

**Sotorasib for the Treatment of Adult Patients with
KRAS p.G12C-mutated Locally Advanced or Metastatic
Non-Small Cell Lung Cancer (NSCLC)**

Oncologic Drugs Advisory Committee

October 5, 2023



Introduction

Jackie Kline, PhD

Vice President, Global Regulatory Affairs
Amgen Inc.



Confirmatory Study CodeBreakK 200

Demonstrates Clinical Benefit of Sotorasib

ACCELERATED APPROVAL

CodeBreak 100 PHASE 2

Global,
single-arm trial
in patients with *KRAS p.G12C*-mutated
locally advanced or metastatic NSCLC
who have received
at least 1 prior systemic therapy

Sotorasib
N=126

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CONFIRMATORY STUDY

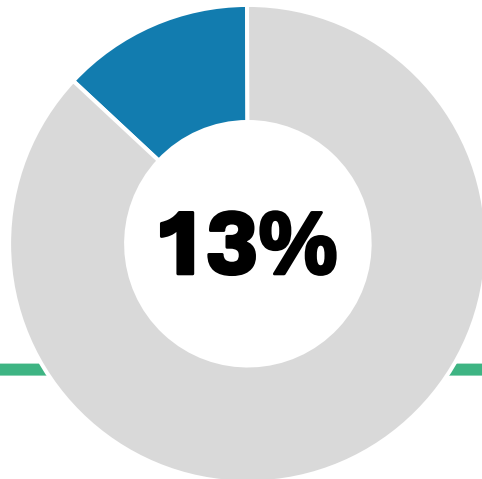
CodeBreakK 200 PHASE 3

Global,
randomized controlled trial
in patients with *KRAS p.G12C*-mutated
locally advanced or metastatic NSCLC
who have received
at least 1 prior systemic therapy

Sotorasib vs Docetaxel
N=345

Sotorasib Selectively Inhibits KRAS^{G12C} Mutant Protein

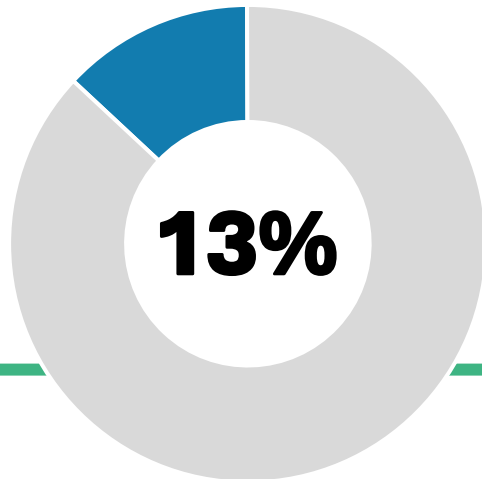
KRAS p.G12C Mutation



1 in 8 patients (13%)
with lung
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have a *KRAS p.G12C*
mutation¹

