:17 explain (2) 73:6;102:7 explains (2) 23:6;145:5 explicitly (1) 218:20 explore (2) 51:22;121:3 exploring (1) 52:8 export (1) 103:12 express (4) 106:17;110:2; 211:21;218:6 expressed (1) 91:17 extensive (1) 192:16

extent (1) 56:6 External (20) 31:21;33:18;34:2, 19;66:1,20;67:13; 89:12,16;93:7;104:21; 13 115:22;161:10;162:5, 6:167:3.10:170:2; 174:15;185:22 externally (1) 67:3 externally-led (8) 79:4:159:11: 160:17;167:1;190:3; 191:2;212:22;227:8 extremely (2) 16:20;152:2 18 extroverts (3) 97:12,13,13 F face (1) 16:21 Facebook (3) 108:4;219:14,18 face-to-face (1) 68:1 facilitate (5) 61:19:65:11:70:8; 72:19:87:17 facilitating (1) 218:2 facilitator-led (1) 164:7facilities (1) 16:19 facing (2) 13:19:33:3 fact (25) 24:8,15:32:9,20; 62:17;70:9;76:18; 80:18;102:10;112:22; 113:9;147:10;148:11; 150:20;155:22; 158:22;168:3,18; 175:4,8,15;183:20,22; 184:1;221:22 fact-finding (1) 40:18 factored (1) 218:20 factors (3) 37:2;59:6;99:9 facts (2) 111:15;113:9 FAERS (2) 140:6,8 fair (2) 114:12;118:13 fairly (3) 63:20:66:6:84:4 fairness (1)

111:9 fall (3) 73:10,16;172:7 false (6) 100:5,8;206:6,7,10, familiar (3) 24:2:47:8:49:10 family (4) 54:16:108:11; 171:17;175:7 far (14) 44:7;54:7;63:4; 89:7;91:3,18;94:21; 110:17;151:8;175:16; 184:13;212:20;228:7, fashion (2) 66:10;200:14 fast (2) 18:1:232:1 faster (1) 109:6 fastest (4) 24:16;98:21; 100:12,15 fast-track (1) 69:7 FDA (176) 11:8;12:10,12,20, 22:13:21:14:3,7.8; 18:18:20:15:21:16: 25:12,22;26:9,15; 28:19;29:21;30:5,14; 36:13,15;37:18;40:5; 42:18,19;43:21;46:22; 47:13,16:48:8:49:15; 51:14;54:9;55:2,16; 56:11;58:15;61:1; 63:2;67:2,12;70:16; 72:19;77:4,16;78:7, 18,20;80:7,7;92:11; 93:20;96:16;99:8,17; 100:3,14,20;104:13, 20;106:15;107:14; 108:4,4,5;109:15; 111:1,11;113:15; 115:12;116:2;118:15; 119:19;122:8;123:3; 124:17;128:20; 129:11:130:5,6; 131:11,16;137:20; 139:11,18;141:17; 148:8,18;149:20,22; 150:3,5,7,8;151:15; 152:15;153:3;154:22; 155:2,19;157:3,12; 160:18;161:6;162:6, 16,20;164:6,19; 166:11:170:2,13; 176:5;177:1,11; 181:17:182:19; 184:19:195:20;

CDER and Tou: Reys to	Effective Engagement	1	r	April 3, 201
107.11.200.7.201.22.		200.7.210.2.211.17.	fallowed (2)	forter (2)
197:11;200:7;201:22;	FEMALE (6)	209:7;210:2;211:17;	followed (2)	foster (3)
203:6;205:8;206:4,13,	37:16;57:5;59:22;	213:16;225:10;234:11	133:4;224:2	47:17;97:5;141:8
21;207:21;208:7,20;	200:17;202:15;204:3	firsthand (1)	followers (1)	fostering (1)
209:4,8;210:1,2,15,	festival (1)	182:8	131:5	170:22
19;211:11,13,21,22;	102:12	fish (1)	following (4)	found (2)
212:6;213:5,6,15;	few (18)	148:13	29:5;99:9;205:4,5	14:16;62:18
214:7,16;215:5,12;	13:7;26:2;64:3;	five (21)	Food (4)	foundation (2)
216:6,16;217:4,8,20;	84:19;97:12;100:20;	20:15;29:18,21;	83:17;98:22;99:6;	90:1;92:22
218:3,9,12;219:1,4;	106:5;124:15;128:10;	106:2,3;128:11;129:8;	100:11	foundations (1)
220:8,11,12;222:17;	158:22;167:20;177:6;	145:17;163:7;192:5,	force (3)	54:18
223:2,12;224:12;	191:10,17,19;192:10;	22;193:16,20,22;	67:19;99:19;123:18	founded (3)
226:8;227:16,18;	209:10;235:5	194:3,17;195:3,12;	forced (1)	209:9;219:12,20
228:8;229:6,9,11,21;	field (1)	196:7;197:5;208:19	220:19	founder (1)
230:17;232:18	54:20	fix (1)	forecast (1)	93:1
FDA_drug_info (1)	fierce (1)	21:19	177:22	four (9)
28:20	213:21	flagship (1)	forefront (1)	12:20;80:19;
FDA-approved (1)	figuratively (1)	176:10	134:22	124:16;156:15;
138:10	118:15	flavoring (1)	foremost (2)	175:22;199:8;205:2;
	figure (7)	151:20	170:10;178:4	210:11;213:13
fdagov/requestameetingondrugs (6)				
45:17;46:1;61:16;	15:6;23:5;31:10,16;	flexible (1)	forever (1)	four-year (1)
118:13;212:8;237:9	97:7;143:14;168:14	71:9	150:22	198:12
fdagovrequestameetingondrugs (1)	figured (1)	flight (1)	forget (1)	FOXWORTH (12)
79:1	87:1	120:17	23:21	40:2,2;94:9,9;
FDA-led (5)	figuring (2)	floundering (1)	forgive (1)	207:5;219:7,8,8;
		23:3	62:22	
161:18;163:6,20;	46:3;96:10			225:14;231:1,7;
165:19;220:16	fill (3)	flowchart (2)	forgot (1)	232:11
fdapatientrepprogram@fdahhsgov(1)	133:9;158:14;	115:15,17	158:21	FR (1)
182:21	215:13	fly (1)	form (19)	149:21
FDARA (1)	final (14)	120:16	35:22;36:17,19,19;	fractured (1)
170:22	78:16;103:18;	focus (11)	37:17,19;38:1,8;40:9;	111:22
FDA's (8)	128:6;140:13;143:11,	52:3;59:4,18;104:7;	79:2;116:11,14;128:2,	frames (1)
108:20;141:7;	12;144:11;166:7;	111:14;119:15;164:3;	3;129:17;131:2;	231:14
142:20;159:10;160:1,	168:20;234:1,3,7;	219:1;220:2;229:1;	132:14;200:14;217:10	framework (4)
15;162:10;209:20	236:9;237:6	231:13	formal (3)	89:4;90:6,10;97:19
features (1)	Finally (8)	focused (6)	60:2;156:13;176:13	frankly (2)
88:20	14:14;27:16;35:20;	58:22;96:16;164:3;	format (2)	220:20;224:8
	107:3;112:8;114:6;	169:9,11;222:21	164:4,5	free (7)
February (2)				
35:7;147:12	215:7;236:15	focusing (3)	formats (1)	28:18;37:12;38:8;
Federal (9)	find (17)	34:3;58:6;59:8	55:5	78:22;79:15;114:22;
14:11;18:17;107:4,	10:13;14:15,19;	FOIA (3)	formed (1)	115:4
8;149:18,20;150:2;	25:7;29:3,20;31:12;	151:7,8,10	185:9	free-form (1)
162:20;215:2	32:15;95:17;98:5;	folks (48)	forms (2)	39:17
fee (4)	112:2;117:2;121:6;	10:8,10;24:6;32:3;	140:1;149:11	frequency (1)
131:1,3;132:13,15	150:14;173:18;	38:12,13;39:18;41:16;	formulate (2)	53:14
feedback (2)	224:12;227:1	42:18,20;43:9,18;	21:7;22:10	frequently (3)
174:15;216:12	fine (2)	45:1;61:1,4,22;62:5;	forth (15)	64:21;65:1;72:18
feel (16)	121:8;137:6	74:8;79:19;100:19;	14:7;16:4,19;17:19;	Friday (1)
28:18;37:12;44:4;	finish (3)	120:14,16;123:17;	18:10;19:12,20;20:10;	151:19
48:18;56:14;58:9;	129:10;133:13,21	162:15,19;163:8;	21:20;56:9;57:2,15;	friend (3)
101:12;114:22;115:4;	firmly (1)	164:9,16;167:8;	59:3;123:2;201:5	102:2;121:14;
122:10;159:16;182:4,	21:19	182:10,18;184:12;	fortune (1)	171:17
5;205:6;217:2;218:9	First (42)	189:9;191:20;194:7;	233:9	friendly (2)
feelings (2)	14:1;19:5;20:15;	195:5,10,11,20;	forum (3)	225:14,15
50:2;53:20	25:6;26:6,8,14;40:4;	201:22;202:4;230:7;	169:22;170:19;	friends (3)
feels (4)	51:19;58:20;61:8;	231:12;232:21;	203:4	38:16;46:8;233:15
48:20;49:3;85:9;	69:6,12;74:15,22;	233:12,13,16,20	forums (1)	front (4)
161:7	77:3;85:21;104:9;	folks' (1)	209:18	76:18;124:17;
feet (1)	116:4;117:10;129:1;	72:19	forward (15)	144:13;179:11
159:5	148:14;152:6,17;	follow (11)	29:1;41:3;160:9;	fruitful (1)
fellow (2)	156:20;158:6;167:17;	28:18,19;95:12;	174:17;176:4;192:1;	216:17
25:4;30:10	169:20;170:10;172:6;	96:5;112:20,20;	205:14;214:15;219:3;	fruits (1)
fellowship (1)	177:13;178:4;183:14;	114:18;122:1;147:21;	224:18;225:1;226:21;	72:1
171:3	192:15;201:3;202:16;	175:6;218:11	227:21;228:1;237:10	frustrates (1)
	1/2.13,201.3,202.10,	1,0.0,210.11	227.21,220.1,237.10	

	88			April 5, 2010
110:14	aama (3)	182:17	191.12.199.10.	35:2;55:3;57:1,7,10,
	game (3)		181:12;188:10;	
frustrating (1)	127:12;135:21;	giving (4)	198:11;203:15,17	14,15;58:3,7,20;59:7,
101:10	193:4	70:20;71:1;110:1;	grab (1)	8,13,16;65:16;94:11;
full (4)	games (1)	163:3	204:22	97:4;107:14,16;
43:3;97:10;165:11;	98:9	glad (2)	grant (1)	193:19;195:14;
175:9	gaps (1)	79:10;168:2	210:15	214:12,14;219:1
full-day (2)	215:13	glean (1)	graph (1)	guidances (9)
163:15;226:9	gardener (2)	200:8	68:12	58:15;59:2;107:6,
full-time (1)	24:10,14	gleaned (1)	grateful (1)	12;194:14,16;195:4;
208:19	gardening (1)	92:2	210:5	197:9;213:5
	24:12			
fully (1)		glimpse (1)	gratitude (1)	guide (1)
20:4	garner (1)	167:9	211:22	194:18
fun (26)	153:10	glossary (2)	Great (22)	guideline (1)
10:17;24:8,15;32:9,	garnered (1)	160:10,12	32:21;40:9;60:15;	225:21
20;62:16;76:18;	151:20	go-ahead (1)	73:3;92:20;96:8;	guidelines (2)
80:18;102:10;124:14,	Gastroenterology (2)	34:22	102:13;122:5,12;	201:4,21
16;125:2;147:10;	80:15;81:7	goal (11)	148:11;159:9,19;	gun-shy (1)
155:22;158:22;168:3,	gather (2)	11:6;23:12;28:6;	168:7;171:3;179:7;	179:10
18;169:1;175:4,8,9,	136:19;173:17	40:21;42:19;43:15;	205:14;209:3;210:22;	guys (13)
15;183:20,22;184:3;	gauge (2)	44:7;45:8,9;173:22;	223:11;230:16;	25:7,15,22;26:3;
209:13	153:12;190:13	215:17	236:19;237:2	27:15;29:6;45:13;
function (4)	gave (1)	goals (4)	greater (1)	60:15;145:19;224:8;
48:19;56:14;217:2;	117:18	82:3;198:8;213:19;	70:13	225:20;234:15;237:3
234:14	GDUFA (1)	214:7	greatly (1)	
functioning (1)	132:12	God (1)	110:10	Н
90:22	gears (1)	113:19	group (32)	
functions (6)	16:20	goes (11)	17:5;22:9;50:21;	Hala (1)
26:22;29:8;48:20;	gene (3)	16:8;18:11;37:6;	52:3;53:7;57:20;60:2,	233:18
49:3;85:10;234:16	134:20,21;188:1	83:4;96:12;111:6;	2;67:1;73:18;75:13;	half (4)
fund (1)	general (10)	123:21;134:15;148:9;	76:2,6;93:4,7;111:21,	12:20;113:11;
21:16	16:22;38:18;76:3;	218:2;231:7	21;112:4;153:8,11;	116:21;182:12
funded (3)	157:4,10;160:2;	Goetzel (19)	163:6;164:7;165:17;	hallmark (1)
Tullueu (3)	137.4, 10, 100.2,	Gueizei (19)	105.0,104.7,105.17,	папшагк (т)
	195.16.109.20.202.9.	24.7.25.1 2 2 10 15.	170.0.105.11 10.	
18:5,6;21:15	185:16;198:20;203:8;	24:7;25:1,2,3,10,15;	170:2;185:11,12;	84:13
18:5,6;21:15 funding (1)	204:4	26:13,20;27:7,21;	186:22;191:22;	84:13 hammer (1)
18:5,6;21:15 funding (1) 215:2	204:4 generally (9)	26:13,20;27:7,21; 30:3;145:5;146:3;	186:22;191:22; 209:21;211:11;	84:13 hammer (1) 209:6
18:5,6;21:15 funding (1) 215:2 funds (1)	204:4 generally (9) 52:12;151:2;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3;	186:22;191:22; 209:21;211:11; 213:15;220:1	84:13 hammer (1) 209:6 hand (3)
18:5,6;21:15 funding (1) 215:2	204:4 generally (9)	26:13,20;27:7,21; 30:3;145:5;146:3;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44)	84:13 hammer (1) 209:6
18:5,6;21:15 funding (1) 215:2 funds (1)	204:4 generally (9) 52:12;151:2;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3;	186:22;191:22; 209:21;211:11; 213:15;220:1	84:13 hammer (1) 209:6 hand (3)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16;	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4,	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1;	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43)	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20;	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14;	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8,	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1,	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19;	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9;	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1)	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19 G	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4 GI (1)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3 Google (1)	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21 guess (2)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13 happy (2)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19 G gadget (1)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4 GI (1) 96:2	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3 Google (1) 29:20	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21 guess (2) 97:12;237:6	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13 happy (2) 96:5;174:19
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19 G gadget (1) 234:20	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4 GI (1) 96:2 given (8)	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3 Google (1) 29:20 Gottlieb (1)	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21 guess (2) 97:12;237:6 Guessing (1)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13 happy (2) 96:5;174:19 hard (14)
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19 G gadget (1) 234:20 Gadhiya (1)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4 GI (1) 96:2 given (8) 40:13;67:10;85:14;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3 Google (1) 29:20 Gottlieb (1) 210:18	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21 guess (2) 97:12;237:6 Guessing (1) 43:2	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13 happy (2) 96:5;174:19 hard (14) 16:20;31:10,11;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19 G gadget (1) 234:20 Gadhiya (1) 126:12	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4 GI (1) 96:2 given (8) 40:13;67:10;85:14; 113:18;151:15;194:7;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3 Google (1) 29:20 Gottlieb (1) 210:18 government (9)	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21 guess (2) 97:12;237:6 Guessing (1) 43:2 guests (1)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13 happy (2) 96:5;174:19 hard (14) 16:20;31:10,11; 39:12;42:4;64:15;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19 G gadget (1) 234:20 Gadhiya (1)	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4 GI (1) 96:2 given (8) 40:13;67:10;85:14; 113:18;151:15;194:7; 195:5;218:21	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3 Google (1) 29:20 Gottlieb (1) 210:18 government (9) 105:20;149:10;	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21 guess (2) 97:12;237:6 Guessing (1) 43:2 guests (1) 123:17	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13 happy (2) 96:5;174:19 hard (14) 16:20;31:10,11; 39:12;42:4;64:15; 95:17;111:10,12,16;
18:5,6;21:15 funding (1) 215:2 funds (1) 18:10 Furia-Helms (7) 168:11,12,16; 196:12;199:1;200:1; 203:2 further (4) 53:9;82:11;83:20; 211:10 Furthermore (3) 153:16;208:14; 221:6 furthers (1) 176:19 future (5) 104:4;157:9; 164:16;197:12;219:4 FY (1) 136:19 G gadget (1) 234:20 Gadhiya (1) 126:12	204:4 generally (9) 52:12;151:2; 152:13;156:22; 179:17;180:15; 183:14;203:4;204:7 generate (1) 161:17 generic (11) 16:13;17:15;19:19; 96:5;132:13,15; 133:19,20,22;141:18; 150:12 genetic (1) 63:16 genetics (1) 63:13 Gerber (1) 175:13 gets (8) 43:6;63:13;85:12; 144:14;151:3,4;153:1; 218:4 GI (1) 96:2 given (8) 40:13;67:10;85:14; 113:18;151:15;194:7;	26:13,20;27:7,21; 30:3;145:5;146:3; 234:2,7,8;235:3; 236:2,19 golden (1) 210:20 Good (43) 10:4;17:15;24:13; 25:7,10,16;32:19; 37:22;38:18;39:14; 45:18;47:5;65:18; 77:2;81:4;98:17; 102:2;113:21;118:8, 22;123:10,20;124:4; 132:16;137:6;138:3; 140:5;141:14;142:5; 143:10,10,14;146:18, 19;147:18;149:19; 164:18;191:6;202:3; 207:2,18;231:21; 235:10 Goods (1) 99:3 Google (1) 29:20 Gottlieb (1) 210:18 government (9)	186:22;191:22; 209:21;211:11; 213:15;220:1 groups (44) 15:10,10;33:20; 34:10,15;38:19;39:4, 5,6;42:14;56:4;59:18; 67:6,13;68:1,4;72:18; 75:18;96:3;103:16,20; 106:13;112:2;124:16; 162:5,17;163:11; 165:17,21;171:19; 177:17;185:9;186:1, 16;189:18;204:9; 209:4;210:9;211:19; 213:12;219:15,17; 229:1;231:20 growing (3) 161:9;178:20;181:7 grown (1) 219:21 guards (1) 78:21 guess (2) 97:12;237:6 Guessing (1) 43:2 guests (1)	84:13 hammer (1) 209:6 hand (3) 43:8;191:9;198:2 handful (1) 66:9 handle (3) 148:20;149:2; 151:12 hands (4) 32:8;191:4,14,17 happen (8) 20:13;79:21;90:11; 110:16;111:4;220:7; 229:12;233:21 happened (3) 110:17;161:8;194:4 happening (3) 101:18;127:16; 159:17 happens (4) 29:3;82:18;159:15; 181:13 happy (2) 96:5;174:19 hard (14) 16:20;31:10,11; 39:12;42:4;64:15;

