

NEW DRUGS REGULATORY PROGRAM MODERNIZATION:

# IMPLEMENTATION OF THE INTEGRATED ASSESSMENT OF MARKETING APPLICATIONS

A VIRTUAL PUBLIC WORKSHOP

OCTOBER 30, 2020 | 9:00 AM – 3:00 PM | VIA WEBCAST ONLY

**BREAK: 10:15 AM – 10:30 AM**

*Please remember to rejoin us at 10:30  
for the external stakeholder panel*



## External Stakeholder Perspectives: Panel – Meeting the Needs of External Stakeholders

**10:30 AM – 12:00 PM**

**Moderated by**

**Sarah Connelly, MD**, Clinical Team Leader (Acting), Division of  
Antivirals, Office of Infectious Diseases, US FDA

**John Farley, MD, MPH**, Director of the Office of Infectious Diseases,  
Office of New Drugs, US FDA



## Moderators:

John Farley, MD, MPH & Sarah Connelly, MD

## Panelists:

Naga P. Chalasani, MD, FAASLD, *American Association for the Study of Liver Diseases*

Gregory Curfman, MD, *Journal of the American Medical Association*

Jonathan Darrow, SJD, LLM, JD, MBA, *Harvard Medical School*

Kristin Dolinski, *Pharmaceutical Research & Manufacturer's of America*

Danielle Friend, PhD, *Biotechnology Innovation Organization*

Richard J. Kovacs, MD, MACC, *American College of Cardiology*

Eleanor Perfetto, PhD, MS, *National Health Council*

Joseph S. Ross, MD, MHS, *Yale-New Haven Hospital*

Richard White, *National Organization for Rare Disorders*

**Naga P. Chalasani, MD, FAASLD**

*American Association for the Study of Liver Diseases*

# FDA INTEGRATED DRUG REVIEWS

## Statutory Considerations

Gregory Curfman, MD

Deputy Editor, JAMA

October 30, 2020

# FDA INTEGRATED DRUG REVIEWS (IDRs) STATUTORY CONSIDERATIONS 1

## CONCISE SUMMARY

Herder M, Morten CJ, Doshi P. Integrated Drug Reviews at the U.S. Food and Drug Administration -- Legal Concerns and Knowledge Lost. *JAMA Intern Med.* 2020;180(5):629-630. doi:10.1001/jamainternmed.2020.0074

## CONTROLLING STATUTE

Food and Drug Administration Amendments Act of 2007 (FDAAA),  
21 USC §355(l)

## DO IDRs COMPORT WITH THE STATUTORY LANGUAGE?

Corollary: Is the plain text of §355(l) of the statute unambiguous?

# FDA INTEGRATED DRUG REVIEWS

## STATUTORY CONSIDERATIONS 2

### KEY TEXTUAL LANGUAGE IN §355(I) OF FDAAA

-A summary review that documents conclusions from all reviewing disciplines about the drug, noting any critical issues and disagreements with the applicant and within the review team and how they were resolved, recommendations for action, and an explanation of any nonconcurrency with review conclusions.

-Decision document includes a separate review or addendum to the review if disagreeing with the summary review.

-Identification by name of each officer or employee of the Food and Drug Administration who participated in the decision to approve the application

-A scientific review of an application is considered the work of the reviewer and shall not be altered by management or the reviewer once final.

# FDA INTEGRATED DRUG REVIEWS

## Statutory Considerations 3

### CONCLUSIONS

- On the basis of the plain text, the 2007 law (FDAAA) assumed the preparation of individual scientific reviews, including disagreements, and was explicit about the need for these reviews, which are the work of the individual reviewers, to be published in an unaltered form. (Herder et al.)
- It is not obvious that the IDRs will comport with the plain text of §355(l). If the plain text is deemed unambiguous, FDA's interpretation of the text would not be granted deference.
- If the content of FDA Integrated Drug Reviews conflicts with the clear language of FDAAA, the Integrated Reviews may be subject to scrutiny.
- It is essential that the Integrated Reviews adhere closely to the spirit and the letter of the statute.