Sotorasib Selectively Inhibits KRAS^{G12C} Mutant Protein

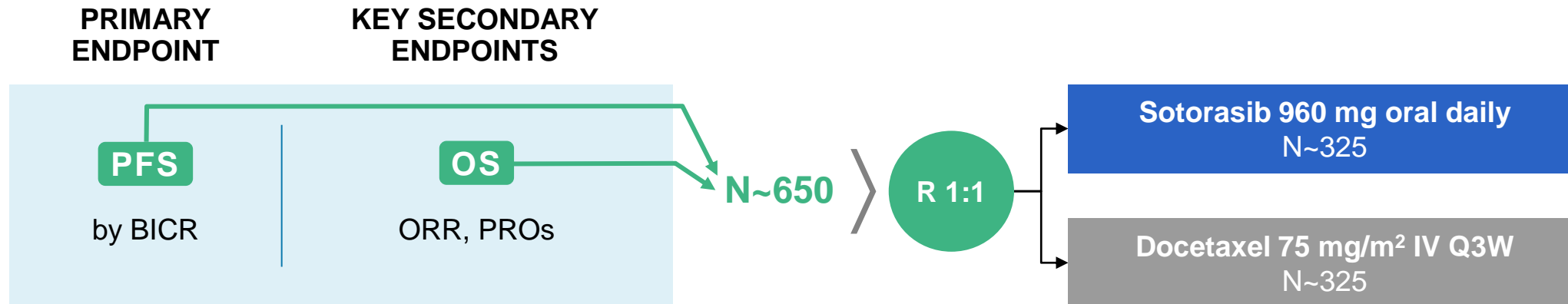
KRAS p.G12C Mutation



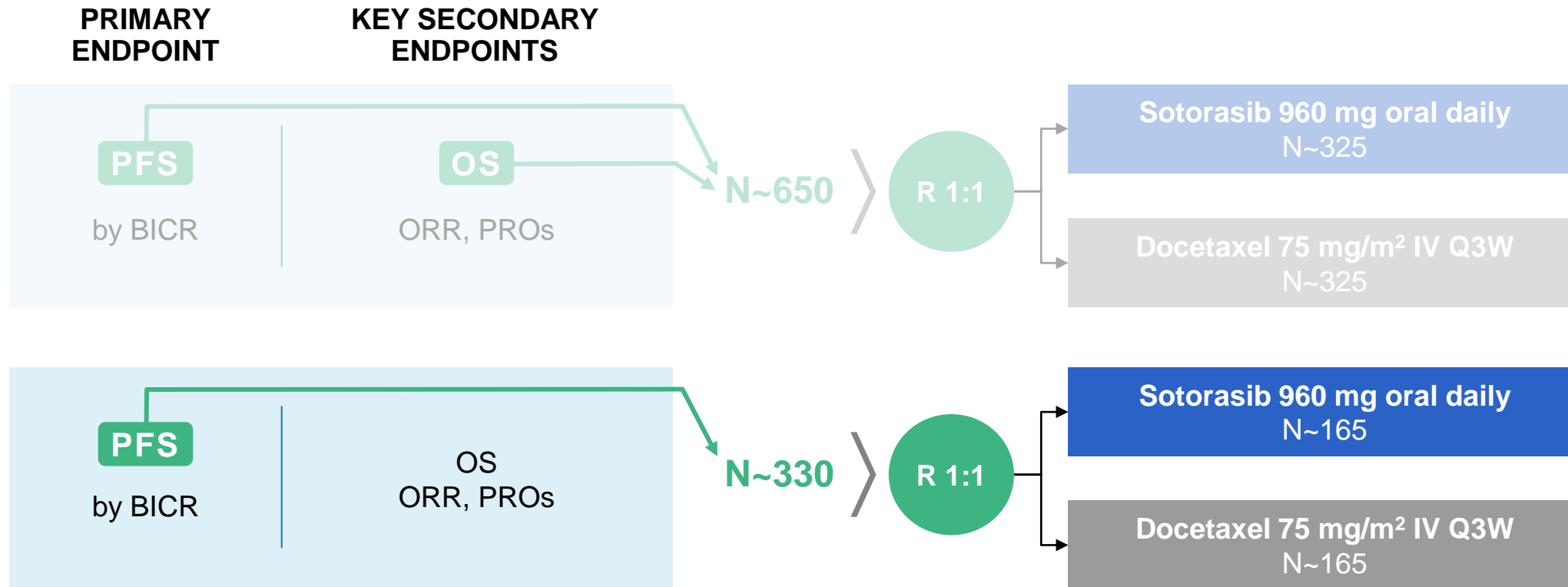
1 in 8 patients (13%)
with lung
adenocarcinomas
have a *KRAS p.G12C*
mutation¹

- *KRAS p.G12C* is a single point driver mutation
- Sotorasib covalently binds to mutated KRAS^{G12C} protein
 - Locks protein in an inactive state
 - Inhibits tumor cell growth

Design of CodeBreakK 200 Evolved in Response to Emerging Data from CodeBreakK 100

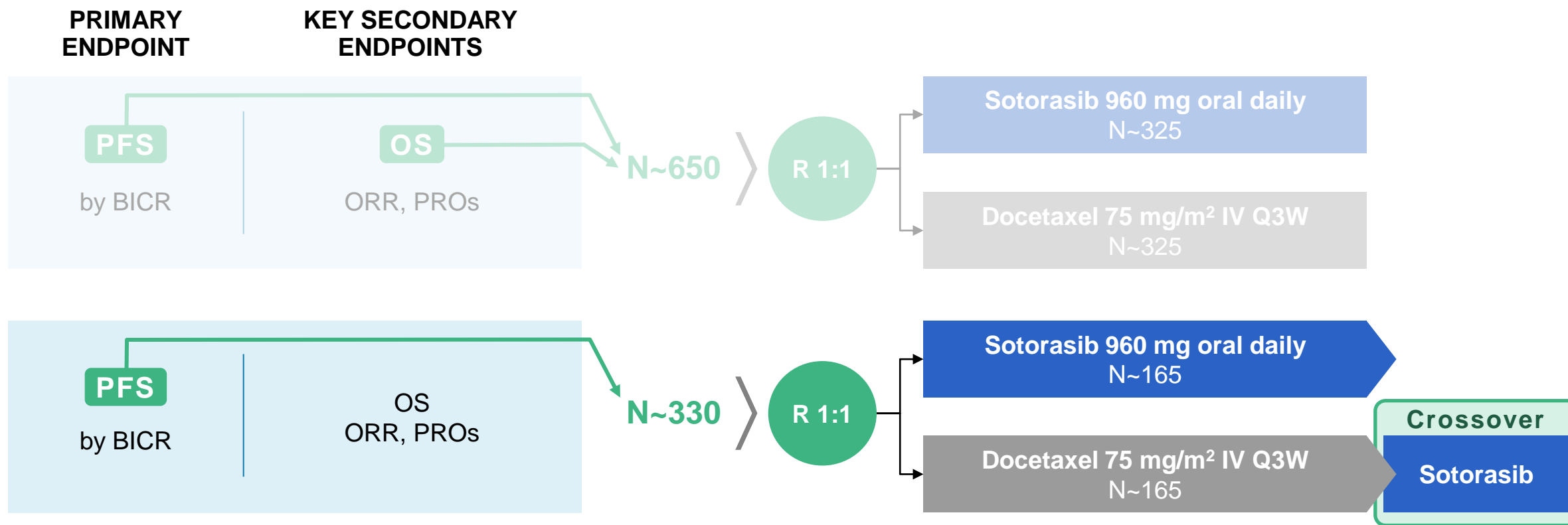


Design of CodeBreakK 200 Evolved in Response to Emerging Data from CodeBreakK 100



Amendment maintained adequate power for PFS but not OS

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What You Will Hear Today



Efficacy

Bhakti Mehta, MD, MPH

Sotorasib improved progression-free survival over docetaxel and resulted in rapid and durable tumor response

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Safety

Osa Eisele, MD, MPH

Sotorasib exhibits a differentiated safety profile as compared to docetaxel
Risks are well characterized and manageable

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Reliability

Gregory Friberg, MD

CodeBreaK 200 can be reliably interpreted to confirm the clinical benefit of sotorasib

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CodeBreaK 200 can be reliably interpreted to confirm the clinical benefit of sotorasib



Clinical Perspective

Melissa Johnson, MD

Sotorasib provides an important targeted treatment option for patients with NSCLC who have received prior systemic therapy

Additional Subject Matter Expert

Gary Koch, PhD

Professor, Department of Biostatistics; Director, Biometric Consulting Laboratory
University of North Carolina at Chapel Hill

Efficacy

Bhakti Mehta, MD, MPH

Executive Medical Director, Global Clinical Development
Amgen Inc.