CDER and Tou: Reys to	Encenve Engagement	1	1	11p11 3, 2010
233:22	11:7;21:5;22:8;	highlighting (1)	117:8;192:8;	163:21;166:16
harms (1)	24:2;37:19;46:5;	47:20	194:18;197:16	identity (2)
218:18	47:17;54:20;55:15;	highly (3)	host (2)	148:13;149:16
Hart (12)	57:22;61:18;64:9;	18:15;89:14;106:7	177:10;233:11	ill (1)
80:13,14;81:1,3,4,6;	65:15,18,20,22;66:11;	hire (1)	hosted (1)	14:5
92:18,20;93:5;94:3,	67:3,5,7,14,21;68:4,7,	97:13	162:7	illegal (1)
16;95:3	9;70:18,22;71:1,8,10;	Hiren (1)	hot (1)	114:4
hashtag (1)	72:19;74:4;89:9;91:2;	126:12	148:2	imagine (4)
28:21	92:11;95:20;100:19;	historically (1)	hottest (1)	110:22;111:6;
haunted (1)	102:3;108:19;109:8;	42:11	147:13	151:16,22
32:13	152:11,22;160:5;	history (15)	hour (2)	immediate (2)
HD (1)	165:4,6;169:12;	14:6;64:3;67:22;	116:21;118:2	63:6;169:17
74:16	194:18;199:10;202:4;	87:22;88:7;89:2,19;	hours (5)	immediately (1)
head (1)	209:2;211:2,10;	90:2;92:13;93:8,14;	124:15;163:17;	170:16
192:12	212:17;213:6,19;	109:10;147:19;	175:2;212:10;233:8	immune (1)
heads (2)	216:4;217:10,11,20,	210:17,20	House (2)	208:3
15:13,22	20;224:12,16;225:3;	hit (1)	102:11;167:5	impact (6)
headway (1)	227:1,19,20;229:11,	168:20	housing (1)	41:17;88:20;90:22;
201:6	21	HIV (1)	167:4	162:1;214:10;216:2
health (13)	helped (6)	176:7	Huddle (1)	impacts (4)
17:14;33:4;39:6; 48:4;74:15;77:19;	13:16;19:7;68:2;	hmmm (1) 113:5	127:9 hugo (3)	50:11;51:8,9; 199:17
48:4;74:15;77:19; 99:1;103:6;175:1,17;	224:17,21;227:4 helpful (6)	HO (2)	huge (3) 13:6;14:18;82:17	impetus (2)
208:13;214:21;218:8	57:6;155:1;174:13;	59:11,12	human (4)	118:10;170:9
healthcare (9)	178:17;223:13;224:15	hoc (3)	134:20,20;140:14;	importance (5)
25:20;34:16;77:5;	helping (3)	106:14;115:12;	154.20,20,140.14,	47:20;53:21;
134:6;137:18;138:7;	25:22;30:22;70:8	212:5	humanitarian (2)	122:21;179:13;210:19
162:22;210:6;218:10	helps (4)	hold (2)	74:17;75:10	important (77)
Healy (3)	138:6;213:7;218:9;	189:15;200:22	humans (1)	21:4;22:3;39:1;
73:2,2;126:12	233:5	holding (2)	82:16	47:15;48:2;49:7;
hear (39)	Hematology (3)	219:16;230:17	hundred (3)	50:12,13;52:8;53:14;
13:2;17:8;22:21;	38:17;121:17;	holds (2)	66:6,15;129:8	56:15;59:4;63:7;64:7;
25:10,16;29:12;41:8;	212:11	103:11,19	hundreds (1)	68:11;70:4;75:18;
46:14;61:20,22;62:9;	Hendrix (1)	holistic (1)	17:21	82:3;83:2;84:14;
76:22;80:21;96:13;	147:21	211:2	hurdle (1)	85:11,12,17;87:10;
109:14,17;112:12,16,	here's (3)	home (2)	222:22	88:14,21;91:6,12;
19,20;122:5,12;147:6,	15:19;128:9;182:16	206:19;209:6	hurdles (1)	92:3,9;102:5;104:14;
15;155:19;158:2;	herself (2)	homework (1)	68:5	108:8,11,17,18;
162:15;167:16;	123:14;183:5	193:13	hurtful (1)	109:12,13;122:19;
170:15,17;176:17;	heterogeneity (1)	homogeneous (5)	76:19 husband (2)	123:7;124:4,8;128:9;
184:9;194:8;199:11; 200:4;207:1;225:18;	93:13 heterogeneous (2)	89:8;228:9,17,17,17	husband (2) 168:19,21	149:5;153:14;154:4, 12,14;158:6;161:21;
200:4,207:1,225:18, 237:2,8	86:6;228:14	honest (1) 100:9	108.19,21	165:14;166:6;170:16;
heard (18)	Hey (4)	honestly (2)	Ι	174:10;176:17,20;
18:16;42:8;64:14;	122:2;150:15;	161:13;165:13	*	177:15;178:13;
72:15;104:20;108:6;	152:19;225:19	honor (1)	idea (10)	179:13,15;180:9;
154:3;157:15,20;	Hi (7)	45:10	43:4;120:20;121:3;	183:5;184:9,20;191:6;
158:1;170:18;184:18;	37:16;59:22;74:13;	honored (1)	123:21;181:14;	207:1;208:12;210:14;
189:19;205:5;208:8;	92:21;94:9;158:19;	218:21	182:17;216:20;	211:6;213:14,16;
221:9;228:16;230:19	219:8	hope (12)	220:20;221:8;224:21	217:3;218:8,11;229:3;
hearing (7)	high (10)	117:8;148:17;	ideal (1)	230:8;232:10
29:1;44:12;91:17;	24:16;51:17;62:20;	157:8;159:15;168:8;	202:2	importantly (3)
112:14;167:19;186:8;	121:19;137:16,16;	172:6;195:4;197:4;	ideas (2)	211:7;214:16;
233:4	188:3;209:12;221:7,	204:13,14;220:3;	211:20;225:4	229:10
heart (1)	14	233:8	identified (1)	imported (3)
159:7	higher (2)	hopeful (2)	119:10	14:17;99:18;100:1
heights (1)	17:20;76:3	133:22;195:12	identifies (1)	impossible (1)
159:7	highest (2)	hopefully (11)	215:16	70:11
hell (1)	22:17;159:3	10:20;14:21;22:22;	identify (7)	impression (1)
138:18	high-level (1)	27:12;32:6;71:7;	71:8;88:16;108:17;	101:20
Hello (1)	183:16	101:1;156:18;174:1;	161:15;166:17;	impressive (1)
25:3 help (68)	highlight (2) 34:3;84:18	195:14;237:9 hoping (4)	199:11;215:6 identifying (2)	26:1 improve (8)
neih (00)	34.3,04.10	nohmä (4)	identifying (2)	mprove (a)

20:7.7.10:137:19; 173:14:212:19: 214:22;217:2 improved (1) 109:6 improvement (2) 48:21;64:19 improving (3) 63:14;208:12; 213:21 inaugural (1) 172:6 Inborn (2) 80:15;81:8 inbox (1) 37:6 incentive (1) 67:9 include (11) 48:5;50:9,10;58:7, 8:123:18:134:19: 148:21;174:5;182:20; 217:8 included (3) 160:10;213:17; 214:11 includes (12) 48:21:49:13:50:1; 51:20;54:15,16;55:12; 87:20;148:10;153:2, 20:154:7 including (11) 77:8;84:15;100:17; 137:18:162:20: 172:15;174:9;176:8; 183:15;187:8;212:1 inconsistency (1) 114:7 incorporate (8) 46:21;49:15;58:17; 103:12;111:19;112:7, 16;194:21 incorporated (1) 160:7 incorporates (1) 49:21 incorporating (2) 171:1;197:1 increase (1) 236:3 increased (4) 33:17,17;214:20; 215:1 increasing (3) 63:12;104:14;185:7 IND (9) 20:17;23:20;30:16; 70:21;71:2;82:15; 83:4;89:22;132:1 independent (2) 112:21:146:22 Indian (3)

indicate (1) 101:17 indicates (1) 79:3 indication (1) 193:21 indirect (1) 171:20 individual (7) 49:3:50:20:54:11; 91:22;93:11;124:6; 169:7 individually (1) 211:3 individuals (6) 56:20;60:3;84:1; 219:11;220:4;222:1 indoor (1) 162:10 industries (1) 34:6 industry (9) 31:20;34:6;39:5; 87:18;103:15;111:20; 195:10;210:8;226:3 ineffective (1) 20:17 inefficient (1) 20:19 infancy (1) 169:3 infected (1) 187:19 infectious (1) 187:17 influences (1) 84:15 inform (20) 21:10;22:19;46:21; 53:22:55:9,18:65:20; 66:1:67:5:78:9:89:7: 90:15:91:2:93:14; 136:22;158:3;160:22; 194:21;211:10;216:5 information (72) 10:11,12;11:15; 12:6;17:10,13;19:1; 20:8,19;22:16;28:17, 20;35:13,15,19;36:10, 20;37:1;38:3,4;40:17, 21;41:9;42:11,13,14; 44:6;50:8;58:17; 60:20;61:9,13;67:16; 73:3;78:11;92:2,4; 94:20;95:8,16;96:7, 11;97:8;102:9; 110:21;112:1;115:9; 131:10;134:5,7,13,14; 151:6;166:5;167:8,10, 11:172:18:181:6; 182:8:185:13:188:11: 190:9;195:5;198:16; 200:8,13;203:12;

205:7;215:15;217:13; 236:12 informative (4) 10:21:134:5: 195:15:204:19 informed (7) 21:6;22:3,7;50:19; 158:3;197:14;216:4 informing (2) 71:17:92:9 initial (2) 38:3:40:16 initially (1) 76:8 initiated (1) 199:21 Initiative (12) 12:16;49:11;67:22; 78:10;136:19;141:7; 159:21;160:1;161:3; 169:20;170:1;172:22 initiatives (6) 12:11:78:6:194:9: 198:8;208:18;213:19 innovation (1) 141:8 in-person (1) 44:11 input (13) 47:17:50:19:55:18; 103:12,22;104:14; 160:21:166:10: 194:20:211:16; 214:14;218:22;225:10 inputs (3) 50:11;59:10;161:18 insatiable (1) 17:13 insert (1) 134:5 insight (3) 80:17:108:9.9 inspiration (1) 220:3 instance (6) 42:1;187:14,21; 188:9,22;189:2 instances (4) 50:17,18;101:4,6 instead (1) 151:11 Institutes (1) 77:19 institutions (1) 210:7 instructions (1) 127:22 instructor (1) 47:1 instruments (1) 87:1 insurance (1) 100:4

intake (1) 35:22 integrated (2) 17:20:216:14 integrating (2) 33:15:109:2 intended (2) 50:7:136:9 intensive (1) 163:8 intent (6) 76:7;79:2;164:22; 165:1;201:4,10 intention (1) 61:6 interact (9) 11:19;15:5;19:13, 14;22:6;25:11;66:22; 98:3:233:10 interacted (1) 191:7 interacting (1) 207:7 interaction (7) 21:9;69:9;72:19; 98:1;210:2,3;218:3 interactions (3) 33:18:50:3:65:16 interactive (3) 24:4:164:8,12 interactively (1) 77:21 interchangeability (4) 93:22:95:8.11:96:6 interest (14) 10:6;79:4;108:14; 153:8,11,13:161:10; 168:7:178:19.22: 180:17;199:3;203:12, 15 interested (11) 25:21;44:12;101:2, 16,21;153:7;167:15; 180:6;182:22;222:22; 231:17 interesting (5) 107:10;157:9; 168:3;183:9;196:8 interests (1) 231:20 interfaces (1) 17:3 interior (1) 147:12 internal (5) 66:2;74:4;174:15; 177:20;190:1 Internally (5) 66:11;67:7;182:2; 192:2;231:12 international (3) 66:21:70:11:77:7 internet (3)

29:17:62:20:219:14 internship (1) 30:12interpretation (2) 52:1:113:8 interpreted (1) 75:15 interrupt (1) 11:20 interrupted (1) 168:2 intersect (1) 179:17 intervention (1) 48:17 interventional (1) 215:22 interventions (1) 221:5 interview (2) 53:8,17 interviews (1) 52:4 intimate (1) 226:10 intimidated (1) 226:20 into (39) 14:17;17:6;26:1; 33:10,12,16;35:20; 38:20:49:17:57:17: 71:17:73:11:80:4.17: 92:8:95:13:97:18: 103:2.12.22:105:10: 109:2;112:7,12; 124:16;151:9;159:20; 160:7,17:164:8:166:5: 169:15;176:8;178:16; 180:1;194:2;216:14; 218:20;220:9 introduce (7) 13:11;46:17;62:11; 155:20;156:4,14; 158:9 introduced (1) 12:12 introduces (1) 114:4 introduction (2) 102:18;183:17 **Introductions (1)** 10:3 introverts (1) 97:10 invaluable (2) 227:18;229:18 investigation (1) 89:5 investigational (5) 82:15:132:3.5: 139:1:188:13 investigations (2) 23:5;84:1

102:12,12;175:12

<u></u>				F
investigators (1)		223:10,14;226:9	161:2	Larry (2)
77:7	J	judged (1)	kids (1)	62:1,4
invitation (1)	J	10:21	156:10	laser (1)
149:22		judging (1)	kind (26)	148:10
invitations (1)	jacket (1)	16:1	15:3;17:7;22:2;	Last (35)
	202:12			
190:5	JAMA (1)	July (1)	29:9;31:15;44:1,13;	16:12;35:20;45:11;
invite (4)	47:19	147:13	60:3;68:16;69:3;	60:14;62:17;68:20;
106:15;123:3;	James (1)	jump (3)	98:16;119:17;147:20;	69:11;70:6,17;71:14,
189:13;207:4	214:2	159:20;160:16;	156:22;170:19;	16;72:13;100:3;
inviting (1)	Jamie (2)	235:4	173:12;174:10;176:1;	104:12;114:6;117:5;
207:22	76:17:77:1	jumping (1)	180:1;182:17;202:21;	120:17;124:15;
involve (4)	Janay (1)	41:4	209:6;220:10;230:9;	137:11;151:19;156:5;
69:9;151:1;198:15;		June (4)	232:6;233:3	171:6;175:2;182:16;
213:16	126:12	57:15;59:8,13;	kinds (3)	192:4,13;196:1;202:8;
involved (17)	Janet (3)	160:11	58:10,18;65:13	214:19;215:7;226:1;
	12:8;13:11,14			
81:14;82:9,9,11;	Jansen's (1)	Jungha (1)	knew (6)	227:6;231:1;236:10,
84:3;104:12;142:20;	92:22	233:18	22:5;210:12;224:9,	16
156:16;169:15;188:5,	January (2)		10;227:13,15	Lastly (2)
7;189:21;193:18;	167:3;171:22	K	knowing (2)	53:4;91:14
210:9;220:8;231:13;	Japan's (1)		192:1;229:15	late (4)
233:12	99:1	Kansas (1)	knowledge (3)	88:11;172:7;176:6;
involvement (2)		62:19	76:16;110:4;124:18	186:7
196:1;216:12	Jefferson (3)	Karen (1)	known (6)	later (6)
	32:11,12,12			10:16;46:14;82:22;
involves (2)	Jeopardy (14)	32:14	64:14;104:6;	
66:14;140:14	23:18;80:4,7,7;	Kate (1)	129:12;134:4;138:21;	168:1;209:19;210:4
involving (1)	124:18,22;126:3,5,5;	127:1	205:16	Laughter (13)
183:19	128:7;143:12;144:11,	Katy (1)	KRUSE (7)	26:19;27:5;122:11;
Ireland (1)	22;145:4	126:11	93:17,17;121:15;	128:15,21;132:8;
168:18	Jillian (1)	keep (13)	122:6;207:4,20,21	135:6;138:1;140:3,18;
irrespective (1)	127:2	11:1;28:9,10;32:20;		143:9;145:18;156:12
87:18	Jim (1)	34:11;36:3;41:4;	L	launch (1)
issue (12)		97:14;99:15;122:15;		78:7
19:9;21:17;50:14;	126:12	150:18;162:14;221:22	label (2)	launched (5)
58:11,14;96:6;101:7;	Joan (3)		134:10,12	31:19;35:7;105:2;
	209:9,15,19	keeping (2)	· · · · · · · · · · · · · · · · · · ·	
153:9,10;157:11;	Joan's (1)	160:14;161:1	labeling (5)	120:9;167:3
179:1;189:2	210:10	keeps (2)	84:8,9;93:22;134:9,	launching (1)
issued (1)	job (8)	63:11;218:14	14	172:22
172:19	62:6;101:19;	Kempf (9)	laborious (1)	law (8)
issues (18)	102:21;143:11;	62:11,14,15,15;	151:9	102:4;109:16,21;
10:6;15:20;20:5;	146:18,19;181:16;	73:10;74:13;75:9;	lack (3)	110:2,19;112:22;
39:10;46:13;62:7;	209:3	76:13:85:20	34:1;64:21;135:2	150:6,8
82:19,22;95:21;103:2;		kept (1)	lacking (2)	laws (5)
108:10;131:10;133:9;	John (11)	226:6	64:6,20	104:2;110:3;114:2;
	13:15;15:14;23:14;			
169:6,12;185:22;	100:13;147:7,7,7,11,	KERKORIAN (4)	ladies (4)	170:21,21
188:15;199:16	14,17;237:4	119:4,7;198:5;	156:14,20;192:5;	lawyer (1)
issue-specific (1)	John's (1)	199:21	204:18	15:12
188:21	189:14	Kevin (2)	lady (1)	laypeople (1)
issuing (1)	Johnson (1)	73:2;126:12	202:12	209:22
55:2	126:12	key (13)	laid (2)	LCDR (7)
item (1)	join (2)	36:20;37:1,2;47:22;	164:1;225:21	102:17;114:21;
72:5	28:19:183:6	162:14;164:21;	landmark (1)	115:17;116:10,14;
items (1)	,	191:22;193:13;200:3,	141:6	117:10;118:7
71:16	joining (4)	11;213:11,13,16	language (9)	lead (9)
	12:16;156:18;			
iterative (4)	174:14;183:11	Keys (1)	15:18;23:7;57:17;	46:18;47:7;133:3;
97:20;118:16;	joint (1)	11:5	95:10,18;228:8,9,12,	137:10;138:4;140:10;
121:1;233:3	67:19	Khatri (13)	20	155:22;200:20;220:5
ITP (20)	joked (1)	29:14;102:1,14,16,	lap (1)	leader (1)
208:4;209:9,11,16;	97:10	17;114:21;115:17;	32:21	23:17
212:6,17,19;213:4,19,	Journal (2)	116:10,14;117:10;	large (5)	leaders (1)
22;214:1,3,8,11,18;		118:7,18;121:21	16:11;63:20;	213:17
215:5,18,21;216:5;	100:17;113:13	Khatri's (1)	104:16;111:11;164:7	leadership (1)
217:22	journey (8)	102:10	larger (2)	39:2
L11.LL	49:21;196:6;	kicked (1)	69:21,21	leading (5)
	208:12;209:8;213:22;	KICKCU (1)	07.21,21	icauling (3)