**Jonathan Darrow, SJD, LLM, JD, MBA**

*Harvard Medical School*

# Individual FDA Reviewer Insights Should Be Preserved

Jonathan J. Darrow, SJD, LL.M., JD, MBA

*Assistant Professor of Medicine, Harvard University*

*Associate Professor of Law, Bentley University*

Oct. 30, 2020

## **Federal Register notice (8/13/20)**

○ Represents FDA's conclusions regarding key scientific and regulatory issues while describing any differences of scientific opinion or perspective,

○ Includes any dissenting data interpretations.

○ includes separate reviews of reviewers who disagree with significant elements of the Executive Summary and Interdisciplinary Assessment sections or the decision of the Signatory Authority.

- Preserve reviewer comments about:
  - weaknesses, skepticism, critique, characterizations, etc.
  - not just “disagreements”

# Minor Points

- Ensure all pages are **text searchable**
- Ensure all pages are “**portrait**” (not “landscape”)
- Provide specific info:
  - **programs**/pathways on the first page/Table:
    - e.g., fast-track, AA, breakthrough, QIDP, LPAD, 505(b)(2)
    - (not just “priority” vs. “standard”)
  - WHO **ATC code** (not just pharmacologic class)
  - **IND** effective date

# Use Plain-Language Efficacy

The primary efficacy endpoint was assessed in the Randomized Cohort. The study to show superior antiviral activity of FTR compared to placebo when combined with a regimen over a period of 8 days. At least 140 subjects were planned to be randomized to FTR or placebo. Log<sub>10</sub> HIV-1 RNA change from Day 1 to Day 8 was calculated using

Table 15. HIV-1 RNA (log<sub>10</sub> copies/mL) Results for Randomized Cohort—ITT-E Population, BRIGHTE Trial

Study Visit and Imputation Used (If Any)	FTR 600 mg BID (N=201)					Placebo (N=69)				
	n	Mean	SE	Upper 95% CL	Lower 95% CL	n	Mean	SE	Lower 95% CL	Upper 95% CL
Screening	201	4.533	0.06	4.41	4.65	68	4.656	0.112	4.43	4.88
Baseline (Day 1)	201	4.437	0.069	4.3	4.57	69	4.38	0.142	4.1	4.66
Day 8	195	3.646	0.074	3.5	3.79	65	4.161	0.147	3.87	4.45
Day 8 (LOCF)	201	3.643	0.073	3.5	3.79	69	4.222	0.143	3.94	4.51
Day 8-Day 1 (LOCF)	201	-0.794	0.051	-0.89	-0.69	69	-0.158	0.075	-0.31	-0.01

Source: Statistics Reviewer's analysis

Abbreviations: BID, twice daily; CL, plasma clearance; FTR, fostemsavir; ITT-E, intent-to-treat, exposed; LOCF, last observation

- Help readers understand what this means:
  - How much longer will patients live?
  - How much better will patients feel (or function)?

**Kristin Dolinski**

*Pharmaceutical Research & Manufacturer's of America*

**Danielle Friend, Ph.D**  
**Senior Director, Science and Regulatory**  
**Affairs**

**Biotechnology Innovation Organization**

**Implementation of the Integrated**  
**Assessment of Marketing**  
**Applications and Integrated Review**  
**Documentation**

**October 30, 2020**



**Richard J. Kovacs, MD, MACC**

*American College of Cardiology*



# Who we are

- 56,000 member, worldwide professional society.
- The trusted source for guidance on all aspects of cardiovascular care in the U.S. (90% of all practicing cardiologists) – including guidelines, expert consensus pathways, and patient facing information.
- A partner to FDA through the ACC National Cardiovascular Data Registries.





# What we stand for, and how we are changing in 2020 and beyond.

- In support of
  - Advancing regulatory science
  - Modernizing the drug safety system
  - Incorporating patients and their input into the total product lifecycle
- Multidisciplinary
  - Cardio-oncology
  - Cardio-diabetes
  - Cardio-obstetrics



# ACC Comments Regarding Integrated Assessment

## Alignment

- Familiarity with interdisciplinary review of QT
- Reflects the new collaborative nature of cardiology
- Supports ACC goals regarding science, safety and patient voice

## Potential Concerns

- Groupthink
  - designated “contrarian”?
- Accurately reflecting the input of advisory committees?
- Consistency across time for repurposed drugs: fenfluramine