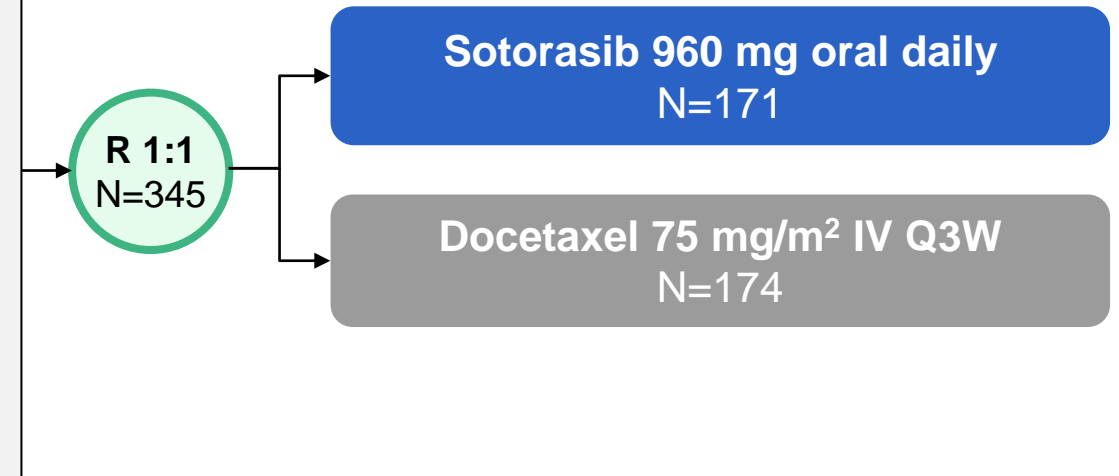
CodeBreakK 200 Phase 3 Study Design

Key Eligibility Criteria

- *KRAS p.G12C* mutation
- Advanced NSCLC
- **≥1 prior treatment including platinum-based chemotherapy and checkpoint inhibitor**
- No active brain metastases
- ECOG ≤1

Stratification Factors

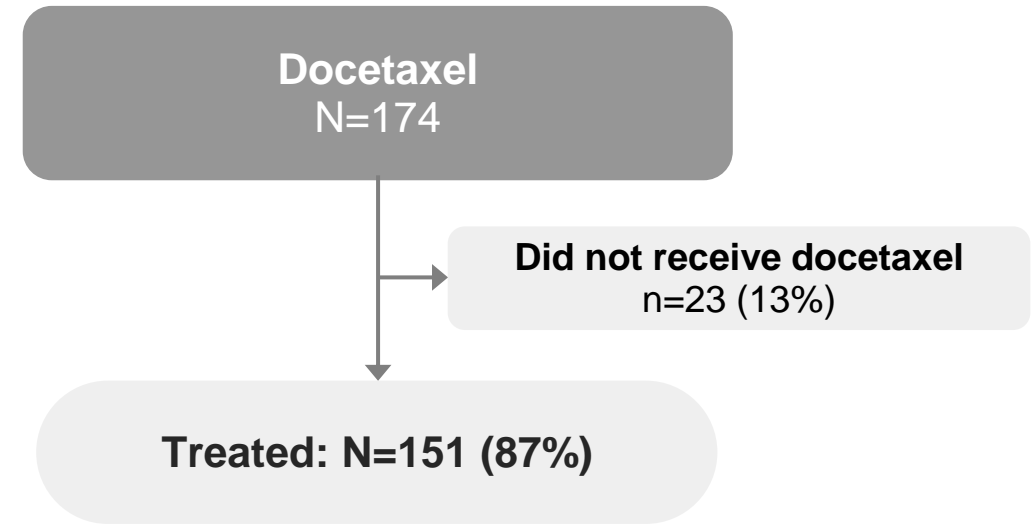
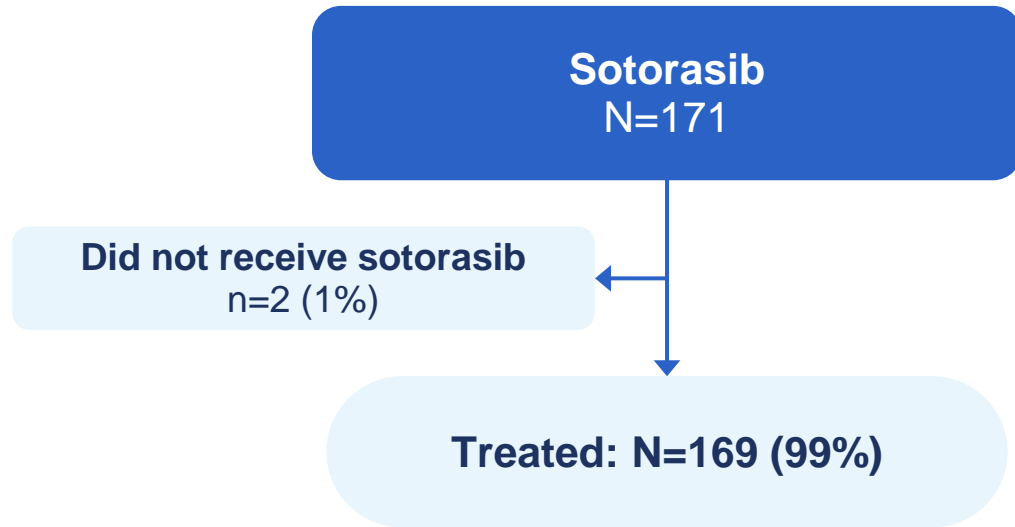
- Prior lines of therapy (1 vs 2 vs >2)
- Race (Asian vs non-Asian)
- History of CNS involvement (yes vs no)