eber und Tou: Reys to	Encenve Engagement			
21:9;29:14;75:7;	126:21	169:19;173:6;181:8;	13:18;15:2,15;18:3,	208:10,17;209:22;
219:10;221:15	license (2)	184:10;186:13;191:5;	8;21:1;22:8;27:22;	208.10,17,209.22, 211:8
	83:11;188:17	200:12;202:16;209:7;	29:9;30:4;44:10,15,	
Leah (1)		· · · · · · · · · · · · · · · · · · ·		MALE (6)
95:5	licensed (1)	234:20;235:8	18;66:12,13,22;71:21;	58:2;132:6,21;
leaned (2)	124:22	live (12)	73:3,4,13;84:9;94:6;	133:17;137:12;143:7
119:6,7	Lieutenant (6)	32:6;33:8,11,13;	95:8,16;97:21;103:9;	Malena (1)
learn (10)	29:14;102:1,10,14;	149:1;159:15;161:7;	106:6;107:2;112:16;	233:17
11:11;20:21;25:11;	118:18;121:21	187:11;190:12;211:3;	145:19;147:1;151:18;	Maloney (6)
29:11;30:13;100:20;	life (11)	221:2,13	152:1,8;153:8,10;	183:4,12,13,22;
145:19;170:6;176:2;	48:21;64:5;91:1;	lively (1)	156:21;165:12;	184:6;195:18
209:2	159:14;162:2;173:14;	106:12	170:22;184:15,18;	manage (5)
learned (11)	214:10,20;228:13,14;	lives (4)	186:8;187:14;188:6;	36:12;127:13;
100:2;186:8;190:5;	229:3	41:18;48:20;	194:7,12;195:9,13,22;	129:12,14;151:22
194:5;195:22;212:14;	life-threatening (2)	213:22;220:6	196:4;197:10;206:21;	management (8)
213:13;215:3,8;	64:9;75:20	living (9)	225:1	12:13;147:8,9;
217:19;220:14	lightly (1)	51:7,10;76:2;214:1;	lots (4)	148:4,17;149:2;154:9;
learning (5)	114:11	219:11;220:4,22;	95:19;98:2;100:16;	175:21
177:18;179:11;	liked (1)	221:6;222:7	107:18	manager (1)
180:1;223:11;233:14	118:20	locate (1)	loud (1)	76:18
least (8)	likely (1)	14:8	170:18	managing (2)
20:14;21:7;69:10;	46:11	located (1)	love (1)	51:8;199:19
				,
144:16;184:15;201:5,	likes (1)	63:5	140:15	mandated (1)
13;235:8	44:14	logs (1)	loved (1)	33:15
leave (6)	limited (2)	215:15	41:18	manifestations (1)
98:10;101:20;	86:2;173:13	LOI (4)	lovely (1)	86:14
190:15,21;226:19;	limits (1)	227:6;229:16;	184:14	manner (1)
229:19	103:3	231:1;232:13	low (1)	112:21
leaving (1)	line (3)	long (9)	44:8	mantra (1)
75:18	12:5;118:20;216:17	14:3;43:16;48:19;	Lucas (3)	229:19
led (8)	liner (1)	120:22;150:13;194:3;	62:11,14,15	manually (1)
12:11,14;67:3;72:7;	23:12	203:18,20;205:15	luck (1)	39:11
162:16,16;189:21,22	lines (1)	longer (1)	78:19	manufacture (1)
Left (3)	90:21	228:3	lunch (10)	99:17
78:11;79:11;156:6	linking (1)	longitudinal (1)	78:22;79:16,17,17,	manufacturer (2)
legal (2)	167:6	215:16	18;80:3;116:16;	16:16;99:19
113:6;114:4	list (4)	long-term (1)	119:3;124:13;125:4	manufacturers (3)
legalistic (1)	36:7;149:9;192:17;	93:21	LUO (2)	54:19;129:11;
107:2	212:20	look (28)	74:13,14	206:11
legislation (1)	listed (3)	29:1;35:11;48:10;	lupus (1)	manufacturing (1)
141:6	177:6,10;220:14	68:12,18,19;69:4;	41:14	141:9
lenient (1)	listen (4)	71:14,20;72:3,10;		many (57)
131:18	32:2;112:15;	75:21;97:15;113:10,	Μ	12:8,11;13:8;16:14;
less (8)	184:19;218:17	17,21;127:16;146:7;		18:14,15;20:20,21,21;
63:9;74:18;76:2;	listened (2)	147:1;149:21;177:12;	ma'am (2)	23:21;24:6;31:7;
113:11;133:11;151:8;	170:10;224:16	178:3,14;192:6;196:8;	200:16;204:1	38:12;39:2,16;41:15,
183:9;205:17	listening (16)	219:3;222:18;237:10	mailbox (1)	16,20;44:15,18;56:3;
lessons (2)	112:6;163:2;173:1,	looking (18)	115:1	60:22;61:22;62:5,6;
168:19;215:2	6,20;174:8,14;197:12;	16:1;36:5,13;53:15;	main (3)	68:18;79:19;86:19;
letter (5)	198:6,18,19;199:1;	56:4;68:20;74:19;	40:21;154:19;	91:4;96:18;103:13;
	200:2,4,11;211:22			
79:2;164:22;165:1;		172:3,12;176:4;	209:11	106:1,18;120:14;
201:3,10	literally (2)	186:17;202:22;	mainly (2)	139:18;142:19;
letters (1)	117:1;118:15	211:11;212:14;223:4;	58:22;59:8	144:19;148:5;149:11,
107:18	literature (1)	228:5;229:1,3	major (9)	18;150:19;154:2,2;
level (11)	113:11	looks (4)	15:20;65:4;157:10;	161:13;179:7;184:16;
17:20;19:8;20:18;	little (35)	16:5;113:16;	219:16;220:22;	186:19;187:13;190:1,
21:5;22:7,17;51:17;	10:16;11:7,14;14:6;	152:17;177:14	221:13,18,20;226:2	2,14;191:1,7;208:14;
120:18;188:3,13;	23:12;24:22;27:13;	loop (1)	majority (2)	209:15;228:15;233:8
235:19	46:9,16,20;64:14;	218:15	75:14;189:22	March (4)
lever (1)	73:6;79:12;81:12;	loosely (1)	makes (2)	231:3,4,6;232:14
17:7	82:13,22;84:11;88:7;	60:2	114:3;159:8	Marie (1)
leverage (1)	100:10;144:12;	loser (1)	making (9)	126:20
176:2	145:16;158:14;	169:1	14:15;86:15;	marked (1)
	167:17;168:13;	lot (53)		206:2
Leyla (1)	107.17,100.15;	101 (33)	103:10;111:16;167:8;	200.2

CDER and You: Keys to	Effective Engagement	1	1	April 5, 2018
markers (1)	67:4;85:14,16;86:16;	10:18;11:6;13:5;	59:22;156:16;171:17;	37:12
99:10	87:13;108:20;109:8;	19:17,18;20:2;22:2,5;	200:17;202:15;204:3	mics (1)
market (5)	225:9	26:8;31:7,11,17,19,	members (13)	55:22
				middle (2)
16:8;84:13;136:1;	meaningfully (1) 160:7	22;32:3;35:21;37:2,9;	54:16;67:11;74:4;	
150:12;199:20		39:20;40:12,12,18,19;	103:14;108:11;131:9;	27:8;28:1
marketed (1)	means (12)	41:3;43:6,10,22;44:1,	172:3;175:8;180:13,	might (36)
82:6	41:8;45:1;49:14;	14;45:1,7;60:12;	16,19;200:21;203:13	13:22;14:2;22:14,
marketing (3)	63:9,20;86:1,20,22;	67:20;68:9;72:16,21;	membership (2)	14;43:4,5;44:13;
16:5;83:20;130:6	95:11;118:21;148:18;	79:2,5;95:12;104:22;	171:14;172:10	46:14;59:5;61:7;
markets (1)	150:4	105:15,18;106:5;	memorable (1)	71:11;90:18;96:3;
219:16	meant (4)	115:22;116:2,5,15;	184:4	97:2;120:22;144:8;
married (1)	24:9;38:10;202:11;	117:12;119:12,20;	memorandum (1)	147:2;151:15;154:8;
184:2	227:17	120:19,21;121:16;	173:4	155:15;169:15;
Mary (1)	measure (5)	122:18,21;123:6,17;	memorized (1)	174:13;186:22;187:1,
233:18	13:1;42:3;83:2;	150:1;157:16;162:9,	84:10	19;188:8,9,11,14,22;
Maryland (3)	87:15;226:12	11,13;163:11,16,22;	men (1)	191:22;192:10;199:5;
44:20;201:1;202:1	measurements (2)	164:13,17;165:10;	127:14	200:2,10;217:10
match (1)	92:14;109:9	166:4;167:2;171:11;	mention (6)	mile (2)
143:11	measures (3)	172:3,7;180:12;	24:9;104:21;	24:17,18
math (2)	85:3;86:22;109:12	181:22;189:1;191:3;	110:11;116:19;	military (1)
143:14;231:4	measuring (1)	197:14;200:18,21,22;	166:21;167:14	148:1
Matt (1)	226:14	201:7;202:1;204:5,6,	mentioned (33)	Miller (7)
127:1	mechanism (2)	11;205:7;210:10;	14:11;31:3;36:8;	174:22;175:5,6;
matter (5)	176:14;179:4	212:5,9,11,13;213:1,9,	47:6;51:6;59:7;60:8,	183:3;192:16;198:9;
54:20;57:21;90:21;	media (4)	11,14,17,20;216:9,9,	12;73:7;86:18;	204:7
162:1;221:11	28:15;30:20;108:3;	15;217:9,20;223:18,	108:22;111:5;114:2;	million (2)
matters (4)	219:18	19,20;224:1,4,6;	115:11,11,12,21;	220:22;221:2
34:21;47:10;	medians (1)	225:2,10,19;226:9;	117:18;119:4,8;121:5;	millions (1)
108:17;218:7	72:4	227:3,5,7,9;228:7,22;	138:12;158:20;	16:8
may (53)	medical (48)	229:11,15;230:17,21;	161:11;162:14;165:7;	mind (6)
15:11;21:16;22:8;	47:16,21;48:1,10,	232:9,19;233:21;	166:22;169:2;181:2;	21:19;87:8;97:14;
24:10;35:16;41:11;	11;49:20;51:2,12;	237:14	194:14;215:10;217:8;	160:14;161:1;162:14
42:7;44:18;48:22;	53:22;54:5,5,9,18;	meetings (95)	218:6	mindful (3)
50:17,20;52:17;54:19;	55:14,18;77:17;80:14;	19:19;31:8;34:12,	mentors (3)	190:14,17;202:9
61:9,9;64:13,18,20;	81:6;95:9;99:2;	15,20;35:16;36:13,15;	225:1,8;227:1	minds (2)
68:6;76:1,2;79:21,21;	104:15;109:11;	38:15;39:3;44:8,11,	message (2)	21:7;44:4
101:5,7;103:1;112:14;	113:10,13;139:1;	16;45:9,10;46:11;	184:17;226:19	mind-set (1)
113:1,7,9,9,21;	141:9;156:3;162:21;	61:11,17;66:22;67:1,	met (2)	119:18
118:22;119:21;	166:17;169:5,14,16;	4;68:1,4;70:18;74:4,8;	109:21;110:22	mine (1)
123:12,12;135:1;	173:7;174:5;179:22;	78:9;103:11,20;105:3,	method (2)	149:5
152:4;153:6,9,10,11,	180:20;187:3;196:20;	5,13,14;106:10,16;	53:1;144:17	minimize (1)
20;163:12;165:8,10;	203:10;209:17;210:7;	112:18;115:13;	methodological (1)	85:4
186:19;194:11;195:8,	214:1,2;215:4;216:21;	116:20;119:19;120:9,	194:19	minor (1)
9;197:11;198:15;	217:6;219:2;221:4	11;121:6;122:19,22;	methodologies (1)	178:8
218:19	medication (1)	123:2,2,4,9,11,16;	216:13	minute (1)
maybe (19)	222:2	131:13,16,17;143:2;	methods (19)	120:18
40:10;53:13;56:11;	medicine (1)	147:1;159:12;161:4,	51:14,15,15,18,19,	minutes (10)
63:1;114:3;116:21;	88:19	12,19,20;162:6,8,16;	20;52:10,12;53:4,18;	30:1;33:10;80:3,8;
130:22;158:13;	Medicines (5)	163:6,6,10,20;165:5,	55:16;56:22;57:1;	106:2,3;121:20;
163:15,16;167:21;	77:9;98:22;100:5;	15,19,20;166:7,10;	58:1,22;59:9;85:2;	124:15;151:11;197:19
175:2,3;178:8;186:5;	129:13;171:4	167:1;169:9;180:14;	88:4;92:12	misinformation (2)
198:1;206:9;218:11;	MedWatch (3)	188:4,6,20,21,22;	mic (2)	18:14;100:21
230:20	140:1,4,6	189:11,14,16,20;	37:13;230:4	missed (1)
mean (10)	meet (28)	190:4;191:16;201:14,	mic] (6)	168:22
31:13;39:19;60:9;	20:3;24:6;31:10,16;	18;204:8;220:1,17;	58:3;132:7;138:13;	missing (1)
114:9,10;121:18;	32:4;34:12;43:20;	223:16,22;229:17	143:8;199:22;225:13	215:5
147:4;172:9;225:15;	46:4,4;72:17;73:21;	Melton (15)	Michelle (1)	mission (6)
228:10	74:1;78:17;99:17;	32:5,17,18;37:22;	74:14	21:18;103:4,5,8;
meaning (3)	111:4;121:7;170:3,13,	39:22;40:14;45:11,16;	Michigan! (1)	104:4;210:11
44:8;48:17;52:1	19;171:7;186:22;	104:21;204:20,21;	135:22	misunderstanding (1)
meaningful (14)	187:1,2;188:12;	205:13,22;206:9,15	microphone (1)	15:15
13:1;42:4;48:6;	189:13,17;203:18,20	MEMBER (9)	197:22	mitigating (1)
51:16;55:17;64:17;	meeting (127)	37:16;57:5;58:2;	microphones (1)	136:10
		1	1	