# Integrated Assessment of Marketing Applications Virtual Workshop

## External Stakeholder Perspectives: Panel – Meeting the needs of External Stakeholders

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ELEANOR M. PERFETTO, PHD, MS

INTERIM CHIEF EXECUTIVE OFFICER

NATIONAL HEALTH COUNCIL





 National Kidney Foundation®

 The LAM Foundation  
A BREATH OF HOPE

 American Diabetes Association®

 National Alopecia Areata Foundation

 COPD FOUNDATION

 **FIRST**  
Foundation for Ichthyosis & Related Skin Types®  
Educate • Inspire • Connect

 **EPILEPSY FOUNDATION**

 PANCREATIC CANCER ACTION NETWORK®

 American Heart Association®

 Celiac Disease FOUNDATION.  
celiac.org

 American Kidney Fund®

 GBS | CIDP Foundation International

 **FH** FOUNDATION

 **1** ALPHA-1 FOUNDATION

 NATIONAL Eczema ASSOCIATION

Help Us Solve The Cruel Mystery  
**LUPUS**  
FOUNDATION OF AMERICA

THE **TREVOR** PROJECT

 **MHA**  
Mental Health America

 AMERICAN LIVER FOUNDATION™  
Your Liver. Your Life.

 Huntington's Disease Society of America

 **PKD FOUNDATION**  
Polycystic Kidney Disease

 **resolve**  
THE NATIONAL INFERTILITY ASSOCIATION

 colorectal cancer alliance

 **FARE**  
Food Allergy Research & Education

 **aafa** Asthma and Allergy Foundation of America

 Children's Cardiomyopathy Foundation

PUTTING PATIENTS FIRST  
 NATIONAL HEALTH COUNCIL

 amputee coalition™

alzheimer's  association™

 Arthritis Foundation™  
Champion of Yes™

 American Cancer Society®

 **MGFA** MYASTHENIA GRAVIS FOUNDATION OF AMERICA, INC.

 Children's Cardiomyopathy Foundation

 Immune Deficiency Foundation

 THE **MARFAN** FOUNDATION  
Know the signs. Fight for victory

 Tourette Association of America

 **BEYOND CELIAC**  
awareness • advocacy • action

 American Foundation for Suicide Prevention

 Spina Bifida Association of America

 OSTEOGENESIS IMPERFECTA  
**OI** FOUNDATION  
Unbreakable Spirit®

 WomenHeart  
The National Coalition for Women with Heart Disease

 **cure SMA**

 NATIONAL HEMOPHILIA FOUNDATION  
for all bleeding disorders

 **EVERYLIFE** FOUNDATION FOR RARE DISEASES

 **MS**  
National Multiple Sclerosis Society

 Prevent Blindness®  
Our Vision Is Vision®

 **GO2** FOUNDATION FOR LUNG CANCER

 **ABDA**  
American Bell's Disease Association

 NATIONAL OSTEOPOROSIS FOUNDATION

 NATIONAL PSORIASIS FOUNDATION®

 American Autoimmune Related Diseases Association, Inc.

 Barth Syndrome Foundation

 **ZERO**  
THE END OF PROSTATE CANCER

 Pulmonary Fibrosis FOUNDATION

 prevent cancer FOUNDATION

 **ABDA**  
American Bell's Disease Association

 **ALS** ASSOCIATION

 THE MYOSITIS ASSOCIATION

 **nfed**  
Supporting you. Supporting each other.  
NATIONAL FOUNDATION FOR ECTODERMAL DYSPLASIAS

 LUNG CANCER ALLIANCE

 Solve ME/CFS Initiative

 National Blood Clot Alliance  
Stop The Clot®

 Parent Project Muscular Dystrophy  
LEADING THE FIGHT TO END DUCHENNE

 Mended Hearts

 **AMERICAN LUNG ASSOCIATION**®  
Fighting for Air

 **NORD**  
National Organization for Rare Disorders

 **Sjögren's** FOUNDATION

# We support, of course...

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- A coordinated review
- Improved communications among review teams
- Streamlined review of drugs and biologics
- A central place for anyone to look for information



# We'd like to ensure...

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- Assessments include a specific section on how patient-experience data was considered. (Transparency)
- Risk/benefit analyses include a discussion of how the patient experience influenced the Agency's decision. (Transparency)
- A user-friendly version, a nontechnical abstract or document in layman's terms, is available to patients. (Transparency, Clarity and Readability)