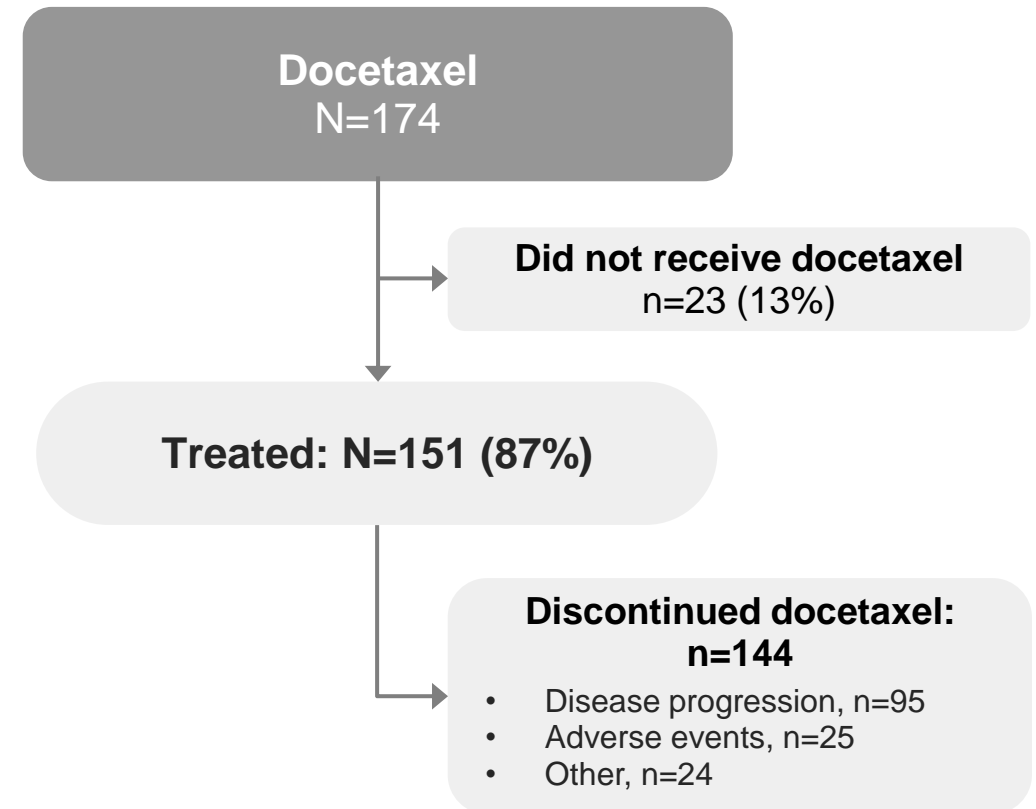
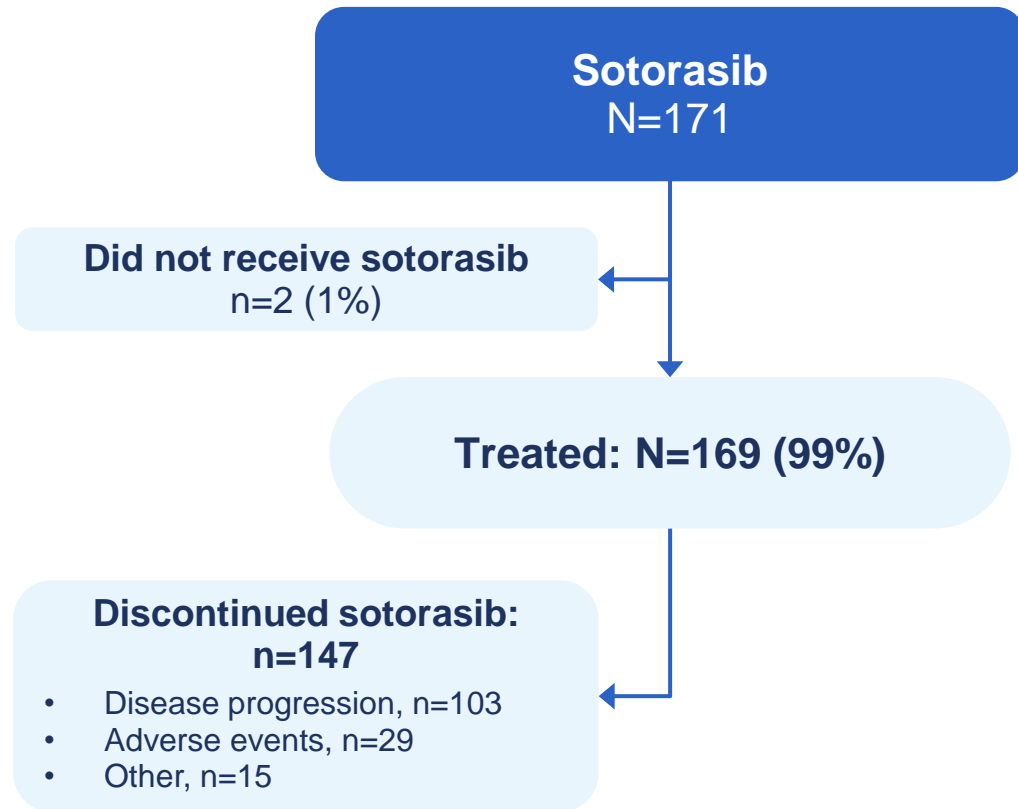
Primary Endpoint: PFS by Blinded Independent Central Review

Secondary Endpoints: Efficacy (OS, ORR, DOR, TTR, DCR), PROs, safety/tolerability