CDER and Tou. Reys to				
mitigation (3)	154:16	111:14;155:11;	13;21:9;29:18,21;	newly (1)
129:19,21;228:4		178:15;215:8	32:4,4;33:9;35:18;	168:17
	morning (17)			
mixed (2)	10:4;32:19;47:5;	mutual (1)	37:1;40:17,20;41:1,9,	news (3)
51:15;53:4	62:19;77:2;81:5,10;	22:17	10;45:20;54:19;	221:17;235:10;
mixed-methods (1)	88:2;90:14;94:10;	myself (6)	65:21;70:13;71:11;	236:19
53:6	102:21;104:20;212:9;	40:8;175:9;195:21;	82:4;87:1;96:9;97:4;	next (26)
mode (1)	221:9;234:10;235:11,	206:22;214:4;226:18	100:18;104:8;111:8;	22:19;26:20;29:6;
163:2	14		117:7;118:11,11;	69:20;72:2;77:15;
model (3)	most (34)	Ν	122:3;124:8;126:7,8;	80:2;99:16;105:4,12;
163:21;171:2,9	20:18;21:4;27:8;		127:4;129:6;147:15;	110:16;119:5;132:17;
molecular (6)	28:4;32:13;46:10,11;	Nadia (1)	149:4;152:22;155:8;	156:7;174:22;193:20;
68:13,21;87:5;	52:8,21;56:19;59:4;	126:19	160:18;165:9;166:2,	194:17;195:12;197:5;
130:17,19;138:10	69:5;94:7;100:14;	naloxone (1)	17;170:15,18;177:15;	200:16;206:2,16;
moment (1)	105:6,13;107:10,20;	177:8	184:8;199:5,11;	213:1;218:15;229:8;
190:12				235:11
	108:1;109:12;123:11;	Namaste (1)	200:20,22;214:3,19,	
money (2)	128:7;133:10;149:5,5;	47:1	20;215:1,6,14;217:10,	nice (4)
148:21;165:12	150:10;162:1;204:11;	name (12)	11;219:2;220:20;	36:3;41:5;156:8;
monitored (1)	211:6;214:8,16;218:7,	25:3;36:21,21;	222:13,14,14;223:17,	201:6
118:1	11;229:10	37:19;47:5;74:13;	20,22;224:3,10,13,17,	nicely (1)
monitors (1)	mostly (1)	81:5;92:21;133:12;	22;225:20;226:7;	78:21
130:6	148:20	141:18;156:1;168:16	227:13;232:15,18	NIH (2)
Monkeys (1)	Mount (1)	Namibia (1)	needed (6)	18:10;67:19
147:20	159:2	87:9	16:7;37:3;177:22;	NIH's (1)
monthly (3)	move (8)	national (8)	210:12;213:4;225:18	171:9
70:18:229:10,17	13:7;33:12;37:10;	66:21;68:7;77:19;	needle (1)	NIZAR (7)
months (13)	88:18;170:14;174:16;	106:10,10;173:4;	223:3	92:19,21;115:8;
120:12,21;159:1;	205:14;223:3	210:15;220:2	needs (20)	116:8,12,18;118:5
175:22;184:3;201:14;	moved (1)		33:20;50:2;51:1,12;	Noah (14)
		natural (13)		
205:17,18;206:1;	13:9	64:3;67:21;87:21;	54:2;63:1;67:6;80:17;	24:7;25:1,3;30:9,9,
229:8;230:20;231:10,	movement (2)	88:7;89:2,19;90:2;	81:11;91:20;110:16;	12;31:1;126:8,11;
10	13:10,17	92:13;93:7,14;109:10;	127:5;160:6;171:12;	233:17;234:2,4,7;
monumental (1)	moving (8)	210:16,19	192:20;196:16,19;	237:5
216:2	17:22;34:14;84:13;	nature (3)	214:17,18;218:5	Noah's (2)
216:2 mood (4)	17:22;34:14;84:13; 160:9;195:19;214:15;		214:17,18;218:5 Neena (2)	Noah's (2) 24:15;32:20
216:2	17:22;34:14;84:13;	nature (3) 44:16;149:14; 153:14	214:17,18;218:5	Noah's (2)
216:2 mood (4)	17:22;34:14;84:13; 160:9;195:19;214:15;	nature (3) 44:16;149:14;	214:17,18;218:5 Neena (2)	Noah's (2) 24:15;32:20 noble (1) 116:3
216:2 mood (4) 219:11;220:4;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1	nature (3) 44:16;149:14; 153:14 navigate (3)	214:17,18;218:5 Neena (2) 92:21;126:19	Noah's (2) 24:15;32:20 noble (1) 116:3
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85)	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11,	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15;	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13	Noah's (2) 24:15;32:20 noble (1)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2)	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3)	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65)	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20;	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1) 203:21
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13,	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1) 203:21 nomination (1)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1) 203:21 nomination (1) 172:9
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4,	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1) 203:21 nomination (1) 172:9 Nominations (4)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8,	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18
216:2 mod (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1)
216:2 mod (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8,	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nominated (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20;	$\begin{array}{c} 17:22;34:14;84:13;\\ 160:9;195:19;214:15;\\ 227:21;228:1\\ \hline {\bf much (51)}\\ 11:15;13:15;16:11,\\ 16;22:3,16;24:13;\\ 30:6;40:4;57:5;58:14;\\ 59:11;61:2;84:22;\\ 88:15;93:5;112:15,15;\\ 114:19;115:8;117:11;\\ 118:5;125:3;137:11;\\ 143:13,15,19;147:19;\\ 154:22;155:13;\\ 158:19;164:8;178:21;\\ 183:13;185:1;190:4,\\ 10,11;192:21;194:4;\\ 195:22;197:1;200:20;\\ 201:22;204:14;\\ 208:11,21;210:9;\\ 220:9;234:8;237:3\\ \end{array}$	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11)	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1,	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11) 23:3,4,4;80:20;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18; 132:3,5,21,22;133:1; 138:10;141:17;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11)	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9;	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18; 132:3,5,21,22;133:1;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1,	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11) 23:3,4,4;80:20;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10;	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18; 132:3,5,21,22;133:1; 138:10;141:17;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19
216:2 mod (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1, 18;176:2;178:21; 180:1;181:19;187:1;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11) 23:3,4,4;80:20; 84:18;87:5;104:18; 121:12;139:20;	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10; 163:10;175:6;178:6, 18;186:19;200:5,9;	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18; 132:3,5,21,22;133:1; 138:10;141:17; 142:10;156:2;168:7; 182:14,19;188:13;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19 non-professional (2) 57:8;60:5
216:2 mod (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1, 18;176:2;178:21; 180:1;181:19;187:1; 190:1;191:5,10,19;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11) 23:3,4,4;80:20; 84:18;87:5;104:18; 121:12;139:20; 142:21;215:10	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10; 163:10;175:6;178:6, 18;186:19;200:5,9; 216:10	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18; 132:3,5,21,22;133:1; 138:10;141:17; 142:10;156:2;168:7; 182:14,19;188:13; 192:9;196:13,13;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19 non-professional (2) 57:8;60:5 non-public (1)
216:2 mod (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1, 18;176:2;178:21; 180:1;181:19;187:1; 190:1;191:5,10,19; 192:21;193:2;194:9;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 118:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11) 23:3,4,4;80:20; 84:18;87:5;104:18; 121:12;139:20; 142:21;215:10 muscular (2)	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10; 163:10;175:6;178:6, 18;186:19;200:5,9; 216:10 necessary (9)	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18; 132:3,5,21,22;133:1; 138:10;141:17; 142:10;156:2;168:7; 182:14,19;188:13; 192:9;196:13,13; 197:10;205:15;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19 non-professional (2) 57:8;60:5 non-public (1) 155:1
216:2 mod (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1, 18;176:2;178:21; 180:1;181:19;187:1; 190:1;191:5,10,19; 192:21;193:2;194:9; 195:20,20,22;196:9;	$\begin{array}{r} 17:22;34:14;84:13;\\ 160:9;195:19;214:15;\\ 227:21;228:1\\ \much (51)\\ 11:15;13:15;16:11,\\ 16;22:3,16;24:13;\\ 30:6;40:4;57:5;58:14;\\ 59:11;61:2;84:22;\\ 88:15;93:5;112:15,15;\\ 114:19;115:8;117:11;\\ 118:5;125:3;137:11;\\ 143:13,15,19;147:19;\\ 154:22;155:13;\\ 158:19;164:8;178:21;\\ 183:13;185:1;190:4,\\ 10,11;192:21;194:4;\\ 195:22;197:1;200:20;\\ 201:22;204:14;\\ 208:11,21;210:9;\\ 220:9;234:8;237:3\\ \multiple (11)\\ 23:3,4,4;80:20;\\ 84:18;87:5;104:18;\\ 121:12;139:20;\\ 142:21;215:10\\ \muscular (2)\\ 107:12,17\\ \end{array}$	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10; 163:10;175:6;178:6, 18;186:19;200:5,9; 216:10 necessary (9) 91:15;130:8;134:7;	214:17,18;218:5 Neena (2) 92:21;126:19 neither (1) 209:13 neurologic (2) 39:8;41:15 neutral (3) 205:9;236:14,22 new (65) 12:14;18:2;19:20; 31:6;46:19;47:9; 49:13;56:4,7;62:13, 15;63:5;65:20;66:17; 68:13,13,18,21;73:12; 75:1;77:3;80:16;81:8, 18;82:4,6,15;83:10; 87:5;90:5;91:16;92:1; 94:4,5;98:21;100:17; 124:2;130:17,18; 132:3,5,21,22;133:1; 138:10;141:17; 142:10;156:2;168:7; 182:14,19;188:13; 192:9;196:13,13; 197:10;205:15; 212:18;213:4;214:14;	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19 non-professional (2) 57:8;60:5 non-public (1) 155:1 non-scientific (1)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1, 18;176:2;178:21; 180:1;181:19;187:1; 190:1;191:5,10,19; 192:21;193:2;194:9; 195:20,20,22;196:9; 200:11;208:11,21;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 18:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11) 23:3,4,4;80:20; 84:18;87:5;104:18; 121:12;139:20; 142:21;215:10 muscular (2) 107:12,17 music (2)	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10; 163:10;175:6;178:6, 18;186:19;200:5,9; 216:10 necessary (9) 91:15;130:8;134:7; 165:11;166:3;182:6;	$\begin{array}{c} 214:17,18;218:5\\ \hline \textbf{Neena (2)}\\ 92:21;126:19\\ \textbf{neither (1)}\\ 209:13\\ \hline \textbf{neurologic (2)}\\ 39:8;41:15\\ \hline \textbf{neutral (3)}\\ 205:9;236:14,22\\ \hline \textbf{new (65)}\\ 12:14;18:2;19:20;\\ 31:6;46:19;47:9;\\ 49:13;56:4,7;62:13,\\ 15;63:5;65:20;66:17;\\ 68:13,13,18,21;73:12;\\ 75:1;77:3;80:16;81:8,\\ 18;82:4,6,15;83:10;\\ 87:5;90:5;91:16;92:1;\\ 94:4,5;98:21;100:17;\\ 124:2;130:17,18;\\ 132:3,5,21,22;133:1;\\ 138:10;141:17;\\ 142:10;156:2;168:7;\\ 182:14,19;188:13;\\ 192:9;196:13,13;\\ 197:10;205:15;\\ 212:18;213:4;214:14;\\ 216:1,5;222:17,18;\\ \end{array}$	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19 non-professional (2) 57:8;60:5 non-public (1) 155:1 non-scientific (1) 57:13
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1, 18;176:2;178:21; 180:1;181:19;187:1; 190:1;191:5,10,19; 192:21;193:2;194:9; 195:20,20,22;196:9; 200:11;208:11,21; 211:6;213:6;214:18;	$\begin{array}{r} 17:22;34:14;84:13;\\ 160:9;195:19;214:15;\\ 227:21;228:1\\ \hline much (51)\\ 11:15;13:15;16:11,\\ 16;22:3,16;24:13;\\ 30:6;40:4;57:5;58:14;\\ 59:11;61:2;84:22;\\ 88:15;93:5;112:15,15;\\ 114:19;115:8;117:11;\\ 118:5;125:3;137:11;\\ 143:13,15,19;147:19;\\ 154:22;155:13;\\ 158:19;164:8;178:21;\\ 183:13;185:1;190:4,\\ 10,11;192:21;194:4;\\ 195:22;197:1;200:20;\\ 201:22;204:14;\\ 208:11,21;210:9;\\ 220:9;234:8;237:3\\ \hline multiple (11)\\ 23:3,4,4;80:20;\\ 84:18;87:5;104:18;\\ 121:12;139:20;\\ 142:21;215:10\\ \hline muscular (2)\\ 107:12,17\\ \hline music (2)\\ 144:22;147:19\\ \end{array}$	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10; 163:10;175:6;178:6, 18;186:19;200:5,9; 216:10 necessary (9) 91:15;130:8;134:7; 165:11;166:3;182:6; 204:8;205:6;233:20	$\begin{array}{c} 214:17,18;218:5\\ \textbf{Neena (2)}\\ 92:21;126:19\\ \textbf{neither (1)}\\ 209:13\\ \textbf{neurologic (2)}\\ 39:8;41:15\\ \textbf{neutral (3)}\\ 205:9;236:14,22\\ \textbf{new (65)}\\ 12:14;18:2;19:20;\\ 31:6;46:19;47:9;\\ 49:13;56:4,7;62:13,\\ 15;63:5;65:20;66:17;\\ 68:13,13,18,21;73:12;\\ 75:1;77:3;80:16;81:8,\\ 18;82:4,6,15;83:10;\\ 87:5;90:5;91:16;92:1;\\ 94:4,5;98:21;100:17;\\ 124:2;130:17,18;\\ 132:3,5,21,22;133:1;\\ 138:10;141:17;\\ 142:10;156:2;168:7;\\ 182:14,19;188:13;\\ 192:9;196:13,13;\\ 197:10;205:15;\\ 212:18;213:4;214:14;\\ 216:1,5;222:17,18;\\ 223:1\end{array}$	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19 non-professional (2) 57:8;60:5 non-public (1) 155:1 non-scientific (1) 57:13 non-starter (1)
216:2 mood (4) 219:11;220:4; 221:2;222:7 more (85) 13:19,19;14:22; 15:2;16:14;17:20; 18:22;19:3,4,10; 21:19;22:3,6;24:22; 27:2,13,15;28:1,12; 29:11;30:4;39:22; 42:20;43:21;46:10; 49:16;53:10,14;58:18; 65:5;69:9;74:19;75:4; 78:11;80:21;84:11,22; 86:1;87:7,22;88:18; 96:1,1;99:17;100:13; 101:19;112:17;126:8, 22;136:21;142:20; 153:2;164:9;165:20; 166:15;167:11; 169:14;171:12;172:1, 18;176:2;178:21; 180:1;181:19;187:1; 190:1;191:5,10,19; 192:21;193:2;194:9; 195:20,20,22;196:9; 200:11;208:11,21;	17:22;34:14;84:13; 160:9;195:19;214:15; 227:21;228:1 much (51) 11:15;13:15;16:11, 16;22:3,16;24:13; 30:6;40:4;57:5;58:14; 59:11;61:2;84:22; 88:15;93:5;112:15,15; 114:19;115:8;117:11; 18:5;125:3;137:11; 143:13,15,19;147:19; 154:22;155:13; 158:19;164:8;178:21; 183:13;185:1;190:4, 10,11;192:21;194:4; 195:22;197:1;200:20; 201:22;204:14; 208:11,21;210:9; 220:9;234:8;237:3 multiple (11) 23:3,4,4;80:20; 84:18;87:5;104:18; 121:12;139:20; 142:21;215:10 muscular (2) 107:12,17 music (2)	nature (3) 44:16;149:14; 153:14 navigate (3) 27:17;118:15; 235:13 navigating (2) 235:19;236:5 NCATS (1) 67:21 NDA (5) 73:12;83:10;96:20; 124:2;205:16 NDAs (1) 72:11 near (1) 129:6 neat (1) 106:8 necessarily (14) 41:8;62:19;66:9; 74:9;101:17;152:10; 163:10;175:6;178:6, 18;186:19;200:5,9; 216:10 necessary (9) 91:15;130:8;134:7; 165:11;166:3;182:6;	$\begin{array}{c} 214:17,18;218:5\\ \hline \textbf{Neena (2)}\\ 92:21;126:19\\ \textbf{neither (1)}\\ 209:13\\ \hline \textbf{neurologic (2)}\\ 39:8;41:15\\ \hline \textbf{neutral (3)}\\ 205:9;236:14,22\\ \hline \textbf{new (65)}\\ 12:14;18:2;19:20;\\ 31:6;46:19;47:9;\\ 49:13;56:4,7;62:13,\\ 15;63:5;65:20;66:17;\\ 68:13,13,18,21;73:12;\\ 75:1;77:3;80:16;81:8,\\ 18;82:4,6,15;83:10;\\ 87:5;90:5;91:16;92:1;\\ 94:4,5;98:21;100:17;\\ 124:2;130:17,18;\\ 132:3,5,21,22;133:1;\\ 138:10;141:17;\\ 142:10;156:2;168:7;\\ 182:14,19;188:13;\\ 192:9;196:13,13;\\ 197:10;205:15;\\ 212:18;213:4;214:14;\\ 216:1,5;222:17,18;\\ \end{array}$	Noah's (2) 24:15;32:20 noble (1) 116:3 nobody (2) 122:9;236:22 nobody's (1) 65:2 nominate (1) 203:21 nomination (1) 172:9 Nominations (4) 171:22;172:1,5,18 nonclinical (1) 82:20 none (2) 99:20;205:19 non-industry (4) 34:2,4,16,19 non-professional (2) 57:8;60:5 non-public (1) 155:1 non-scientific (1) 57:13

Min-U-Script®

CDER and You: Keys to Effective Engagement				April 3, 2018
232:17	230:22	127:12	161:11;163:7;210:3;	137:17;162:7;171:7;
NORD (6)	occurring (1)	Olympic (1)	211:22	173:5;200:17;209:15;
67:13;106:10;	217:4	98:9	Oooh (1)	210:16;217:12;
173:20;174:8;215:12;	occurs (2)	Olympics (2)	156:10	219:11;220:2
216:6	85:8;130:4	98:13,16	open (12)	organizational (2)
note (2)	ocean (1)	once (13)	15:4;45:1;55:21;	10:14;38:13
154:4;210:14	23:12	27:22;34:22;36:17;	56:21;150:21,22;	organizations (20)
notes (2)	OCOES (1)	37:4;54:5;85:6;90:9;	153:7;167:19;204:12;	54:17;77:22;98:20;
146:7;155:8	148:15	94:12;119:10;153:7;	216:17;235:18;237:7	106:19;107:9,20;
nothing's (1)	OCOM (1)	156:1,14;181:12	opened (5)	111:19;161:15;
42:22	233:15	Oncology (6)	151:20;162:4;	165:10,18;189:14;
notice (1)	ODAC (1)	38:17,18;121:18;	170:11;171:21;228:1	199:10;208:8,11,14;
232:14	209:21	176:9;209:20;212:12	Opening (4)	209:1,16;218:14;
notices (2)	off (12)	on-conference (1)	10:3;98:12,14,16	224:11;227:15
107:3,8	12:7;42:22;58:3;	165:11	operate (1)	organize (1)
novel (5)	126:11;132:7;138:13;	OND (1)	110:3	161:16
56:22;57:1;65:2;	143:8;146:9;161:2;	132:20	operational (1)	organized (1)
144:15;193:9	176:2;199:22;225:13	one (76)	128:22	73:19
November (10)	offer (1)	10:18,21;13:22;	Operations (1)	organizers (1)
121:16;168:18;	90:4	14:4;15:1,20;18:22;	35:6	165:11
213:17;226:1;227:6,	Office (48)	21:4;27:15;40:1,16;	opinion (3)	ORISE (3)
10;230:19;231:2,4;	12:17;25:4;35:4,5,	43:3;45:22;48:4;	108:2;113:8;153:13	25:4;30:10,11
232:13	6;38:17;46:19;47:9;	53:18;60:18;67:7;	opinions (3)	orphan (2)
nucleotide (1)	56:10;62:13;63:5,6;	79:10;81:1;84:20;	108:5,15;110:5	18:1;73:22
73:15	73:22;74:14;80:16;	87:9;91:8;97:12;	opioid (1)	others (7)
number (22)	81:8;121:17;132:21,	100:22;102:21;	177:8 opioids (1)	56:10;126:16; 145:13;189:12,12;
31:14;33:18;36:22;	22;133:1;147:10; 148:16,16;149:7;	107:10;108:12; 111:14,21;112:3;	177:8	207:1;210:18
63:11,21;69:18;98:19; 104:16;119:21;	150:2;151:10;152:18;	115:11;120:20;	opportunities (10)	otherwise (3)
144:14;154:18,20,20,	155:1,4;157:18;	122:19;126:14,15,22;	81:13;86:2;104:11,	145:13;154:10,13
20;185:5,8;186:16;	158:16,20;165:2,2;	131:17;139:18;140:6;	19;185:14;194:10;	ourselves (3)
205:15;206:4,11;	168:6;169:17;175:1,	142:19;143:4;144:16;	196:14,21;215:2;	38:20;99:15;167:18
212:16;217:19	16,17,18;181:16;	147:14;149:15;	222:18	out (70)
numbers (3)	183:6;185:15,20;	156:16;158:22;163:5,	opportunity (22)	15:6;16:8;19:1,5;
19:5;52:11;69:6	186:15;196:13;197:9;	9;169:14;175:10,11;	24:6;29:3,11;94:6;	22:4,7;23:5;26:13;
numerical (1)	212:11	184:13,22;185:7;	105:3,18;153:12;	27:21;28:14;29:3;
52:22	officer (2)	187:2;188:12;189:2;	157:16;158:3;159:12;	31:10,12,16;32:15;
numerous (1)	80:14;81:7	190:20;191:21;	160:21;161:21;171:3;	35:16;36:16;38:4;
146:21	officers (1)	193:15;197:4;199:8;	172:10;180:6;194:8;	41:1;42:12,13;46:4;
	173:7	201:6,14,20;206:7;	196:13;197:11;	48:14;59:7;62:18;
0	offices (6)	210:10;214:1;218:4;	210:20;218:22;219:5;	67:4;75:18;76:16;
	36:7,9;157:3;	224:19;225:22;	232:8	78:19;80:6;87:1;
Oak (5)	185:10,12;188:12	230:18;234:12,15;	opposed (2)	96:10;97:7;98:5;
44:20;78:20;	offshoots (1)	235:16;236:8	57:12;65:3	99:15;100:21;105:5;
102:19;117:12,16	157:5	ones (7)	opposite (1)	107:3;111:6;113:14;
objective (6)	often (30)	41:18;61:18;67:2;	147:14	120:11;140:5;143:14;
52:6;53:1,12;60:11;	15:22;42:6;60:18;	72:10;151:1;190:2;	option (3)	154:16,18;159:17;
89:15;178:14	64:3,20;92:3;97:6,9;	193:10	126:22;202:3;	160:11;161:14;162:9,
objectives (1)	101:11;102:7;106:1,2,	One-third (2)	209:14	22;164:1;165:18;
198:8	9;107:2,8,18;109:15, 17;113:17;119:21;	221:3;222:1	options (6) 51:11;52:21;53:11;	168:14;169:20;
observations (1) 84:16	120:14;123:13;124:5;	one-way (1) 200:12	115:19;162:2;163:18	194:10,17;195:4,5,14; 196:18;199:10;
observer (1)	120.14,125.15,124.5, 147:4;186:21;208:15;	ongoing (1)	order (6)	206:20;208:5;221:11;
91:11	218:13;220:10;230:7;	170:20	42:8;69:14;79:18;	223:14;225:8;226:17;
obtain (2)	231:14	online (8)	82:7;89:17;92:1	229:16;231:22;237:8
103:22;146:21	OHCA (4)	10:8;11:18;23:10;	ordinary (1)	outcome (10)
obvious (1)	35:19;68:2;191:13;	31:19;116:1;147:1;	15:17	46:18;47:7,11;
84:21	192:22	177:10;182:7	organic (1)	48:13;49:2,2,4;65:3;
obviously (8)	OHOP (2)	only (17)	225:19	86:22;109:11
58:6;63:2;72:15,20;	121:17;213:10	22:19;26:15;45:21;	organization (17)	outcomes (17)
128:6;157:10;165:20;	Okay! (1)	63:10;66:8,15;74:19;	36:22;68:8;106:11;	48:6;50:12;55:10;
171:14	135:19	81:1;96:19;113:15;	111:11;113:15;	64:17;72:4;83:2;
occurred (1)	old (1)	146:8;154:5;157:11;	115:10;121:16;	85:17;88:17;89:6;