# 4. Patient Experience Data

**Table 5. Patient Experience Data Submitted or Considered**

<b>Data Submitted in the Application</b>		
<b>Check if submitted</b>	<b>Type of Data</b>	<b>Section Where Discussed, if Applicable</b>
<b>Clinical outcome assessment data submitted in the application</b>		
<input type="checkbox"/>	Patient-reported outcome	
<input type="checkbox"/>	Observer-reported outcome	
<input type="checkbox"/>	Clinician-reported outcome	
<input type="checkbox"/>	Performance outcome	
<b>Other patient experience data submitted in the application</b>		
<input type="checkbox"/>	Patient-focused drug development meeting summary	
<input type="checkbox"/>	Qualitative studies (e.g., individual patient/caregiver interviews, focus group interviews, expert interviews, Delphi Panel)	
<input type="checkbox"/>	Observational survey studies	
<input type="checkbox"/>	Natural history studies	
<input type="checkbox"/>	Patient preference studies	
<input type="checkbox"/>	Other: (please specify)	
<input checked="" type="checkbox"/>	<b>If no patient experience data were submitted by Applicant, indicate here.</b>	
<b>Data Considered in the Assessment (but Not Submitted by Applicant)</b>		
<b>Check if considered</b>	<b>Type of Data</b>	<b>Section Where Discussed, if Applicable</b>
<input type="checkbox"/>	Perspectives shared at patient stakeholder meeting	
<input type="checkbox"/>	Patient-focused drug development meeting summary report	
<input type="checkbox"/>	Other stakeholder meeting summary report	
<input type="checkbox"/>	Observational survey studies	
<input type="checkbox"/>	Other: (please specify)	



# Thank you!

Eleanor M. Perfetto, PhD, MS  
Interim Chief Executive Officer  
National Health Council  
[eperfetto@nhcouncil.org](mailto:eperfetto@nhcouncil.org)





# Integrated Assessment of Marketing Applications FDA Virtual Workshop

October 30, 2020

Yale



**Joseph S. Ross, MD, MHS**

Section of General Internal Medicine, School of Medicine

Center for Outcomes Research and Evaluation, Yale-New Haven Hospital

@jsross119



## **Important Scientific Uses for the Information Available in FDA Action Packages**

- **Clinical research, such as conducting systematic reviews and meta-analyses**
- **Public health research, such as characterizing selective publication and outcome reporting**
- **Regulatory science research, such as characterizing review times, evidentiary standards, patient representation and postmarket requirements**
- **Health policy research, such as impact of FDAAA registration and results reporting requirement and legislation creating special regulatory programs**
- **Health policy research, such as characterizing regulatory uncertainty or debate within FDA or between FDA and advisory committees**
- **Developing patient and clinician decision-making tools for medical product use**

## **Integrated Review Documentation: Current Advantages**

- **Clear representation of FDA's conclusions**
- **Clear overview of the major decisions made during the review process**
- **Revised 'benefit-risk assessment' is substantially more clear**
- **Appreciate 'table of patient experience data'**

## **Integrated Review Documentation: Current Disadvantages**

- **Only two exemplar integrated reviews provided as templates, so my assessment may not be fully informed**
- **However, seemingly missing was critical information from the medical review documents (or perhaps I am simply having difficulty locating this information):**
  - **‘Table of Clinical Studies’: only 2 for one, other non-searchable – all use of images should be avoided**
  - **‘Review of Relevant Individual Trials Used to Support Efficacy’: lost nuance and detail**
  - **Detailed safety information from individual trials**
  - **ClinicalTrials.gov registration numbers not used/linked**
  - **Advisory committee meeting links?**
- **Less clarity regarding disagreements within FDA, including whether postmarketing requirements should be imposed**





**NORD**<sup>®</sup>  
National Organization  
for Rare Disorders

# Integrated Assessment of Marketing Applications Virtual Workshop: NORD Perspective

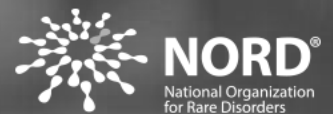
Rick White, Policy Analyst, NORD

Alone we are **rare**. Together we are **strong**.<sup>®</sup>



**NORD**, an independent nonprofit, is leading the fight to improve the lives of **rare disease patients and families**.

We do this by supporting patients and organizations, accelerating research, providing education, disseminating information and driving public policy.