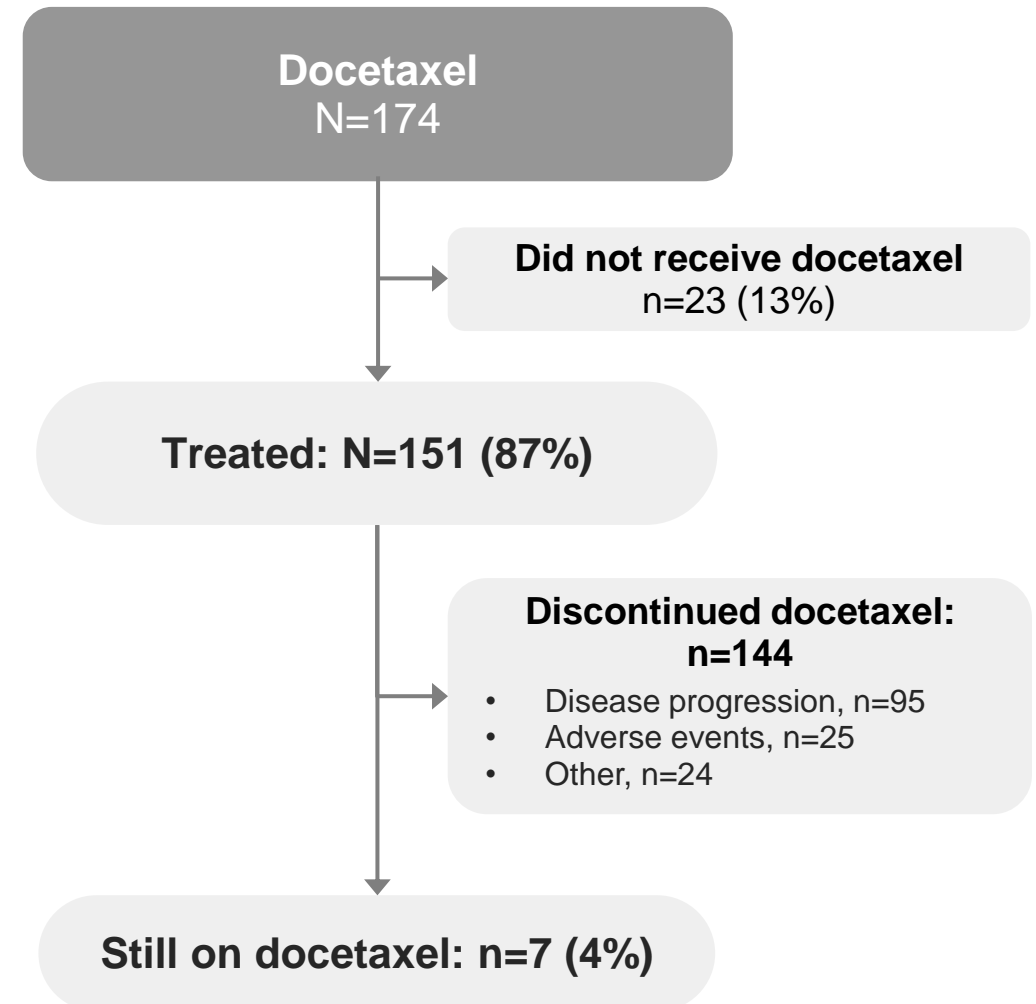
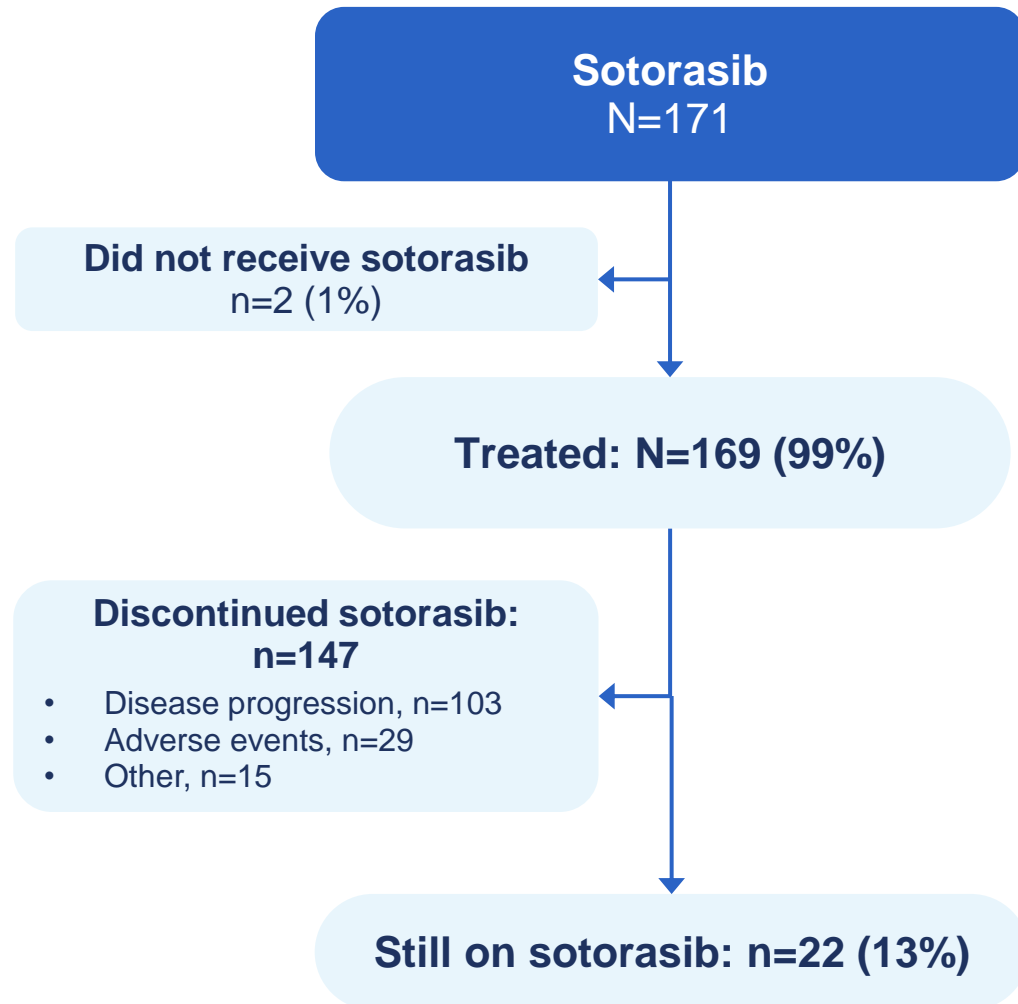
Patient Disposition