·				_
91:12;99:11,12;215:1,	paid (2)	185:4;186:17,18,21;	52:14;53:16,21;54:2,	40:7;41:6,7;42:4,5,6,
17,22;223:4;229:4	112:9;122:9	187:4;188:16;189:1;	7,12,14,17,21;55:1,8,	9;47:20;48:6,12,18;
outliers (1)	Pain (1)	200:3	13,18;56:3,5;57:2,16,	50:14,16;51:21;52:4,
86:10	177:8	particularly (9)	19,20;58:11,17,21;	20;53:7,9;54:3,15,17;
outlined (1)	Pam (1)	11:8;42:9;82:21;	59:14,15,20:60:1,4,	56:13;57:9;58:9;59:5,
106:21	126:21	89:13;90:3;182:14;	20;67:6,22;72:18;	10;66:9;75:14;76:1;
outnumber (1)	panel (5)	193:8,10;223:12	74:18;78:7,9;81:14;	81:14;82:4;85:13,17;
119:21	155:19;156:9;	parties (2)	85:9;86:3;87:16,16;	92:7;93:2;96:19;
output (1)	157:21;204:16;205:6	218:15:231:17	88:1;90:14;91:1,3,11,	97:21;104:7;106:1,9,
227:3	panelists (3)	partly (1)	15,19;92:8,13;94:11,	12;107:9;108:4,8,9,
outreach (3)	156:15;158:9;	18:4	13;96:3;97:19;	11,14;109:13;111:20;
20:8;165:14;185:14	190:16	partner (3)	103:20;104:13,16,19;	112:9;123:4,6,15;
outside (9)	panels (2)	50:20;68:6;171:17	105:14,16,19;106:13,	124:6;129:14;131:8;
19:18;31:20;139:1;	146:21;229:5	partners (1)	19;107:9,11;108:7,7,	137:18;142:19;
149:7;181:8;193:14;	paper (4)	50:19	12,13,18;109:1,5,9;	160:19;161:5,21;
197:11;198:19;209:21	85:19;144:13;	parts (3)	110:14;111:19,22;	162:17;163:3,17;
outward (2)	152:15;224:20	33:6,14;35:10	110:14,111:19,22, 112:3,4;115:13,20;	165:16,18;166:1;
13:19;16:22	papers (1)	party (2)	123:3,21;136:20;	171:14,16;173:10,17;
	154:17	111:5;171:6	138:2;157:1,9;161:6,	
outweigh (2)		P-A-S (1)		176:15,21;177:11,17;
104:6;141:19	paradigm (2)	P-A-S (1) 68:2	15,22;162:7,17,17,18;	178:20;184:9,19;
over (35)	212:19;215:6		165:17;168:17;169:2,	185:2;186:7;188:5,6;
16:14;22:19;30:11;	parents (1)	PASE (24)	7,20,21;170:3,8;	189:6,7,10;190:6;
31:8;33:3,6;35:9;	171:16	13:16;19:1;23:8;	171:1,1,5,9;172:17,	192:18,21;193:2,10;
62:6;69:20;71:14;	parlance (1)	25:6;29:13;37:6,8;	20;173:2;175:19;	194:5;195:21;196:5;
75:15;88:9;104:1,12;	23:20	68:2;98:8;115:1;	176:5,8,11;177:1,3,12,	199:11;208:3,16,16;
111:14,21;119:6,7;	parsed (1)	116:4;118:1;121:20;	16;178:3,6,16;179:8,	209:17,18;211:6,7,20;
127:3,19,20;141:1;	100:13	138:3;155:22;157:15;	14,17;180:3,5,9,10,14;	212:18;213:19,22;
159:4;167:12;168:15;	part (38)	207:22;212:5,12;	181:7,9,13,19;182:8,	214:17;215:3;216:13,
186:4;193:16;198:2;	18:19;19:14;22:9;	213:10;223:13;224:5,	14,20,22;183:19;	20;217:2;218:6,9,18;
205:14;219:12,21,22;	33:2;35:20;42:17,19;	15;225:11	184:8;185:6,11,16,21;	222:20,22;223:5;
221:19;223:7;229:8	43:8,22;46:3;47:15;	P-A-S-E (1)	186:1,16,22;189:14,	226:2,13,15;228:5,11,
overall (3)	49:7;69:1;70:4;74:2;	137:21	17;190:7;191:8,12,13;	12;229:2;232:5,17
53:18;221:2;236:11	100:14;102:12;	PASE's (1)	192:3,6;193:8;194:20;	patient's (10)
oversight (1)	112:22;122:8;138:8;	35:3	195:7;196:16,19;	49:21;50:1,6,8;
175:21	148:2,2;160:12;	pass (1)	197:6;198:7,9;199:13;	52:18;109:2,3;160:19;
over-the-counter (2)	161:11;163:14;	76:1	200:19;202:17,20;	194:2;208:12
135:17,18	169:17;176:9,20;	passed (1)	203:3,4,7,9,13,19;	patients' (11)
overview (2)	180:9;186:10;197:2;	64:8	204:9;208:18;209:4,9;	48:1,4,5,9;49:8;
51:17;220:10	200:18;204:11;	passionate (1)	210:8,17,17;211:12,	51:1,10;53:19;105:7;
own (13)	220:21;230:6;231:6,	154:2	19;212:1,6;213:3,8,	114:16;160:5
20:12;21:7;42:7;	11;232:2	past (8)	12,15,20;214:5,11,13;	Pause (2)
54:4;56:15;107:15;	PARTICIPANT (6)	39:11;45:2;148:12;	215:7;216:3,12;217:5,	45:15;159:13
161:16;165:19;169:7;	132:6,21;133:17;	193:21;194:3;212:14;	9,11;218:5,16,22;	pay (1)
178:12;218:8;228:12;	137:12;143:7;176:16	225:2;228:3	219:3;224:11;227:15	168:8
229:13	participants (4)	Path (6)	patient-engagement (1)	PDSA (8)
	24:17;138:10;	78:10;87:11;141:7;	169:13	208:2,19;209:9;
Р	162:14;211:8	224:17;225:7;227:11	patientfocus@fdahhsgov (1)	210:5,15;211:10;
	participant's (1)	pathophysiology (1)	79:3	216:16;218:21
pack (1)	52:2	215:21	patient-focused (31)	PDSA's (5)
79:17	participate (5)	pathway (2)	49:14;59:2;67:1;	209:8;210:11;
package (3)	91:22;105:17;	94:4;224:22	78:12;79:5;105:4,9;	213:18;215:12;219:1
97:17;124:3;134:5	171:12;198:18;220:6	pathways (5)	112:18;137:3,5;	PDUFA (1)
packaging (1)	participated (8)	34:5;36:14;55:2;	159:11,22;160:3,15;	130:21
134:12	20:22;24:1;98:8,14,	94:19;176:15	161:2,16,19;169:8;	PECs (1)
packet (1)	15;102:11;106:4;	patient (237)	186:3;189:20;190:3;	191:8
10:11	190:1	12:21;13:2,10;15:9;	197:13;211:15;	pediatric (3)
packs (1)	participation (8)	17:5,5;25:19;33:15,	212:22;220:16;227:5,	67:11;75:13;76:6
119:20	88:6;91:14,15;	17,19;38:19;39:3;	8;228:22;229:14;	pediatrics (3)
PADARS (1)	123:19;143:1,3,5;	40:6,6,8,13,15,22;	230:21;232:9	70:2;75:15,21
139:21	171:1	46:21;47:13,15,17;	patient-reported (2)	peer-directed (1)
page (8)	particular (13)	48:20,20;49:15,17,19,	99:10;215:17	219:10
33:6;35:2,10;36:2;	19:9;108:13;	19;50:12,15,19,20,21,	patients (129)	penalized (1)
108:4;167:3,7;177:11	150:22;168:6;173:9;	21;51:5,12,13,16;	13:2;14:4,5;39:4;	128:8
100.1,107.0,7,177.11	100.22,100.0,175.9,	21,01.0,12,10,10,	10.2,111,0,00.7,	120.0

eben una 100. Rejs to	Encente Engagement	1		
penalties (1)	117:6;119:10;126:15;	207:5,9;209:4;219:7,	100:4	Poll (1)
148:21	127:5;155:3;179:22;	8;230:13,18;232:6	plate (1)	234:7
pending (1)	198:2;202:5;222:8;	physical (4)	193:20	polling (1)
131:11	223:22;224:3;235:16	44:14;58:10,15;	Platelet (3)	164:11
pens (1)	personal (4)	222:10	93:18;207:8;208:1	polls (1)
154:17	17:21;171:15;	physically (1)	platform (3)	235:18
people (92)	178:4;181:4	121:7	161:5;163:3;193:7	pool (1)
14:9;15:8,18,21;	personalized (2)	physician (2)	play (16)	175:7
18:3;19:2,6,12;20:2,4,	88:19;181:17	39:6;95:22	80:3;124:17;126:4,	population (16)
9,10,20;21:19,20;	personally (1)	physicians (3)	5;128:12;129:3,6,9;	64:11;66:15;75:22;
22:8,8,14;23:9,21;	117:20	77:5;96:2;214:4	130:1,3;139:7,9,16,	76:3;86:12;88:15;
24:8,9;28:1;31:3;	persons (2)	pick (5)	17;141:15,16	89:8,17;91:8;93:1,4;
38:4;39:17;41:6,19;	50:7;123:15	10:18;24:4;126:18;	played (1)	166:17;208:18;
43:11,15,17;44:17;	perspective (14)	192:15;234:19	30:2	215:18;218:5;219:3
45:3,5,21;61:8;63:9,	47:15;48:7,13;	picked (1)	playing (4)	populations (5)
19,21;64:3;66:15;	49:16;55:8;58:12;	77:14	94:1;104:14;	64:18;71:12;86:1;
79:16;82:14;101:10;	95:22;160:19;172:15;	picking (1)	131:22;144:22	87:20;89:7
103:10;111:12;116:7;	183:8;206:22;217:9;	111:21	pleasantly (1)	portals (1)
117:8,13;118:9;119:2,	229:6;233:2	picture (4)	172:2	15:4
22;120:1,4,14,22;	perspectively (1)	87:9;184:11,16;	please (17)	portfolio (1)
121:4,7;147:2;148:22;	85:4	211:2	11:1;37:12;55:3;	69:22
149:6;151:22;155:3;	perspectives (14)	piece (3)	62:22;77:10;114:22;	Portia (2)
165:9;179:11;185:2,9;	25:18;48:9;52:2;	144:13;152:15;	115:4;134:3;136:8;	98:7,18
186:11;187:12;	53:20;78:7;108:15;	160:17	139:8;152:8;154:10;	portion (2)
197:21;202:20;208:5,	109:3;136:20;160:6;	pillars (1)	155:15;183:21;198:4;	53:17;69:21
15;217:15;219:13;	164:9;172:12,14;	210:11	204:22;205:4	position (1)
220:22;221:2,3,6,7,12,	186:9;193:15	pilot (3)	pleased (1)	114:8
13;222:7;223:16;	pertaining (1) 47:10	173:5,19;174:3	31:5 Naggung (2)	positions (1)
224:4;225:1;226:4,7, 10;227:1;230:5,16	petition (8)	piloted (1) 175:20	pleasure (2) 13:11;102:13	226:18 positive (2)
people's (3)	106:21;150:7,16;	pipeline (1)	plethora (1)	48:16,18
44:4,12;45:6	152:6,8,17,19;153:10	177:20	211:20	positively (2)
per (2)	petitions (7)	pivotal (2)	pm (3)	85:9;190:20
180:22;204:9	106:18;149:10,12,	83:9;89:12	125:4;126:2;237:14	possibility (2)
percent (48)	14;150:10,11;152:3	place (9)	pockets (1)	93:9;222:6
26:14,16,17;27:9,	PFDD (3)	19:22;20:1;25:8;	219:15	possible (10)
10,11;28:1,3,5;65:6;	115:12;191:3;	37:18;38:15;80:2;	podcast (1)	15:7;22:17;82:5;
68:21;69:5,6,11;70:6;	200:18	120:10;137:11;226:14	31:2	87:12;88:3,15;93:16;
72:5,7,11;75:16;	Pharm (1)	placebo (1)	podium (3)	148:6;178:2;197:1
77:14;99:5;144:15;	78:11	84:16	80:13;102:13;207:5	possibly (2)
145:10,16,21;146:9,9;	pharmaceutical (9)	placebo-controlled (1)	poignant (1)	22:18;31:12
205:13;206:2,16;	12:13,15;15:10;	91:18	193:3	post (1)
208:9;234:12,15,17,	34:5;77:6;99:2;	placement (1)	point (39)	154:6
18;235:4,5,7,14,15,16;	103:21;122:22;210:8	73:7	15:1,3;20:21;21:5,	posted (3)
236:3,3,6,6,20,21,22	pharmacological (1)	placing (1)	21;33:1;34:11;38:6;	117:22;154:9,13
Perfect (1)	221:5	79:18	39:15;40:20;60:18;	poster (1)
159:19	PharmoRx (1)	plain (3)	82:19;83:10;95:6,14;	68:10
performance (1)	230:12	15:17;23:7;57:17	96:8,13;105:16;106:3,	postmarket (2)
133:14	phase (14)	plan (12)	17,22;112:10,13;	130:9,10
performed (4)	71:2;82:15;83:5,7,	38:16;80:2;111:3;	118:8,14;123:10,20;	postmarketing (2)
84:1;85:6;88:5,22	8;88:10;123:2;130:4,	195:3,13;200:18,20;	124:4,4,7;125:1;	82:11;83:14
performing (1) 87:21	12;140:12,13,20,21;	201:14,18;212:21;	127:5;128:9;198:14;	potential (10)
87:21 perhaps (6)	179:18 phases (1)	213:10;217:20 planned (3)	206:20;209:6;230:5, 10;232:10	18:20;52:6;53:1,12; 90:9;93:15;94:6;
11:16;100:12;	70:20	85:4;101:8;163:13	points (4)	108:16;129:13;166:18
102:9;105:6;207:12;	Philadelphia (1)	planner (1)	85:11;128:5,7;	potentially (1)
213:3	156:6	165:10	201:21	90:8
period (5)	phone (9)	planning (13)	policies (2)	pound (1)
110:9,13;120:5;	23:4;31:13;36:22;	35:1;90:1;101:9;	65:15;104:2	24:18
172:8,9	43:9,11;107:19;113:4;	104:1;119:12;162:13;	policy (3)	pounding (1)
person (18)	154:18,19	165:5;201:7,12,15;	114:8,9;155:21	159:7
29:5;30:19;37:21;	Phyllis (11)	202:6;213:14;217:9	polished (1)	practicality (1)
94:7;95:6;102:19;	40:2;41:5;94:9;	plans (1)	15:12	113:22
· · · ·				

(21) penalties - practicality

	1
practice (3)	
85:1,19;138:22 practices (3)	
57:18;104:1;209:2	pr
precedent (1) 86:21	
precludes (1)	
123:15	
pre-competitive (2) 54:10;56:11	pr
precursor (1)	
174:13 predictable (1)	pr
89:14	pr
predominantly (1) 109:21	pr
preeminent (1)	
98:20 preference (1)	pr
91:4	pr
preferences (4) 50:2,13;51:1,12	
preferred (1)	pr
178:15 pre-filled (1)	pr
36:16	hı
pre-IND (2) 116:12;123:6	pr
pre-INDs (1)	pr
123:1 preliminary (1)	
preliminary (1) 213:1	pr
prepare (1)	
232:16 prepared (2)	pr
207:15;217:16	pr
prerequisite (1) 83:19	pr
prescribe (1)	-
134:7 prescribed (1)	pr
84:7	
prescriber (1) 134:12	Pr
prescribing (1)	pr
134:4 Prescription (4)	pr
131:1,3;134:14;	
135:16 prescriptions (1)	pr
133:10	
presence (1) 176:21	pr
present (5)	pr
11:1;104:3;105:16; 112:10;131:10	pr
Presentation (22)	
13:14;27:13;28:6; 29:15;32:17;47:2;	pr
55:20;62:14;81:3;	pr
101:12;102:16; 114:15;118:18;	
147:17;158:18;	

168:11:175:5:183:12; 207:20:216:10:219:7: 237:2 esentations (12) 26:2;28:8,18;29:13; 30:4,7;66:21;68:3; 156:20;158:10; 167:17:174:20 resented (3) 111:15:186:12; 236:12 resenters (3) 11:20,21;26:2 resident (2) 92:22;207:10 ressure (1) 22:12 re-symptomatic (1) 88:10 retty (3) 98:17;151:11; 154:22 retzel (1) 234:3 reventing (1) 136:11 reventive (1) 187:8 revious (6) 31:7:60:13:87:4; 114:8,10:159:14 reviously (2) 64:22:85:10 rices (1) 99:11 rimarily (3) 64:2;75:21;222:20 rimary (3) 81:16;171:18; 198:21 rincipal (1) 169:16 rior (3) 12:16;13:5;36:11 riorities (2) 81:19;160:6 rioritization (1) 216:11 rioritize (3) 81:22;208:17; 214:17 riority (3) 67:8;69:8;70:1 riority-setting (1) 104:1 rivy (1) 181:5 rizes (1) 124:19 obably (9) 16:14;38:12;43:2; 63:10:103:1:108:1; 158:5;184:18;203:10

probe (1) 179:2 probing (1) 225:16 probiotics (1) 187:13 problem (1) 14:18problematic (2) 90:19:91:10 problems (3) 58:12;86:13;108:10 procedure (1) 145:5 procedures (1) 65:15 proceed (2) 16:3;60:11 process (74) 17:14;19:18;20:20; 29:12,19:33:16,21; 34:18;35:2;36:12; 37:9,20;38:10;39:21; 42:21;47:16;49:11; 54:9;55:15;61:5,10; 78:10;82:2,8,14;83:5, 15;92:9;94:14;95:20; 96:9,15,22;97:20; 99:9;106:8;109:3; 110:7:116:3.17; 118:11:121:1:122:4; 130:4:137:1:142:21: 144:18:150:14:158:3: 164:22;171:2;174:2,7, 7,11;176:13;178:2; 179:19;180:4;195:2; 200:11;201:4;202:18; 203:16;204:5;205:17; 210:10;212:17; 216:15:220:21; 223:11;231:8,18; 233:4 processed (2) 16:14,15 processes (5) 34:1;66:2;100:19; 141:8;170:7 processing (1) 190:22 produce (1) 99:19 product (36) 47:16,21;48:2,11; 49:20;51:3;53:22; 54:6,9,18;55:14,19; 71:18;74:11;109:4,7; 111:2;130:5;134:9,10; 139:1;162:21;169:14; 174:5;180:20;186:3, 17;187:3;188:12,17, 19;196:20;200:10; 203:11;206:5;211:1 productive (2)