[rarediseases.org](http://rarediseases.org)

# Positive Aspects

- Accessibility
  - Organization
  - Well defined sections
- Features
  - Benefit/Risk
  - Endpoints
  - Regulatory History
  - Patient Experience Information
  - FDA Insight
- Incredible potential to communicate FDA's thinking to patients about their experiences.

**Table 4. Patient Experience Data Submitted or Considered**

<b>Data Submitted in the Application</b>		
<b>Check if Submitted</b>	<b>Type of Data</b>	<b>Section Where Discussed, if Applicable</b>
<b>Clinical outcome assessment data submitted in the application</b>		
<input checked="" type="checkbox"/>	Patient-reported outcome	III.16.5: Health Outcomes Endpoints
<input type="checkbox"/>	Observer-reported outcome	
<input type="checkbox"/>	Clinician-reported outcome	
<input type="checkbox"/>	Performance outcome	
<b>Other patient experience data submitted in the application</b>		
<input type="checkbox"/>	Patient-focused drug development meeting summary	
<input type="checkbox"/>	Qualitative studies (e.g., individual patient/caregiver interviews, focus group interviews, expert interviews, Delphi Panel)	
<input type="checkbox"/>	Observational survey studies	
<input type="checkbox"/>	Natural history studies	
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<input type="checkbox"/>	Perspectives shared at patient stakeholder meeting	
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<input type="checkbox"/>	Other stakeholder meeting summary report	
<input type="checkbox"/>	Observational survey studies	
<input type="checkbox"/>	Other: (please specify)	



**NORD**  
National Organization  
for Rare Disorders

# Suggestions for Improvement

- More examples
- Increase value for patients
  - More robust PED section
  - Connect PED to regulatory decision making
  - Qualitatively assess data provided by sponsor
- Formatting
  - Hyperlinks to enable smoother navigation
- Expand Designation Info
  - Provide more information on factors related to designation





Thank you.



**NORD**<sup>®</sup>  
National Organization  
for Rare Disorders

Alone we are rare. Together we are strong.®

[rarediseases.org](http://rarediseases.org)

**Q & A**



# External Stakeholder Perspectives: Open Public Comments

**12:00 PM – 12:30 PM**

# Integrated Assessment of Marketing Applications Virtual Workshop

October 30, 2020

*CPC Representative:*

*Jason Lipman, Director, Global Regulatory Affairs, Devices and Combination Products, Sanofi*



# CPC Priorities

- **Integrated review memo program addresses critical combination product and device constituent part review topics**
  - Clinical data
  - Human factors studies
  - Design verification/validation activities
  - Bridging-related information, etc.
- **Continued access to all valued and currently publicly available documentation following a drug/biologic approval, including, but not limited to:**
  - Discipline-specific review memos
  - Pre-submission correspondence
  - Inquiries and responses
  - Inspection report summaries or decisions to defer inspections

# Advantages of Current Detailed Review Memos

- **Clarifies current FDA expectations for required content and testing as applied to product-specific cases – provides details that go beyond issued FDA Guidance documents and International Standards**
- **Allows Industry to provide complete submissions that will better address known FDA concerns for specific types of delivery devices**
- **Current review memo structure and traditional organization facilitates location of information [e.g., “Other Reviews” for CDRH and Division of Medication Error and Prevention Analysis (DMEPA) consulting reviews]**

# Advantages of Proposed Interdisciplinary Assessment

- **Eliminates duplication of content**
- **Makes location of information easier (e.g., benefit risk assessments)**

# Areas for Improvement

- **Providing review memos for all supplements for new/modified delivery devices**
- **Specific section for CP and device-related content including:**
  - **Summaries of CP-related pre-submission correspondence**
  - **CP-related Information Requests**
    - **reason for the request**
    - **who originated the request**
    - **sponsor response, consulting reviewer feedback and resolution**
  - **Summaries of CP bridging/leveraging along with determination of (non)-acceptability**
  - **Summaries of CP clinical requirements/submitted clinical data or why not necessary**
    - **Incl. PK comparability studies, real-life patient handling studies**
  - **Summaries of HF requirements/submitted HF data or why not necessary**
  - **Summaries of delivery device requirements, EPRs, Dver/Dval activities, CDRH and DMEPA review checklists, release testing, quality systems, manufacturing, labeling requirements, etc.**