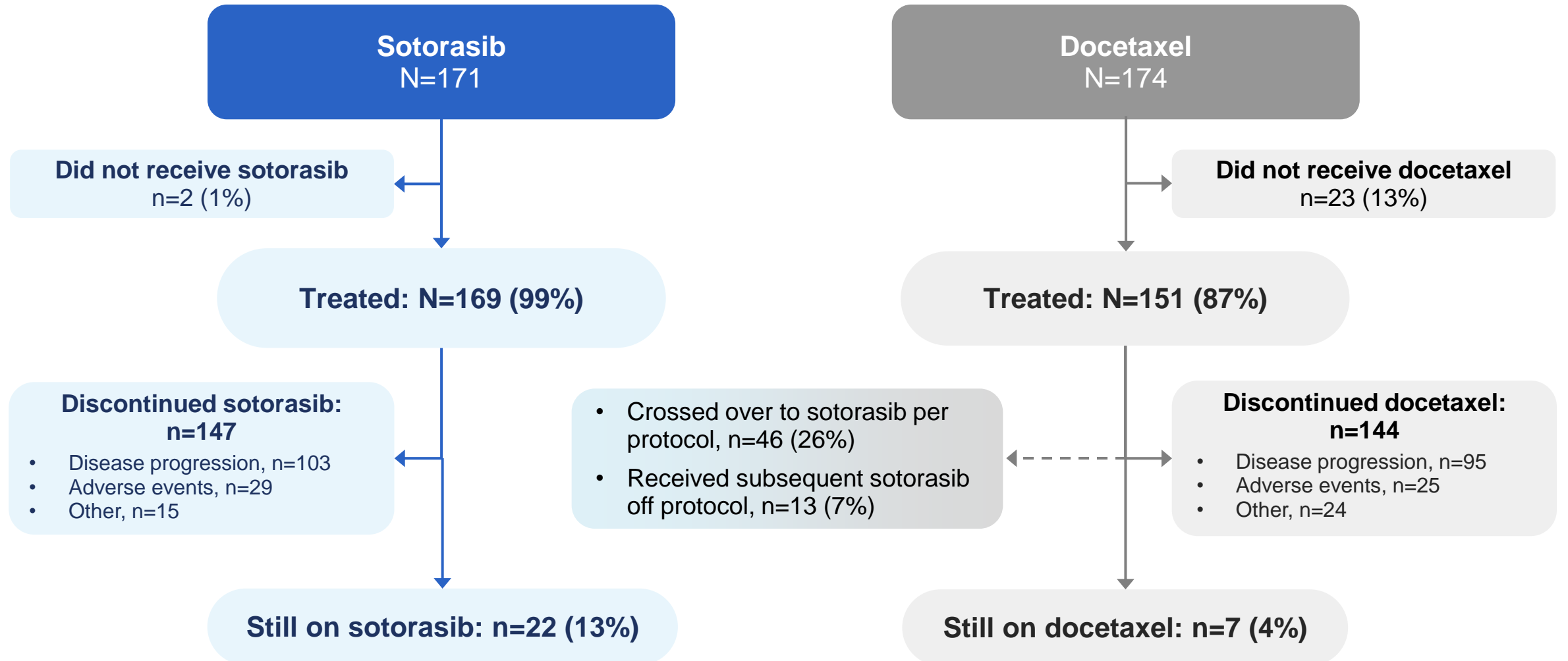
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Patient Disposition



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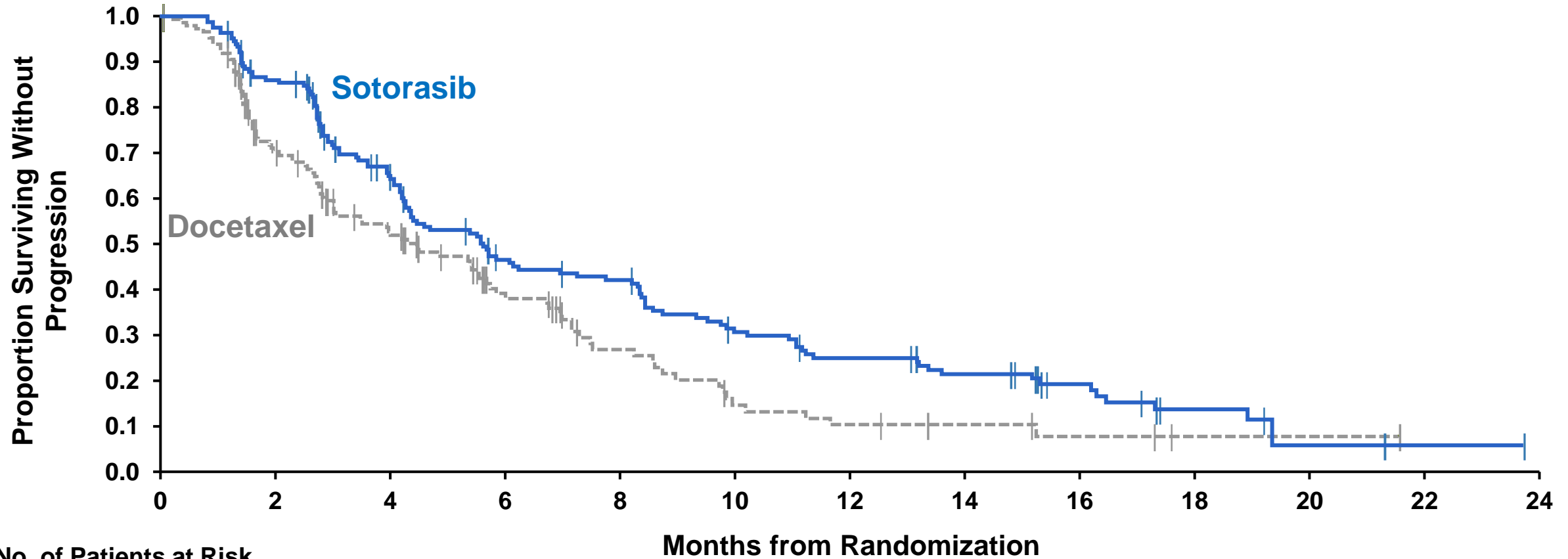