121:10:220:5 Products (34) 38:18:48:10:54:5; 71:13;73:15,22;77:4; 80:15;81:8;104:5,16; 109:11;110:12; 121:18;130:7;134:19, 22;135:14;141:10; 166:13;169:5,16; 185:4;187:6,11,12,13, 22;188:1,2,7;189:6; 199:20:212:12 product's (1) 136:4 product-specific (1) 188:20 **Professional (16)** 25:5;29:17;35:14; 39:6;40:6,8,13,15,22; 41:6,7;103:16,21; 105:1;157:2;214:21 professionals (7) 34:16;73:19;134:6; 137:19;138:7;162:22; 210:6 Program (40) 35:5;61:21;62:3,10, 12,16;65:10;66:16; 67:8;68:9;70:4,11,12; 72:17:73:20:74:3.6; 76:17:77:16,16:95:10: 115:14:138:6:175:20: 176:5,10,11;177:2; 179:6;180:10;181:20; 193:8,11;198:7,10,11; 202:20;203:9,20; 216:7 Programs (14) 35:5;64:8;65:2,14; 69:4.8;71:10;72:9; 158:16,21;165:2; 166:14:175:1:203:1 progress (4) 13:8;40:16;46:1; 104:17 progression (2) 89:22;215:16 progressions (1) 88:17 promise (1) 39:18 promised (1) 202:9 promising (1) 142:10 promote (2) 46:7;103:5 promptly (3) 79:14;124:14;125:2 proof (1) 83:8 propelled (1) 226:21

April 3, 2018

proposed (3) 38:7:84:9:107:13 pros (1) 225:2 prospectively (2) 89:1:210:21 protect (3) 103:5:110:18.20 protocol (2) 71:17,21 prove (1) 100:17 provide (24) 12:3;24:8;46:9; 47:9;50:8;56:17; 80:16;88:1;89:4; 108:9;129:11;160:21; 161:4,20;176:16; 181:22;182:7;209:5; 210:21;211:19;213:3; 214:14:219:1,22 provider (1) 25:20 provides (7) 51:17;77:17;89:21; 134:6;176:14,21; 180:10 providing (7) 138:9;181:18; 209:17;213:6;214:11; 216:3:220:3 proving (1) 136:2 provisions (2) 49:13:186:11 Pruitt (1) 213:21 **PRV**(1) 67:8 psychiatric (1) 39:9 public (40) 13:20;16:17;28:21; 41:9;77:4;78:16; 103:6,11,15,19,22; 104:6;105:18,22; 107:4;131:8,9,16; 148:22;149:1;153:10, 12,13;154:5,9,21; 157:13;171:10; 189:11:198:20:204:4, 8.12:208:22:211:12. 14,18;212:15;214:21; 236:13 publicly (2) 154:6;206:4 published (4) 47:19;57:6,11; 113:10 Pujita (8) 156:8;158:11,14,17, 18;189:19;193:18; 196:2

02211 una 1040 11035 00	zaretta e zangegement			F
Pujita's (1)	quick (6)	rarely (2)	104:10;109:19;	recommend (2)
197:9	28:14;30:1;48:15;	21:16;89:11	110:18;111:9;112:19;	106:7;163:19
pull (4)	118:3;122:7,17	rate (2)	116:16,18;117:5;	recommendations (7)
140:5;185:9;	quickly (3)	77:21;236:11	119:14;120:3,20,21;	114:1,7,16,17;
229:13;232:18	82:5;119:12;199:7	rather (2)	121:3,11;122:4;	174:16;210:1;215:20
pulled (1)	quite (9)	90:18;111:14	131:15;132:1;144:5;	recommended (1)
183:4 pulling (1)	73:19;113:14; 151:17;184:14;188:2;	Rea (16) 121:19;155:20,20,	147:14;150:15; 156:19;157:12,14,21;	84:8 recommending (2)
60:4	192:16;196:14;	22;156:4,9;158:19,20;	160:9,12,15;161:4,9;	113:1;114:18
purports (1)	220:20;224:8	168:12;183:13,14,22;	162:9,15,17;163:2,3,	recommends (1)
84:6	quiz (1)	194:14;224:6;233:17;	20;164:13,15,18,18;	51:14
purpose (2)	24:21	234:5	165:3,6,17;166:2,3,7;	Record (1)
48:8;55:6	quote (1)	R-E-A (1)	167:18;168:6,8;	150:2
purposes (2)	40:22	156:1	170:16;173:8,22;	recorded (1)
12:2;119:13	quotes (1)	Reach (4)	176:6,10,14,19;	12:1
push (2)	53:17	22:17;77:4;196:18;	177:13,13,22;179:2,	recordings (3)
42:14;43:20	р	199:10	13,20,22;180:8;	106:6,6;164:14
pushed (1)	R	reached (1)	181:14,16;184:19,21;	records (1)
42:12 pushes (1)	maga (1)	229:16 reaches (1)	192:19;193:3;194:5,7, 18;196:15;197:7;	150:18 recruit (3)
42:13	race (1) 24:17	82:19	198:13,21;199:2;	64:12;177:7,14
42:15 pushing (1)	radically (1)	reactive (1)	200:4;201:14;202:13;	recruiting (2)
43:18	192:7	170:14	207:13,16;208:7;	177:3,9
put (17)	raging (1)	read (9)	209:3,12;210:5,5;	recruitment (5)
18:22;19:3,4;38:20;	21:17	113:12;127:22;	216:8,22;217:1,3,4,5,	109:6;176:3;178:1;
57:15;61:7;72:16;	raise (2)	128:13;148:9;149:18;	22;218:2,13,15,16,21;	198:10;210:22
74:11;95:13;107:3,13;	108:20;166:19	152:15;153:16;154:1;	220:19;224:16,21;	recruits (2)
159:16;194:15;	raised (5)	198:2	225:16;227:4;228:7,	182:15,19
195:13;205:10;	43:8;191:4,9,14,17	reading (8)	18;231:9,18;232:4,18	red (1)
226:17;230:20	raises (1)	27:3;126:10;	reason (5)	202:12
putting (3)	218:3	129:10;140:16;	12:2;23:22;40:16;	refer (2)
19:5;23:8;194:17	raising (1)	148:22;149:1;154:21; 205:2	65:10;110:17	164:17;187:12
puzzle (1) 156:2	222:5 Raj (1)	ready (10)	reasons (2) 120:7,13	referenced (2) 31:9;61:21
150.2	233:16	36:17;125:1;126:4,	recall (1)	references (1)
Q	ran (1)	5,10;131:20;133:5,5;	200:6	100:16
×	32:21	181:17;197:22	receive (3)	referring (1)
Q&A (1)	randomly (2)	real (6)	107:18;118:4;	75:9
33:12	129:1,5	40:11;48:15;113:7;	179:20	refers (1)
Qdoba (1)	range (4)	145:3;182:2,13	received (8)	138:22
24:18	23:4;43:3,5;188:2	realistic (3)	121:20;172:1;	reflect (1)
qualified (1)	ranging (1)	89:17;108:20;	189:6;210:15;212:9;	109:11
84:1	83:7	120:15	231:2;232:12,14	reflects (1)
qualitative (8)	ranked (1) 24:15	reality (1) 38:12	receiving (1)	49:2
51:14,19,20;52:3; 53:5;88:4;215:9;	24:15 rare (72)	realization (1)	71:5 recent (2)	regard (6) 52:13;185:6;
229:7	41:16;60:2;61:20,	75:17	69:5;170:21	188:16;189:4;211:4,
quality (8)	22;62:3,3,7,10,12,16;	realize (5)	recently (8)	11
12:15;91:1;133:13;	63:4,6,7,11,18,22;	18:4;165:12;215:5;	66:4;75:12;87:6;	regarding (3)
173:14;214:10,20;	64:1,10;65:10,12,19;	228:6,18	91:16;105:2;167:2;	110:3;117:18;
220:5;232:19	66:5,13;67:10,12,20;	really (160)	175:2;199:8	218:18
quality-of-life (3)	68:8,19;69:1,4,11,15,	11:6,22;12:20;13:3;	recess (2)	regards (3)
109:12;199:16;	17;70:1,7,10;73:5,18;	14:17;15:4,13;18:15,	80:10;125:4	55:4;110:4;157:9
211:5	75:3,6;77:15,16,18;	18;20:1;21:18;22:13,	recognize (11)	Register (4)
quantifying (1)	78:1;82:21;85:21,22;	20;23:13;27:10;30:17,	62:1;70:10;87:10;	107:4,8;149:18,20
52:11	86:3,4,18;87:6;89:13;	21;32:2;39:12;42:2,	108:12;179:15;	registration (2) 204:9,10
quantitative (7)	90:3,6;91:7,12;94:1;	15,22;43:19;44:1,7,	184:20;186:2;222:14, 19;228:2;233:22	204:9,10 registries (8)
51:15;52:10,17; 53:5;88:4;215:9;	106:11;115:10;173:3, 5;185:12,16;199:4,19;	20;46:6;61:14;62:2,5, 6;85:11;87:10;88:14;	recognized (5)	59:14,18;67:15;
229:7	208:4,7,9,14;210:16;	89:3;90:1;91:6,12,19;	34:15;62:4;63:10;	109:10,10;210:22;
questionnaire (7)	211:14;216:7	92:3;93:11,13;95:20;	151:2;160:18	211:7;216:2
49:6;52:16,19,19;	rare-disease-side (1)	96:9,10,17;97:19;	Recognizing (2)	registry (6)
53:3,7,16	230:16	100:18;101:12;103:2;	31:18;193:2	88:22;210:17;
	-	-, -, -, -, -, -, -, -, -, -, -, -, -, -	× ·	,, ,

237:4

79:16

122:2

209:13

129:21

86:2

117:9

116:9

6

15:9

113:11

213:1;214:6;215:12, Remarks (4) 15 regular (2) 170:17;181:22 regularly (5) 149:19;170:3,13,20; 171:8 regulate (7) 187:6,8,11,15,16, 21:188:2 remind (1) regulated (3) 31:20:35:17:39:5 regulates (1) 137:20 removal (1) regulation (3) 21:2;63:8;104:15 REMS(1) **Regulations (8)** 14:12;18:17;81:12; rep (9) 83:16;84:9;114:3; 152:13,14 regulator (1) 56:18 regulators (4) 13:22;216:4,21; reply (1) 218:17 regulatory (35) replying (1) 18:6;25:12;35:5; 45:8;48:14;49:7;54:1; report (5) 55:7,11,19;61:10; 64:8:68:5:72:12:77:8: 90:5:92:10:97:19; reports (6) 98:20:101:8.9:109:2: 113:15:130:4:152:10; 162:20;170:6;171:8; 174:11:184:22; 194:22;197:14; 210:10:212:1,17 regulatory-wise (1) 176:18 reimbursement (1) 198:16 relapse (1) 222:5 related (8) 17:18;47:12;51:2; 52:7;53:2,13;83:1; 149:12 relationship (2) 110:8;210:6 relationships (2) 38:5,19 relevant (1) 178:11 reliable (1) 85:2 relief (1) 222:21 reps (8) relies (1) 97:11 rely (2) 165:17;179:14 request (30) remains (2) 104:4;219:2

43:4,5,10;72:15,16, 10:3:121:5:207:15: 21:78:17:79:2: 104:22;105:3;106:14; remember (17) 115:22;116:2,5,6,11, 13:5;24:3;45:21,22; 13:122:18:123:1; 46:6;96:17;97:21; 151:10;157:16; 171:21;205:7;212:10 121:1;128:2,2,7; 129:10:131:4:148:7; requesters (1) 149:8;224:6;226:6 120:4 requester's (1) 36:21 reminder (1) requests (10) 31:19;35:16;44:6; 45:10;60:12;69:19; 151:6,7,8;157:17 require (1) 129:11 required (2) 139:10;206:12 115:13;178:3; 179:8;182:20;183:1; requires (3) 191:12,13:203:9,19 83:18:149:6:153:4 replication (1) Research (26) 10:15;11:9;12:10, 17,19;18:7;25:13; 27:1;46:13;54:18; 56:6;78:19;81:10; 82:20;135:1;142:2,4; 171:13;183:18;207:8; 139:10;164:16; 208:6;211:9;214:5,15; 167:2;169:15;206:12 215:1,14 researcher (1) 16:9:139:19: 25:20 164:18;166:21;167:4, researchers (5) 54:18:162:21: 210:7;214:4;215:21 represent (6) 22:9;60:1;123:6; resolution (1) 177:4:178:8,9 88:12 representative (16) resort (1) 25:21;55:18;59:9; 117:5 92:13:105:14:165:16; resource (6) 175:19:176:5:177:13: 163:8:164:18: 180:10;181:9;198:7.9; 165:4;182:6;193:5; 202:20;211:16;213:20 214:13 representatives (14) resource-intensive (1) 105:17,19;161:22; 165:8 Resources (11) 162:18;171:7,10,19; 35:11;36:5;44:18; 176:9,11;177:2,3; 180:3,11;181:8 161:13;167:3,10; represented (3) 182:7;196:21;205:7; 51:2;84:6;185:13 223:8,12 representing (1) respect (1) 50:3 represents (2) respectful (1) 108:12;183:7 166:1 reproduced (1) respond (3) 116:10;128:1; 231:19 responded (2) 178:16;179:14,17; 180:15;181:13,19; 220:13,18 182:8,14 responding (3) 41:16;118:3;200:6 19:17;31:22;32:3; responds (20) 34:20;35:21;36:18; 25:9,14;26:12;27:6,

20:77:12:78:3.14; 79:7:99:4.13.21: 100:6;205:12,21; 206:8.14:235:2:236:1. 18 response (26) 10:20;25:1;37:7; 52:21,21;53:11;76:12; 77:1;78:15;85:3;95:2; 98:18;121:20;122:7; 124:11;144:12; 155:10;175:14; 190:19;191:6;204:20, 21;205:2,22;232:22; 234:3 responses (6) 27:21;29:1;43:3; 53:10;119:9;205:11 responsibilities (1) 65:14 responsible (4) 136:2;149:19; 226:4.11 responsibly (1) 84:4 responsive (4) 101:14;121:2; 151:12:152:2 rest (1) 234:6 restricted (1) 110:1 restricts (1) 110:10 results (5) 26:13;84:2;86:9; 234:11:235:4 retention (1) 109:7 rethinking (1) 89:22 retrospectively (2) 89:1;210:21 return (1) 101:13 Review (41) 12:18;34:12;42:1; 47:10;67:8;68:9;70:2; 71:3,19;74:16,21; 75:13;76:7;77:22; 78:10:80:17:81:11.16; 82:5:96:8.12:97:8.14: 106:16;107:1,6;110:7, 12;123:8;144:17; 166:13;173:7,18; 174:6;199:2,6,15; 200:10;203:12;206:6; 231:7 reviewed (4) 72:11:83:13; 107:15:231:2 reviewer (1) 179:22

April 3, 2018

reviewers (5) 66:17:71:3:77:18: 97:18;177:21 reviewing (4) 48:10:172:3.5; 188:17 reviews (3) 55:11:69:8:94:15 reward (1) 137:16 rheumatology (1) 96:2 Rhonda (1) 233:18 Riddick (1) 126:11 right (60) 15:2;16:3,4;20:2,4; 25:7;26:20;27:11; 31:14;37:20,22;42:17; 44:5,10;45:14;59:10; 62:10:81:2:95:14: 97:15;116:7;119:10; 124:12;126:7;128:8; 129:9;133:15;138:4; 140:9;144:9,14;145:2, 7,17;146:4,13;151:6; 152:15,20;154:15; 155:3;156:16;159:16; 166:3;168:2;172:5; 174:2;198:22;201:7; 202:12:205:14: 206:17,18;212:20; 217:14,15;225:6,7; 235:3:236:2 rights (1) 124:20 rigor (1) 85:5 rigorous (2) 61:3:89:4 rigorously (1) 203:17 ripe (1) 197:7 risk (13) 12:13;49:17; 108:16;114:5;129:18, 20;137:16;189:3,5,8; 221:7,14;222:5 risk-benefit (1) 91:3 risks (7) 48:10;49:9;104:6; 129:13;141:19;180:5; 216:14 RNAs (1) 73:15 road (1) 117:1 Roadmap (1) 211:13 roads (1)