**Thank you**



# FDA Virtual Workshop: Integrated Review Documentation

Emily Huddle  
Senior Manager Global Regulatory Policy & Intelligence  
Gilead Sciences

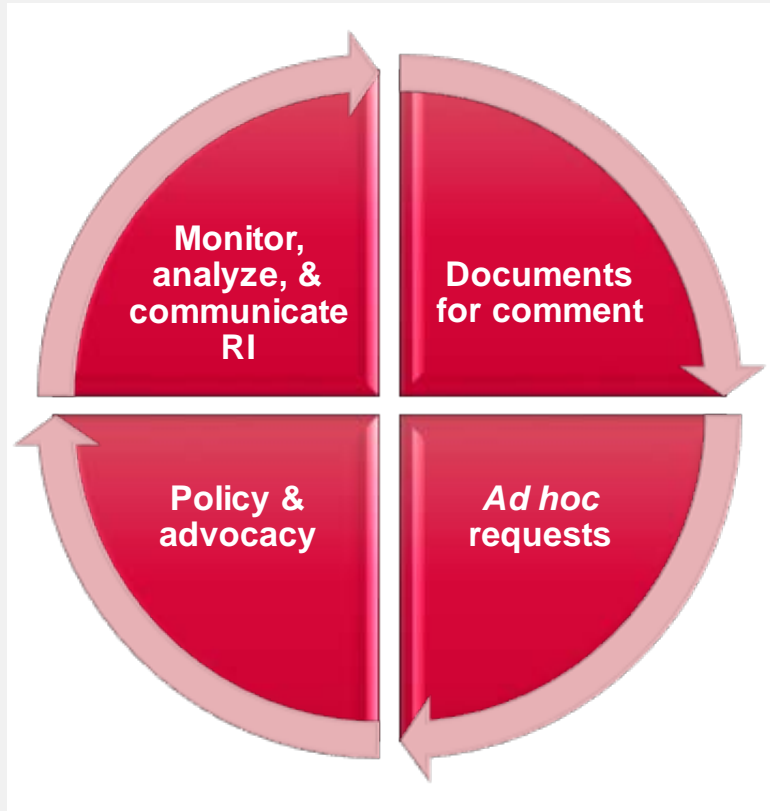


# FDA Topics/Questions

1. We are interested in preserving for stakeholders what they find most useful in FDA reviews.
  - a) Comparing the integrated Review to previous reviews, is there any information you are having difficulty locating?
  - b) Are you able to use the Integrated Review for the same purpose that you used previous reviews? If not, please provide specific examples.
2. We are interested in specific recommendations about any areas of the Integrated Review documentation of the Integrated Assessment that can be improved to meet the needs of stakeholders.
3. We are interested in stakeholders' views regarding the advantages and disadvantages of an interdisciplinary assessment presentation of key review issues and resulting integration of the assessments of multiple disciplines into a single Integrated Review document.



# Regulatory Intelligence



*“The act of gathering and analyzing publicly available regulatory information. This includes communicating the implications of that information, and monitoring the current environment to shape future regulations, guidance, policy, and legislation.”*