Baseline Characteristics: Well Balanced

	Sotorasib 960 mg Oral Daily N=171	Docetaxel 75 mg/m² IV Q3W N=174
Age, years, median (range)	64 (32, 88)	64 (35, 87)
North America/Europe/Other, %	12 / 74 / 15	13 / 72 / 15
Smoking history (current or former), n (%)	166 (97)	166 (95)
ECOG performance status 1, n (%)	112 (65)	115 (66)
History of CNS involvement, n (%)	58 (34)	60 (34)
Liver metastasis, n (%)	30 (18)	35 (20)
Prior lines of therapy, n (%)		
1	77 (45)	78 (45)
2	65 (38)	69 (40)
>2	29 (17)	27 (16)

Primary Endpoint Met – PFS by BICR

Sotorasib Reduces Risk of Progression or Death by 34%



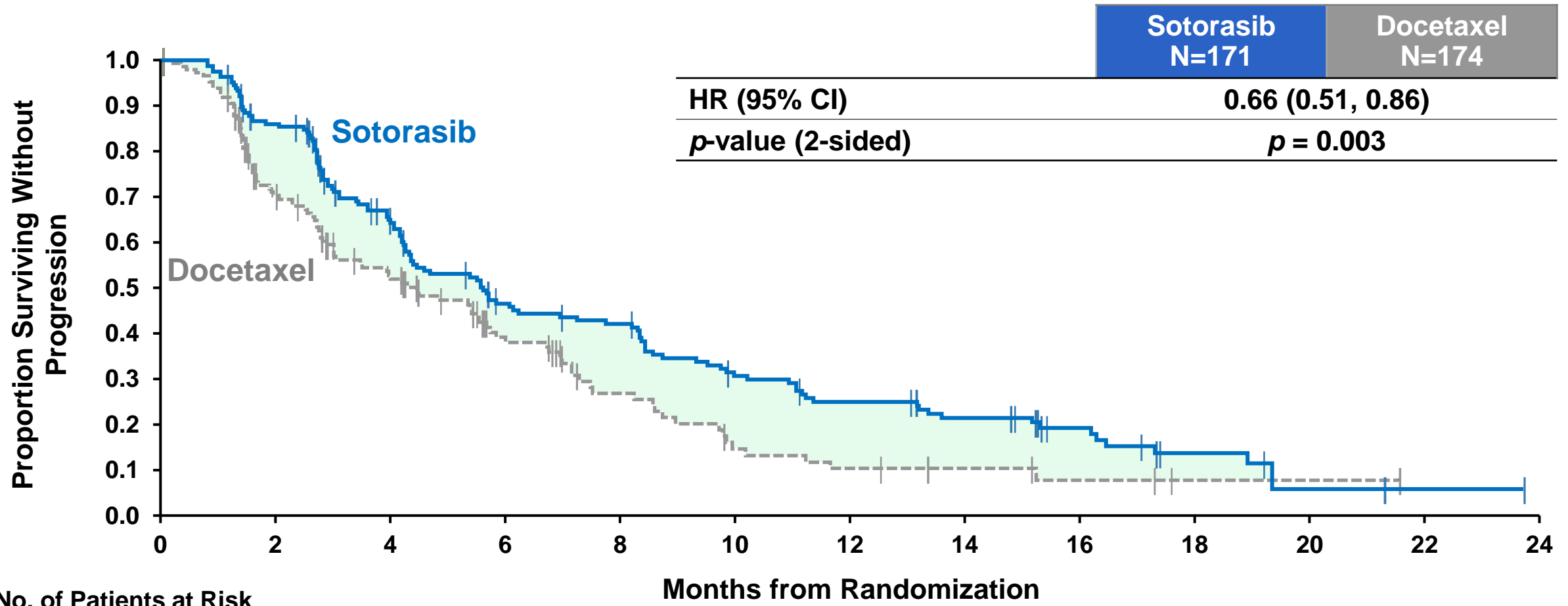
No. of Patients at Risk

Sotorasib	171	139	93	63	56	38	30	24	14	6	2	1	0
Docetaxel	174	93	62	36	20	10	7	5	3	1	1	0	