CDER and Tou: Reys to	Effective Engagement	Γ	1	April 3, 2018
ab same (1)	26.1	172.9.199.21.190.16	an a siglist (1)	209.15 10
shown (1)	26:1	173:8;188:21;189:16;	specialist (1)	208:15,19
48:11	slide (6)	211:5;231:20	33:5	stage (2)
side (5)	104:18;146:6;	somewhat (17)	specialists (1)	54:12;180:8
17:17;41:13;91:4;	177:6;187:7;190:9;	27:2,9,18;28:5;	182:2	stages (2)
214:9;216:11	194:15	29:9;184:1;205:9,9;	specialty (1)	82:10;169:3
sides (2)	slides (6)	234:17,21;235:6,15,	96:2	staggered (1)
42:12;71:5	12:4;47:4;62:20,21;	21;236:6,13,14,21	specific (14)	172:11
	117:22;122:3			
significant (5)		somewhere (1)	35:10,12;63:16;	stakeholder (15)
178:10;180:9;	slightly (1)	232:13	64:7;78:8;90:8;95:10;	15:11;16:22;22:4;
182:13;214:8;219:2	183:8	son's (1)	110:11;142:10;174:6;	25:5;29:17;31:22;
signs (1)	small (18)	127:11	188:7,15;199:14;	35:14;68:3;77:21;
90:16	17:4;32:10;63:5;	soon (3)	203:10	104:22;105:1;115:22;
silos (1)	64:11;66:14;73:15;	176:7;205:11;230:4	specifically (5)	123:22;138:3;157:2
216:22	75:22;76:5;85:22;	sooner (3)	33:19;81:11;83:17;	stakeholders (37)
Silver (1)	86:7;112:2;115:11;	90:11;92:5;222:8	96:6;154:7	17:22;18:14;19:21;
117:15	149:9;152:9;167:20;	sophisticated (1)	spectrum (1)	20:14;21:6;22:4,7,20;
similar (9)	219:15;226:10;232:5	18:15	47:21	23:13;25:17;31:20;
30:12;71:6;116:12;	smart (1)	sophistication (1)	speed (3)	33:19;34:2,4,7,13,17,
150:15;161:17;	129:16	106:20	62:20;77:22;144:17	19;50:22;67:18;
164:11;189:14;	smooth (2)	sorry (7)	spend (3)	78:17;97:22;101:1,3,
202:15;203:19	72:20:87:11	26:17;41:4;117:10;	30:13;171:3;229:1	4,20;102:7;119:15,16,
similarities (1)	snapshot (1)	130:13;159:17;	spent (4)	17;137:17;159:12;
228:19	182:16	202:11;203:2	62:17;148:11;	164:19;170:12,17;
similarly (1)	snapshots (2)	sort (9)	206:21;233:8	203:8;226:2
171:10	19:1;138:15	14:13;16:10;65:22;	spirit (1)	stand (4)
simple (4)	snowstorm (2)	66:10;73:15;150:16;	10:17	15:20;62:4;137:22;
23:6;36:2;79:1;	156:6;158:12	192:1,7;200:20	spleen (1)	141:22
116:15	social (5)	sound (2)	209:13	stand-alone (1)
simplify (1)	28:15;30:20;61:1;	55:16;92:12	spoke (2)	163:11
38:10	108:3;219:18	sounds (2)	108:7;213:18	standard (2)
simply (1)	socialize (1)	85:18;225:19	sponsor (14)	66:10;148:12
44:2	80:5	Soup (9)	110:8,19;122:21;	standards (1)
single (3)	societies (2)	129:2;130:16,20,21;		215:20
			123:5,9,12,12,18;	
118:2;151:14,14	103:16,21	131:21,22;132:1,11,	124:7;136:4,5;188:13;	standby (1)
sit (2)	sold (1)	19	189:12,12	198:14
126:15;188:14	141:18	source (1)	sponsored (2)	stands (1)
site (1)	solicitation (1)	59:14	131:16;162:10	30:11
95:9	122:14	sources (2)	sponsors (13)	start (23)
sitter (1)	solid (1)	59:17,20	81:18,22;82:8;	12:7;24:7,12;37:9;
127:4	201:15	Sp (1)	87:19;97:1,1,22;98:2;	39:21;54:12;79:14;
sitting (2)	solution (3)	183:16	110:6;112:10;113:19;	80:5;87:7,8;93:10;
67:11;119:5	18:20;33:2;224:12	space (10)	139:15;166:14	103:4;104:9;124:13;
	· · · ·			145:6;158:11;165:5;
situations (1)	somebody (11)	41:11;56:11;94:1,7,	sponsor's (1)	
178:7	14:14,15;17:8,9;	8;156:22;157:4;192:2,	123:17	178:1;201:9;207:12;
six (4)	23:6;143:14;150:12;	8;228:5	spontaneous (1)	220:19;223:4;226:14
80:20;201:14;	223:18,19,21;224:1	Spain (1)	84:15	started (15)
229:8;230:20	somehow (2)	149:15	spots (1)	10:5,7;26:6;35:1;
Sixty (1)	43:13;219:17	speak (6)	35:22	40:4;70:17;91:13;
145:14	someone (11)	14:13;94:8;106:2,	spouse (1)	159:20;161:9,14;
Sixty-seven (2)	37:7;61:7;76:19;	14;155:2;207:22	171:17	194:1;209:15;223:14,
99:5;145:10	117:9;146:8;178:9,14;	speaker (1)	Spring (1)	15;226:12
size (3)	187:18;200:15;	174:22	117:15	starting (7)
58:9;71:10;89:10	203:21;221:9	speakers (5)	squeeze (1)	20:18;82:14;88:9;
skills (3)	sometimes (36)	28:17;105:8;	202:14	90:6;175:22;196:15;
11:11;179:7;228:10	58:11;60:21;61:4;	167:16;168:9;183:9	stable (1)	197:7
skin (1)	79:21,22;86:13;89:11;	speaking (3)	88:12	stated (4)
187:21	91:7,9,17;93:6,9;	105:22;179:10;	staff (21)	54:3;123:13,14;
skip (4)	95:15;106:13;107:7,	228:20	13:18;16:11,16;	154:7
63:1;69:3;70:1;	19;110:13;111:22;	special (10)	28:15;33:5;46:19;	statement (1)
192:4	112:1;113:3,4,6;	65:7;68:15;153:8;	47:7;65:17;66:12,12,	103:8
slap (1)	116:19;117:5;118:19,	176:12;181:12;184:6;	19;69:9;105:2;	States (13)
232:16	21;120:4;121:8;	188:10;198:11;	166:11;168:17;169:3;	14:17;63:8,20,21;
slate (1)	149:14;165:8;170:14;	203:14,17	175:21;191:8;196:13;	68:17,22;69:10,13;

CDER and You: Keys to	Effective Engagement			April 5, 2018
70.12.92.17.122.10.	210.10	successful (1)	surveilling (2)	15:16;17:3,9;22:1;
70:13;82:17;133:10;	210:19	successful (1)		
221:1,16	stretch (1)	66:6	16:18,18	24:22;31:5;39:7,8,9;
statistical (3)	206:19	successfully (2)	survey (2)	41:20,21,22;42:3;
52:12;85:15;86:8	strict (1)	35:7;48:3	52:16;61:5	43:1;46:7,16,20;
statistics (1)	110:3	succinct (1)	surveying (3)	62:22;72:17;74:10;
66:10	strong (6)	103:8	52:18;53:6;180:12	81:10;84:11;97:6,7;
status (1)	112:3,5;193:7;	sudden (1)	surveys (1)	109:20;111:8;116:15;
206:5	205:10;210:6;218:13	140:5	229:8	118:21,22;121:4;
statutory (1)	stronger (1)	suddenly (1)	survive (1)	146:20;147:2;157:8;
49:13	104:3	66:13	48:19	159:21;160:15;
stay (1)	strongly (1)	suffer (1)	survives (2)	161:22;162:2;169:19;
55:3	205:8	15:8	49:3;85:10	170:3;171:8;185:13;
stayed (1)	structured (2)	sufficient (1)	suspension (1)	186:13;189:19;194:8;
121:22	19:19;181:15	11:21	159:4	200:6;203:4;207:6,14;
Step (8)	struggle (1)	sufficiently (1)	Swiss (1)	212:12;213:9;223:17
115:15,15,18,18,19;	15:17	55:17	159:2	talked (9)
			switch (1)	
122:1;218:4,15	studies (19)	sugared (1)		12:22;13:3;23:19;
steps (4)	57:22;58:6;83:6,7,8,	125:1	16:20	38:14;42:21;61:18;
87:18;118:17;	10;84:12;85:6;87:22;	suggested (2)	Switzerland (1)	88:2;90:14;188:9
153:4;192:10	88:7,8,14,21,22;89:3;	84:8;225:18	159:1	talking (20)
steroids (1)	90:2;92:14;209:5;	suggestions (1)	symposiums (1)	15:15;51:21;59:10,
209:12	210:20	103:17	181:6	17;85:15,16;93:3;
sticking (1)	study (18)	suicide (5)	symptom (7)	97:1,21;101:1,3;
237:6	10:15;52:3,7,17;	221:7,14,15;222:6,9	49:1;53:2,13,14;	105:9;109:18,22;
Still (20)	53:6;57:12,13;66:18;	suitability (1)	222:21;223:5;228:4	128:14;133:21;
15:8,17;40:7;94:16;	67:22;84:17;86:2;	150:11	symptomatic (2)	151:13;159:10;226:7;
98:17;112:21;118:16;	89:9,12,19;142:9,15,	suitable (1)	88:11,11	232:6
126:7;128:11;138:18;	17;210:17	52:21	symptoms (8)	talks (4)
146:17;150:20,21;	studying (2)	summarizations (1)	50:10;51:6;90:16,	42:6;45:3;60:19;
152:2;154:1;175:14;	16:4;215:21	113:18	18,20;93:12;199:20;	228:9
192:8;198:5;204:2;	stuff (5)	summarize (1)	214:8	tally (1)
234:12	45:21;58:6;63:1;	55:13	system (14)	205:11
stock (1)	149:6;154:12	summarizing (1)	19:22,22;31:19;	target (1)
99:11	subgroups (1)	52:13	32:16;33:2;35:7;	168:21
stockbroker (1)	199:12	summary (3)	38:20,21;45:9;97:11;	targeting (1)
111:4	subject (2)	164:15,17;167:2	104:22;116:1,1,2	86:15
stop (4)	54:20;57:21	summer (1)	systematic (3)	targets (1)
78:20;79:15;115:4;	subjects (3)	172:7	49:16;136:21;160:5	180:4
153:3	85:1;140:14;162:1	Support (17)	systematically (1)	task (3)
stories (3)	submissions (1)	40:3;65:11;93:18;	160:18	14:2;49:6;67:19
209:18;211:8;212:2	75:6	158:15;166:11,15;	systems (2)	T-ball (1)
story (3)	submit (18)	171:16;207:9,11;	77:5;139:18	127:12
15:1;158:12;230:8	36:17;37:5;54:14,	208:1,6;209:18;	77.5,159.16	team (168)
straightforward (2)	21;55:1,3,5;79:1,2;	215:22;219:9,15,17;	Т	24:6,16;30:19;
36:2;85:18	106:20;147:4;149:4;	220:1	-	43:18;46:18;47:6;
Strategic (4)	152:6;154:4;165:1;	supported (1)	table (12)	63:4,5;73:7;80:6;
35:4;158:16,21;	195:8;213:4;235:1	114:14	10:19;20:5;36:5;	96:10;98:7;119:16;
165:2	submitted (11)	supporting (1)	42:22;51:17;127:15;	126:11,14,14,15,16,
strategies (3)	55:7;83:12;96:20;	216:6	167:21;176:21;	19,21;127:1,4,6,7,9,
96:11;98:2;124:9	107:14;150:1;153:9,	sure (22)	180:11;194:6;207:13;	11,11,16,17,19,19;
strategist (1)	21,21;227:6;231:1;	13:8;20:2;29:2,10;	217:12	128:5,6;129:5,6,8,16,
155:21	232:13	30:11;41:7;43:7;	tables (2)	18,22;130:1,8,9,13,14,
strategy (8)	submitting (4)	62:21;65:3;74:1;86:9,	26:4,5	15,16,17,20,22;131:1,
129:12,19,21;	57:2;147:16;	15;94:20;111:16;	tagging (1)	3,5,6,11,12,19,19,21;
144:10;227:4,12,21;	201:10;213:1	136:5;157:19;172:15;	53:8	132:2,3,10,11,12,13,
228:1	subset (1)	179:5;183:3;195:18;	tails (1)	15,18,19,22;133:3,4,4,
streamlines (1)	232:5	201:16;217:16	15:13	4,7,15,15,17,18,19;
176:3	substance (1)	surgical (1)	take-away (1)	134:2,8,9,18;135:3,4,
strength (1)	136:9	209:13	217:14	5,7,7,8,12,13,16,17;
133:14	substantial (2)	surprised (3)	take-aways (2)	136:3,4,7,12,13,16;
strengthen (1)	83:21,21	43:12;113:3;172:2	47:22;216:19	137:2,3,8,14,21;138:5,
166:8	successes (1)	surveillance (2)	talk (54)	12,13,18;139:3,4,7,12,
stressed (1)	192:19	130:9,10	10:16;11:11,14;	13,16,20,21;140:1,11,
	1	1	1	

Min-U-Script®

19,19,20;141:1,1,2,2, 124:18:159:17 4,11,12,15,20,21; tested (1) 142:1,7,12,12,14,15, 128:18 22:143:1.15.17.22: testified (1) 144:1,3,4,6,7,10; 209:20 145:2,6,8,10,14,15,16, testimonies (1) 20,21;146:3,11,12,13, 213:3 17:148:19:149:5; tests (2) 155:22;158:15;165:3; 77:3;214:19 233:17:234:6 Texas (4) 32:7,10,13;43:7 teams (5) 80:4:94:14:126:10; thalidomide (5) 148:14,18 14:5,10,16;18:16; 20:16 tease (2) 38:4;41:1 Thanks (9) 13:15;23:14;30:6; Technically (1) 183:13,14;195:15; 124:21 technologies (5) 208:21;233:3;235:1 56:4,7,12,17,21 theme (1) technology (1) 101:2 192:11 theory (3) telecon (1) 79:20:141:3.3 181:4 Therapeutic (8) teleconference (1) 99:3;166:9;173:21; 199:9 teleconferences (2) **Therapeutics (2)** 173:16;199:14 12:17;230:12 television (1) therapies (8) 76:21 82:4;88:18;136:21; telling (3) 166:19:186:20; 15:18;113:4;206:21 209:10;213:4;216:5 therapy (4) tells (3) 46:22;69:16;98:8 64:6;92:7;134:21; temperature (1) 188:1 Therefore (1) 147:22 temporary (1) 70:13 thereof (1) 180:15 **Ten** (1) 84:9 209:19 thinking (24) tend (5) 44:11:56:8:61:4; 23:20;64:5;96:1; 75:5:110:15:111:1.3: 140:8:147:3;151:1; 119:19:156:21 tension (1) 160:1;163:21;164:2, 21;166:11,16;167:22; 60:21 term (2) 174:8;190:22;193:14; 42:10;198:12 194:1;201:8,9;231:20 terms (31) third (3) 24:1;27:3,14;29:11; 11:4;71:17;78:6 41:12;42:22;43:21; Thirty (1) 48:14;55:5;58:12; 221:19 59:6:60:4:61:13; Thomas (1) 73:12:95:5:96:7.14: 32:11 97:2,17;108:16; thorough (1) 155:12 118:18;119:11; 133:13,13;134:15; though (7) 177:7,22;178:3;189:7; 40:21;63:18;76:4; 196:1;207:6 94:8;95:15;172:8; terribly (1) 200:13 122:20 thought (9) terrific (1) 66:2:90:5:135:10; 62:6 143:18;191:22; test (5) 192:12:206:22; 36:17;37:5;76:16; 229:12.13

thoughts (2) 112:7:166:7 thousands (7) 16:15;17:11,11,12; 107:7,21;111:12 threatening (1) 64:5 three (17) 35:10;68:20; 120:11;131:8;148:14, 18;156:20;172:11; 184:1,2;187:3;189:22; 208:15;211:12;220:8, 12:221:19 three-part (1) 33:1 three-year (1) 172:13 threw (1) 48:14 thrombocytopenia (1) 208:3 throughout (9) 28:10.16:40:10: 174:1,3,6;187:9;221:5 49:22;54:8;55:14; 157:12;180:4;215:10 throw (1) 73:11 till (1) 133:13 timely (1) 232:12 times (8) 128:11:153:8.22: 156:2;200:8;215:10; 218:19;228:16 timing (1) 54:7 tin (1) 148:10 tip (2) 23:11:24:13 tired (1) 232:21 tissues (2) 134:21;187:21 Titlis (1) 159:2 tobacco (3) 148:20;151:20; 169:17 today (33) 13:21;15:8;19:16; 22:15;23:17;25:6,21; 29:4,13;30:4;45:22; 47:12;96:16;100:18; 157:7,22;164:12; 174:18;183:6,15; 184:18;186:12; 190:15,21;208:1; 211:17;212:16; 215:11:217:19; 220:14;230:12;233:6;

236:12 today's (2) 105:8:237:1 toes (1) 28:10 together (18) 31:1;60:4;74:1; 107:13,13;126:17; 156:21;176:1;187:4; 216:22;217:1;219:19; 229:14;230:20; 231:18;232:17,18; 234:5 told (4) 14:15:98:10; 175:12;183:22 tolerability (1) 83:6 tolerance (1) 108:16 ton (1) 29:12 took (4) 116:21;168:19; 225:20,21 tool (1) 52:15 tools (7) 86:22;90:4;91:6,8; 98:3;166:18;226:12 top(3)148:15;159:2;193:4 topic (4) 13:20;52:1;95:7,19 topics (1) 164:2 total (1) 71:15 totally (1) 198:5 touch (2) 59:5.19 touched (1) 188:5 tougher (1) 28:11 toward (1) 23:12 towards (2) 88:19;208:12 town (2) 32:10.13 track (3) 24:16,19;232:1 trade (2) 103:15,21 traffic (2) 10:6:117:15 trained (1) 61:1 training (3) 66:20;77:17;181:22 transcripts (1)

April 3, 2018

164:15 transfer (1) 62:20 transferred (1) 47:4 transform (1) 48:3 **Transformation** (1) 170:1 transition (2) 33:7;206:10 transmitted (1) 187:20 transparency (7) 14:22;18:22;19:10; 20:7;34:10,11;157:10 transparent (1) 109:15 travel (5) 44:19;87:10; 117:11;119:20;200:21 traveled (1) 80:19 traveling (1) 201:20 travels (1) 237:11 treat (2) 78:1;209:11 treating (2) 136:10:221:18 treatment (19) 50:4:51:9.11:85:8; 89:15,18;136:21; 162:2,3;166:9;173:12, 15;208:10;209:11; 212:19;214:9,22; 223:5:229:4 treatment-resistant (1) 232:4 treatments (9) 49:12:50:11:78:8; 135:2;142:11;210:1; 214:19;216:1;218:19 tremendous (1) 18:13 tremendously (1) 19:8 trend (1) 193:12 triage (3) 36:12:116:6:157:18 triaging (1) 37:9 trial (28) 16:2;18:12;21:13, 16;55:9,9,10;66:5; 71:8,8;78:11;79:11; 87:15;89:7,18,19; 90:11:91:14,20:92:3, 5:93:3.15:138:9.15. 19;139:2;142:17 trials (40)