-US DIA RI WG



# Regulatory precedent



Drive planning  
of future  
strategies



Avoidance of  
past failures

**Drugs@FDA: FDA-Approved Drugs**

f SHARE

t TWEET

in LINKEDIN

Pin PIN IT

✉ EMAIL

🖨 PRINT

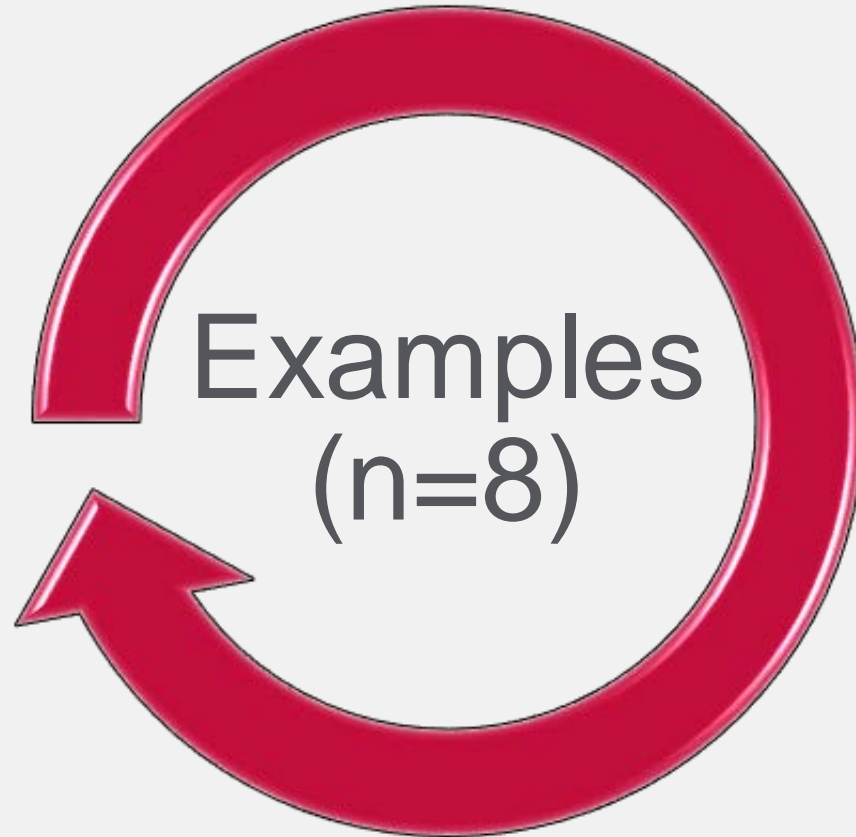


# Summary Basis of Approvals



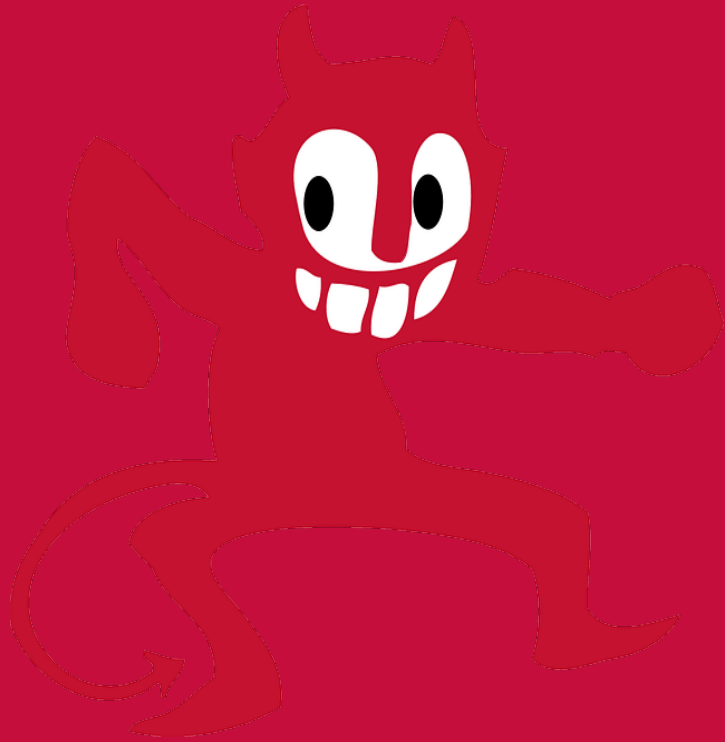


# Integrated Review Examples To Date



- Original (n=6);  
Supplements (n=2)
- Standard (n=2);  
Priority (n=6)
- Antiviral (n=2);  
Antimicrobial (n=1);  
Diagnostic (n=1);  
Metabolic (n=3); Renal  
(n=1)
- Fixed-dose  
combination (n=2)