Min-U-Script®

022114114 1040 11035 00	Zineen te Zingegement			F ,
16:2;18:9;19:3,4,6,	TV (1)	64:4,18	66:9;82:16;84:7;91:9;	109:4;112:19;
7;21:1,14,15,22;45:4;	159:15	unexpected (1)	92:11;93:6;97:18;	173:22;185:1;186:8;
64:12,16;65:9;66:8;	tweet (1)	130:7	103:11;129:14;134:8;	232:17
71:11;86:4;88:5;	80:6	unfortunately (3)	135:15;136:9;138:21,	values (1)
91:16,18;108:19;	tweeting (1)	86:19;192:9;210:3	22;150:15;154:19;	47:17
109:6;129:3;135:22;	28:15	uninvited (1)	164:5,5;177:8,8;	variability (1)
138:8,19,20;140:11,	Twenty-two (1)	78:20	179:5;181:11;213:2;	89:6
12;141:4,5;142:7,8;	235:4	unique (6)	223:12;225:7	variables (1)
170:1;211:1;213:2;	two (25)	25:18;160:21;	used (17)	88:16
216:1,5;222:20;228:3	30:1;35:22;39:14;	· · · ·	51:18;55:8,11;	variant (1)
	44:19;74:15;114:6;	164:5;184:7,21; 192:18		189:4
triathlons (1) 80:20	116:21;117:19,20;		56:13;58:22;59:20;	varied (1)
	120:10,20;126:7,8,8;	United (13) 14:17;63:8,19,21;	75:13;89:16;90:4; 107:15;109:1;135:1;	108:15
Tribulations (9)				variety (3)
129:3;135:22;	151:21,21;156:5;	68:17,22;69:10,12; 70:12:82:17:122:10:	144:16;156:1;187:16; 216:20,21	
138:19,20;140:11;	163:16;172:11,13;	70:12;82:17;133:10;		86:19;189:10;
141:4,5;142:7,8	196:1;197:15;198:8;	221:1,16	useful (6)	217:17
tried (5)	200:19;202:10	unless (2)	10:13;22:12;23:10;	various (8)
14:14,14;20:6,7;	two-thirds (3)	24:1;42:5	56:17;61:9;173:19	23:2;51:4;55:2;
144:10	221:3,12;222:1	unmet (15)	user (5)	163:18;185:10;186:9;
TRNDs (1)	two-way (2)	41:9;51:11;166:16;	131:1,3;132:13,15;	189:17;210:1
67:21	42:10,15	214:3,17;215:6;218:5;	195:9	vast (1)
trouble (3)	type (15)	220:20;222:13,14;	user-friendly (1)	189:22
31:2;99:15;117:11	11:2;25:21;40:12;	224:10,13,17,22;	34:18	version (1)
true (6)	44:13;48:11;52:7;	227:13	users (2)	62:21
32:14;100:5;206:6,	55:6;58:13,18;98:1;	unpaid (1)	54:5;133:6	versus (2)
6,13,15	161:17;164:15;	122:13	uses (1)	86:11;112:3
truly (3)	194:19;200:12;233:21	unplanning (1)	139:18	vested (1)
161:20;162:8,11	types (9)	43:13	using (14)	108:14
trust (1)	51:18;59:19;61:17;	unusual (1)	36:17;42:10;49:4;	vetted (1)
113:19	131:17;133:9;150:10;	230:22	51:14,21;52:11,18;	20:4
truth (3)	164:4;169:13;188:4	up (60)	53:4;55:16;56:21;	via (1)
100:16;113:14;	Typically (15)	10:18;18:21;19:17;	57:17;59:14;129:15;	11:19
221:11	49:5;82:14;133:11;	23:9;24:22;28:8;29:6;	224:12	vice (1)
try (18)	140:13;149:11;163:2;	32:5,15;36:19;45:9,	Usually (2)	207:9
10:8;18:22;42:19;	164:3,6;182:11;199:4,	14;53:15;55:21;61:7;	74:17;134:11	video (5)
46:9;71:10;111:9,19;	18;200:5,11;201:12;	62:4;66:7;68:2,9,16;	utilized (1)	29:6,16,21,22;30:2
112:6,15;120:7;	205:17	70:3,17;74:10;80:13;	223:8	view (11)
157:14;164:8;175:7;		81:22;94:19;95:12;		41:6;101:15;
179:1;202:4,5,14;	U	96:5;111:11;122:1;	V	105:16;106:3,17,22;
223:3		124:16;125:1;126:14;		112:3,5,11,14;159:6
trying (26)	ultimate (2)	137:11;145:2;148:14;	vacation (1)	viewpoints (2)
13:3;17:2;19:10,11,	23:12;48:8	153:1;155:8,14;	168:19	44:12;131:10
21;20:16;23:5;29:20;	Ultimately (3)	156:14,15;159:5;	vaccines (6)	views (6)
44:8,21;49:15;56:16;	104:7;158:4;213:7	162:4;170:15;179:20,	134:19;187:8,8,9,	49:9;50:1;51:10;
60:19;61:13;76:4;	unable (1)	21;190:12;192:13;	10,10	112:6,7;113:22
97:3,11,13;119:14;	178:9	194:15;212:5,11;	Vaidya (5)	Villanova (1)
121:2,3,11;147:20;	unapproved (1)	215:8;218:11;224:2;	158:18,19;159:19;	31:4
196:17,18,22	138:22	225:5;228:2;230:3;	193:21;201:2	Virginia (2)
Tuberous (1)	uncomfortable (1)	233:9;234:19;235:5	valid (1)	200:22;202:1
59:12	109:19	update (1)	84:21	virus (1)
tuna (1)	under (8)	175:3	validate (1)	187:19
148:13	11:14;42:1;71:2;	updated (2)	88:3	visible (1)
tuned (1)	84:7;110:3,12;166:13;	63:2;69:5	validated (1)	233:10
55:4	206:6	upon (8)	228:10	vision (2)
turn (6)	underage (1)	59:5,19;93:8,12;	validating (1)	34:14,18
26:3;98:4;113:13;	148:22	97:11;115:20;120:18;	91:10	visit (2)
167:12;216:3;217:5	underlying (3)	150:8	Valley (1)	78:22;149:22
turnaround (4)	21:3;63:16;113:8	URL (1)	147:13	visitor (1)
116:8;119:8,9,11	underscore (1)	45:12	valuable (6)	149:3
turned (1)	187:5	use (35)	109:9;114:17;	visitors (1)
199:7				
	understandable (2)	24:5,13;33:10;	173:19;217:13;	149:2
turning (1)	understandable (2) 170:13;189:9	24:5,13;33:10; 41:12;47:17;52:15;	223:13;233:9	vital (2)
	understandable (2)	24:5,13;33:10;		

022114114 1040 11035 00	zaretta e zangegement			F ,
voice (20)	159:16;160:21;175:9;	117:2	236:9;237:7	68:1;73:4;81:16;
13:2;25:22;48:1,5;	182:13;189:8;194:3,	Whereupon (3)	wish (2)	82:18;111:12,18;
108:7,8;109:2;154:3;	19;216:9;230:19	80:10;125:4;237:14	94:16;192:16	118:16;126:17;
157:19;158:1;168:13;	ways (18)	White (9)	wished (1)	128:11,14,18,19;
172:19;176:16,17;	39:14,16;41:15,20;	44:20;78:20;	15:5	133:9;141:18;146:18;
184:20,21;194:2;	44:15;65:13;66:2,7;	102:11,19;117:12,16;	within (35)	152:7;156:21,22;
205:5;212:1;214:11	91:5;94:21;96:18;	127:14;167:20;224:20	36:7,13,15;37:7;	157:4;158:4;169:4,6,
voices (5)	142:19;181:1;193:9,	whoa (1)	39:18;67:12;73:7;	11;173:8;175:16;
22:21;172:16;	15;211:20;212:16;	122:15	77:17;81:8,9;89:6;	183:18;185:18,18,22;
176:17;197:1;208:8	217:19	whole (13)	93:11;112:1;120:10;	185:18,185:18,18,122, 186:14;191:18;192:1;
volume (1)	wearables (1)	33:1;34:10;40:20;	121:20;134:22;165:9;	199:6;208:10;209:4;
75:6	56:8	86:19;110:17;118:10;	166:20;175:16,18,20;	211:21;216:22;217:1;
volunteers (2)	web (8)	128:13;137:15;	182:10,14;184:2;	231:22;233:22;234:5
126:7,8	33:6;35:2,9;36:2;	120:13,137.13, 150:13;195:1;197:10;	182:10,14,184.2, 185:5,8,17;187:6,15;	worked (5)
vote (2)	102:20;117:13,14;	215:19;220:21	199:8,12;200:22;	76:19;80:19;
235:18;236:16	164:14	Whoops (1)	212:10;225:22;229:4	121:21;191:13;197:10
votes (1)	webcast (4)	202:10	without (6)	working (19)
235:1	11:19;29:5;164:12;	who's (9)	79:20;135:15;	15:22;16:12;67:17;
	202:3			
voting (2)		14:15;98:7;127:4,	153:1;190:16;199:20;	74:7;97:1,2;158:8;
180:15;234:20	WebEx (3)	11,19;178:9,14;	219:18 witnessed (1)	171:6;176:1;185:11,
voucher (2)	44:16;121:3,10	182:17;191:11	witnessed (1)	12;197:9;218:3,8,17;
67:9;76:7	webinar (1)	WHYTE (134)	106:4 Waman (1)	227:16;228:13,14;
W	182:4	10:4;23:16;25:2;	Woman (1)	232:3
vv	webinars (2)	30:9;32:9,18,22;33:4;	175:7	works (5)
	174:12;182:1	35:3;38:6;41:4;43:7;	women (1)	77:20,22;102:2;
wager (4)	webpage (1)	45:20;47:3,6;60:17;	19:3	115:20;135:16
143:13,15,17;145:8	29:18	62:9;76:15;79:10;	Women's (1)	workshop (23)
wagered (1)	website (10)	80:12;81:2;95:5;	74:14	11:5,7;12:1;13:21;
145:9	33:3;61:8,15;95:16;	98:14;100:9;102:17;	won (1)	28:21;30:18;33:7;
wait (4)	106:7;117:6,22;164:2;	108:22;118:8;119:5,	80:7	66:5;163:13;182:9,10,
128:16;129:10;	167:5;177:11	14;122:5,9,12,15;	wonder (2)	17,20;183:15;209:3;
133:13,21	week (4)	123:10;124:12;126:4;	73:5;175:7	211:14,17;215:10;
waiting (1)	62:17;148:12;	127:9,19;128:16,22;	wonderful (2)	225:20;226:1,16;
175:14	151:19;192:13	129:9,20;130:3,10,16,	121:22;122:4	228:16;236:13
waiver (1)	weeks (3)	18,21;131:2,4,7,14,22;	wondering (4)	workshops (9)
179:5	120:11;171:4;199:8	132:4,9,12,14,16,20;	56:6;59:13;74:21;	66:1,22;174:12;
walk (4)	weigh (1)	133:1,8,18,20;134:4,	94:12	181:6;189:11;208:22;
116:16;151:9;	195:16	10,19;135:5,7,9,14,18,	Woodcock (20)	211:13,18;212:15
153:5;197:21	Weill (1)	21;136:5,9,14,18;	12:8;13:12,14,15;	world (6)
walked (2)	214:2	137:5,9,13,15,22;	23:16,19;24:10;31:9;	93:2;100:15; 113:16;152:20;208:5;
159:5;226:16	welcome (15)	138:2,6,14,20;139:5,9,	32:22;35:1;36:8;42:6,	
walk-in (2)	11:4;12:3,7;26:15,	14,17,22;140:2,4,12,	21;45:3;60:18;97:9;	220:7
149:2,3	18;80:13;81:5;102:18,	19,21;141:5,13,16,22;	102:6;120:1;123:14;	world's (1)
wants (3)	20;118:7;131:8;	142:3,8,16;143:3,10,	138:12 Waadaaakia (2)	98:20
51:1;91:22;217:8	149:3;158:17;161:15;	18,21;144:2,5,8;	Woodcock's (2)	worse (1)
waste (1)	183:10 well controlled (4)	145:1,6,11,17,19,22;	34:14,17	159:8 Wow (1)
45:6	well-controlled (4)	146:5,11,13,17;147:7; 155:18;206:18;224:6,	Woo-hoo! (1) 126:6	Wow (1) 99:22
wasted (1)	83:22;84:12,17;			
153:20	87:15	7;225:11,13;226:6;	W0000! (1)	Wow! (3)
watch (2)	weren't (2)	230:2;231:11;232:20;	135:21 Waaaaa! (1)	137:16;138:4;
12:3;76:21	34:9;116:22	233:1;234:9;236:9;	W00000! (1)	155:11
watching (1)	what's (27)	237:4,5	137:10	wrap (1)
133:22	13:1;14:12;30:10;	Whyte's (1)	word (4)	28:8
way (36)	42:3;44:3;75:7;94:13;	25:4	57:8;200:3;231:2;	wrapping (1)
22:22,22;39:13;	116:8;136:13;140:4;	willing (4)	232:12	230:3
44:22;46:2;48:4;	142:12;145:8,9,14;	32:1;82:9;225:3,4	words (4)	Wright (5)
49:16;55:15;56:13;	147:3;157:14;177:19,	win (3)	48:17;233:3;236:9;	147:7,8,17,18;
72:16;74:10;95:14;	19,22;185:14;193:19;	138:16;141:3;146:8	237:7	155:11
97:17;105:6;107:21;	204:5;215:5;226:21;	winner (2)	work (58)	write (3)
108:2;111:17;114:3;	228:13,13;230:6	146:14;169:1	11:2;16:17,22;17:7;	45:13;144:12;
118:10,17,22;122:1,7;	whatsoever (2)	winning (1)	19:12;20:1;30:17,22;	167:21
128:12;136:22;	18:18;235:8	128:5	32:6;34:17;46:13,14;	writing (1)
145:12;155:14;	wheelchair (1)	wisdom (2)	67:7,13,18,19,20;	193:18
		•	•	

	Effective Engagement			April 5, 2016
written (3)		1957 (1)	21 (1)	
57:16;95:18;198:1	1	150:19	221:1	4
wrong (2)	1	1962 (1)	21st (9)	4
18:11;144:9		83:17	12:15;33:14;49:10;	
	1 (52)			4 (44)
wrote (2)	63:19;83:5;98:19;	1973 (1)	50:5;75:2;141:12,13;	127:1,16,19,19;
145:22;224:20	115:15,18;126:11,14,	150:21	170:21;194:15	129:5,6,8;130:8,9,12,
	14,15;127:4,6;129:17,	1980s (1)	22 (2)	14,15;131:11,12,19,
Χ	18,22;130:1,16,17,20;	186:5	27:11;234:18	21;133:4;135:3,7,8,
	132:2,3,10,11;133:3,7,	1st (1)	24 (4)	12,13;137:2,3,8,14,21;
xenotransplantation (1)	17,18,19;134:2,8,9,18;	232:14	161:3,12;163:6;	138:5;140:1,19,20;
188:1			175:2	
10011	139:3,4,7,20,21;	2	25 (3)	141:1,4,11,12,15;
Y	140:11;141:1,2,20,21;	-	128:5;222:8,8	144:6,7;145:14;
1	142:1,7,22;143:1,15,	2 (33)	250 (1)	146:11,12,13;205:19;
(21)	17;145:2,20,21;146:9;			206:11
year (21)	205:18	28:3;83:7;99:8;	219:21	4,000 (2)
16:12;17:11;22:19;	1-(1)	115:15,18;123:2;	2800 (1)	74:18;75:4
38:21;63:12,12;68:16,	24:17	126:19;127:7,9;	141:2	4[00] (1)
16,19,20;69:11;70:17;	1:00 (2)	130:22;131:1,3,5,6;	29 (1)	139:16
71:14,16;72:14;	124:14;125:2	132:12,13,15,18,19,	236:21	40 (3)
180:22;182:9;201:11;	1:01 (1)	22;133:4;135:7;136:3,	2900 (1)	68:21;69:5;180:21
206:3;213:1;225:22		4,7;142:14,15;143:22;	141:1	
yearly (1)	126:2	144:1;145:15,16;	29th (1)	400 (6)
	10 (7)		171:22	132:11;134:2;
66:19	63:19;121:20;	205:15;235:16	171.22	138:5;139:17;141:4,5
years (42)	144:21;153:22;171:6;	2:00 (1)	2	402-7500 (1)
12:20;17:2;31:9;	205:18;206:1	80:1	3	154:20
62:6;68:20;69:20;	10,000 (1)	20 (12)		41 (1)
70:7;72:2;104:2;	159:4	26:16;27:10;72:11;	3 (36)	236:6
127:12;128:10;148:1;	10:37 (1)	80:3,8;119:22;148:1;	83:8;115:19;	42 (1)
171:6;172:11;189:3;	80:10	151:11,11;208:2;	126:21;127:11,11,17;	206:2
192:5,22;193:16,20,	100 (9)	209:9;234:15	130:13;131:19;133:4,	44 (4)
22;194:4,17;195:3,13;		200 (11)	15;135:4,5,16,17;	
196:1,7;197:5;205:19,	128:4;131:21;	130:15,16;131:6,7;	136:12,13,16;138:12,	28:1;145:21;146:1;
	132:1;136:8;141:15,	135:13;139:8,9;	13,18;139:12,13,16;	235:14
19;208:2;209:9,19;	16;142:7,8,18			46 (1)
210:4;219:12,19;	100,000 (1)	140:11;172:1;177:1;	140:20,21;141:2;	144:15
220:8,13;221:19;	208:5	202:19	142:12;144:3,4,10;	
222:8,8,15;228:3	101 (2)	200,000 (1)	145:6,8,10;146:3;	5
year's (3)	66:17;181:17	63:9	206:4;236:22	
147:15;182:16;	1020 (1)	2000 (2)	3,000 (1)	5 (4)
201:6	152:13	12:13;141:2	151:21	33:10;127:12;
years' (1)	102.15 10th (1)	2002 (1)	3:07 (1)	128:4;145:16
225:2	221:15	12:16	237:14	
yesterday (3)		2008 (1)	3[00] (1)	50 (3)
	11 (1)	209:19	136:17	65:6;75:16;120:1
127:12;175:18,22	79:14			500 (9)
Yikes! (1)	1100 (1)	2012 (3)	30 (7)	128:4;132:19;
156:11	144:2	160:17;161:1;194:1	61:8;72:5;124:14;	133:4;134:18;137:8,9;
yoga (1)	12 (2)	2013 (2)	219:12;222:15;228:3;	138:19,21;177:4
46:22	205:19;231:10	78:7;136:19	232:13	50-year (1)
York (1)	12:02 (1)	2015 (2)	300 (9)	213:22
156:2	125:4	47:19;161:9	130:2,3,20,21;	53 (4)
young (3)		2016 (2)	133:7,8;136:1,18;	
45:20;156:10;	13 (1)	141:6;210:14	177:4	28:5;71:16;235:15;
209:10	151:17	2017 (7)	3002c (1)	236:3
	1300 (2)			54 (1)
youngest (1)	133:3;137:15	93:20;136:19;	50:5	77:13
30:19	1400 (1)	144:16;161:1;169:4;	3100 (1)	56 (1)
	16:13	212:4;213:9	144:7	69:6
Z	15 (2)	2018 (2)	32 (1)	57 (1)
	144:21;153:22	35:8;212:14	219:19	234:17
		2019 (1)	35 (2)	58 (1)
Zac (1)				
Zac (1)	15th (1)			
233:15	15th (1) 211:17	201:8	180:21;226:10	27:9
233:15 zero (1)	15th (1) 211:17 16 (2)	201:8 20-minute (1)	180:21;226:10 3's (1)	27:9
233:15	15th (1) 211:17 16 (2) 65:5;220:22	201:8 20-minute (1) 79:13	180:21;226:10	
233:15 zero (1)	15th (1) 211:17 16 (2)	201:8 20-minute (1)	180:21;226:10 3's (1)	27:9

02 211 ana 1 out 11035 to	2	1	1	F
205:17,18;206:1;				
231:10;236:6				
60 (2) 146:11;180:21				
600 (1)				
219:22 61 (1)				
146:9				
63 (2) 72:7:205:12				
72:7;205:13 66 (1)				
235:5				
67 (2) 145:13;146:5				
68 (1)				
236:20				
7				
7 (6) 33:10;37:7;39:19,				
20;93:20;236:3				
7,000 (1)				
63:11 700 (1)				
133:4				
72 (1)				
69:11				
8				
8,000 (1)				
75:4				
80 (3)				
26:14;70:6;234:12 800 (1)				
144:5				
80s (2) 176:6;186:7				
·				
9				
9 (4)				
35:7;93:20;206:16; 208:5				
9:02 (1)				
10:2				
90 (1) 72:5				
900 (1)				
141:2 00 ₂ (1)				
90s (1) 176:6				
95 (1)				
208:9				