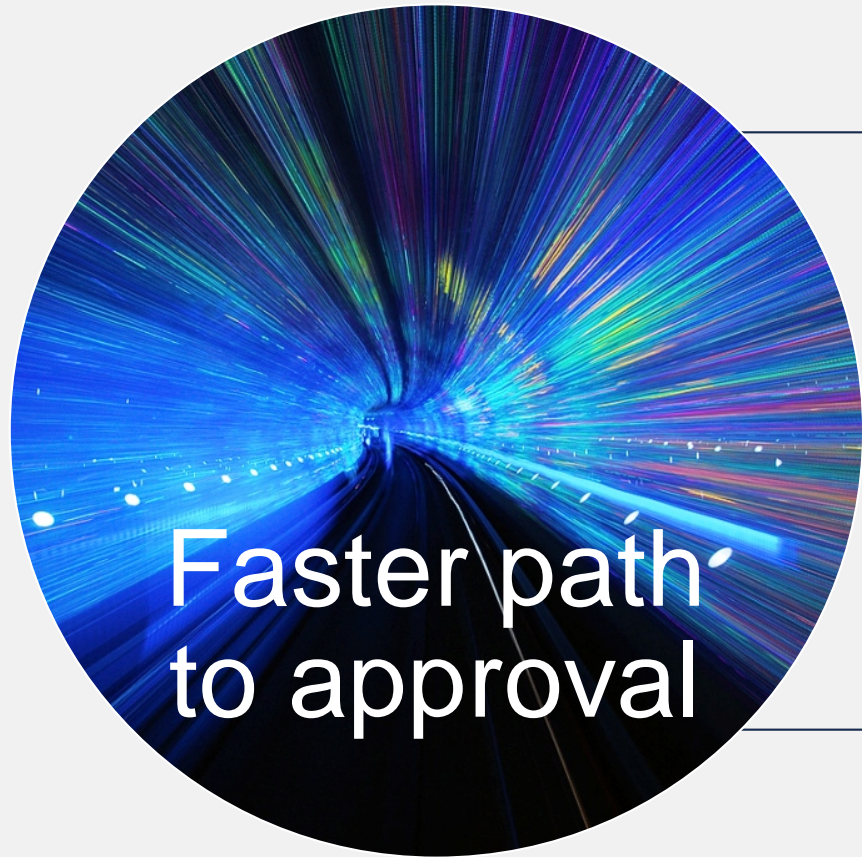


# RWE- FDA did not accept use

Application No./ Product/Indication	FDA Center/TA	Designation(s)	Category/Summary
<p>████████████████████ Adult patients with locally advanced or metastatic urothelial carcinoma with FGFR2/3 mutations</p>	<p>CDER; Oncology products</p>	<p>Breakthrough therapy; Priority; Accelerated</p>	<p>As part of the submission, the applicant included RWD from the Flatiron-Foundation Medicine, Inc. database, which was meant to serve as a baseline for comparison of OS. According to the statistical review, “DEPI [did] not consider the study sufficiently valid for supporting regulatory decisions pertaining to drug effectiveness [since] both internal and external validity were threatened by methodological issues.”</p>
<p>████████████████████ relapsed or refractory multiple myeloma AND on June 22, 2020, accelerated approval for adult patients with relapsed or refractory diffuse large B-cell lymphoma</p>	<p>CDER; Hematology product</p>	<p>Fast track; Priority; accelerated</p>	<p>According to DEPI’s statistical review, “the evidence generated from the RWD analysis is not adequate to provide context or comparison for the overall survival observed in the [clinical trial] patients [due to] the lack of comparability between the [clinical trial] and [real world] treatment groups.” DEPI highlighted post-hoc analysis, selection bias (e.g., differential eligibility criteria for clinical trial vs. external populations, immortal time bias), confounding bias, data missingness, and limited statistical power among the shortcomings of the real world study. The resulting FDA label of excluded OS outcomes, and only referenced improvements in ORR.</p>



# Transparency = Predictability



Fewer meeting requests



Current trends/insights into agency thinking



Avoid repeating past mistakes







# THANK YOU

Emily Huddle  
Senior Manager  
Global Regulatory Policy & Intelligence  
Gilead Sciences  
[emily.huddle@gilead.com](mailto:emily.huddle@gilead.com)

NEW DRUGS REGULATORY PROGRAM MODERNIZATION:

# IMPLEMENTATION OF THE INTEGRATED ASSESSMENT OF MARKETING APPLICATIONS

A VIRTUAL PUBLIC WORKSHOP

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*Please remember to rejoin us at 1:30  
for the FDA perspective panel*