Median study follow-up: 17.7 months

Primary Endpoint Met – PFS by BICR

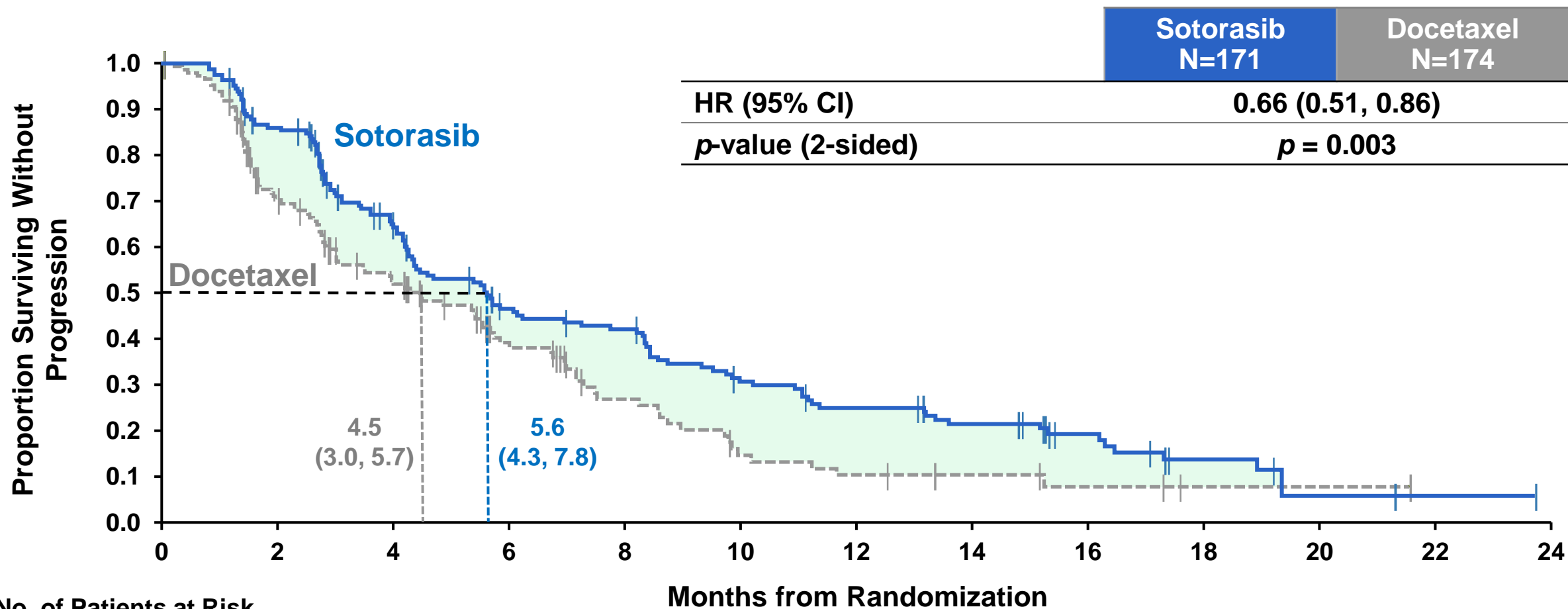
Sotorasib Reduces Risk of Progression or Death by 34%



No. of Patients at Risk		Months from Randomization												
	0	2	4	6	8	10	12	14	16	18	20	22	24	
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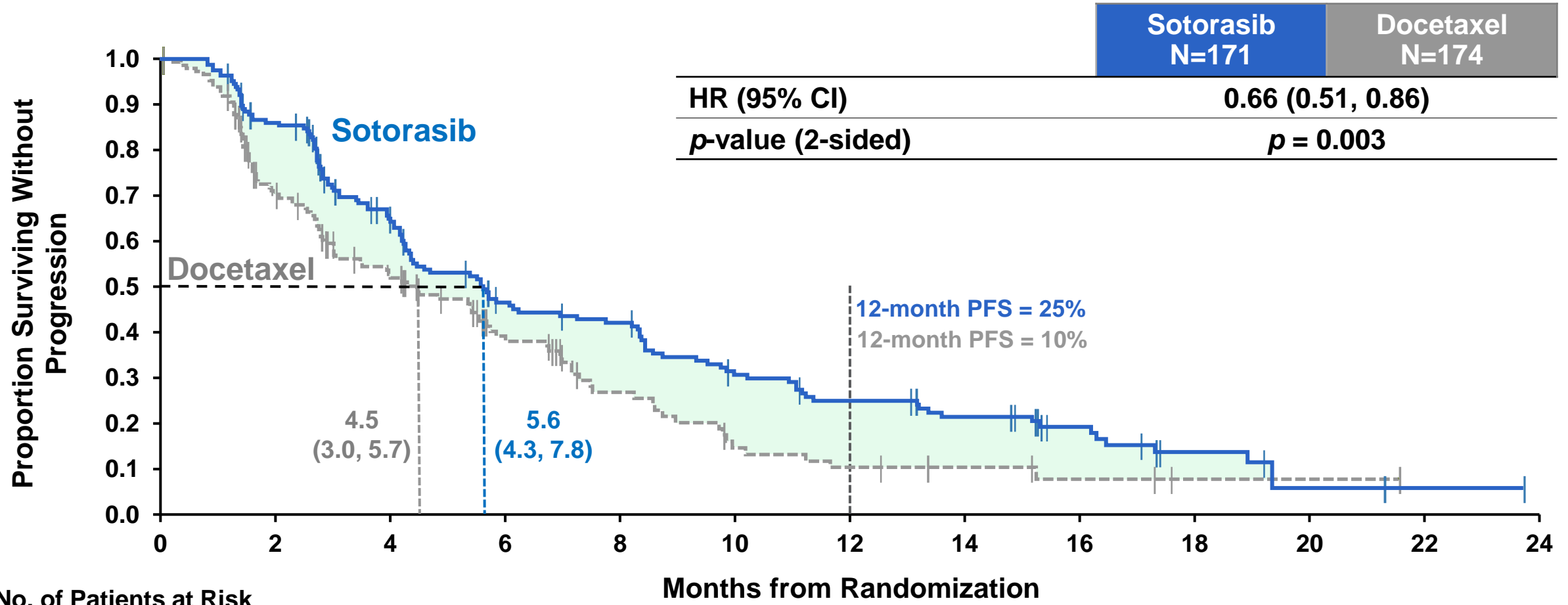
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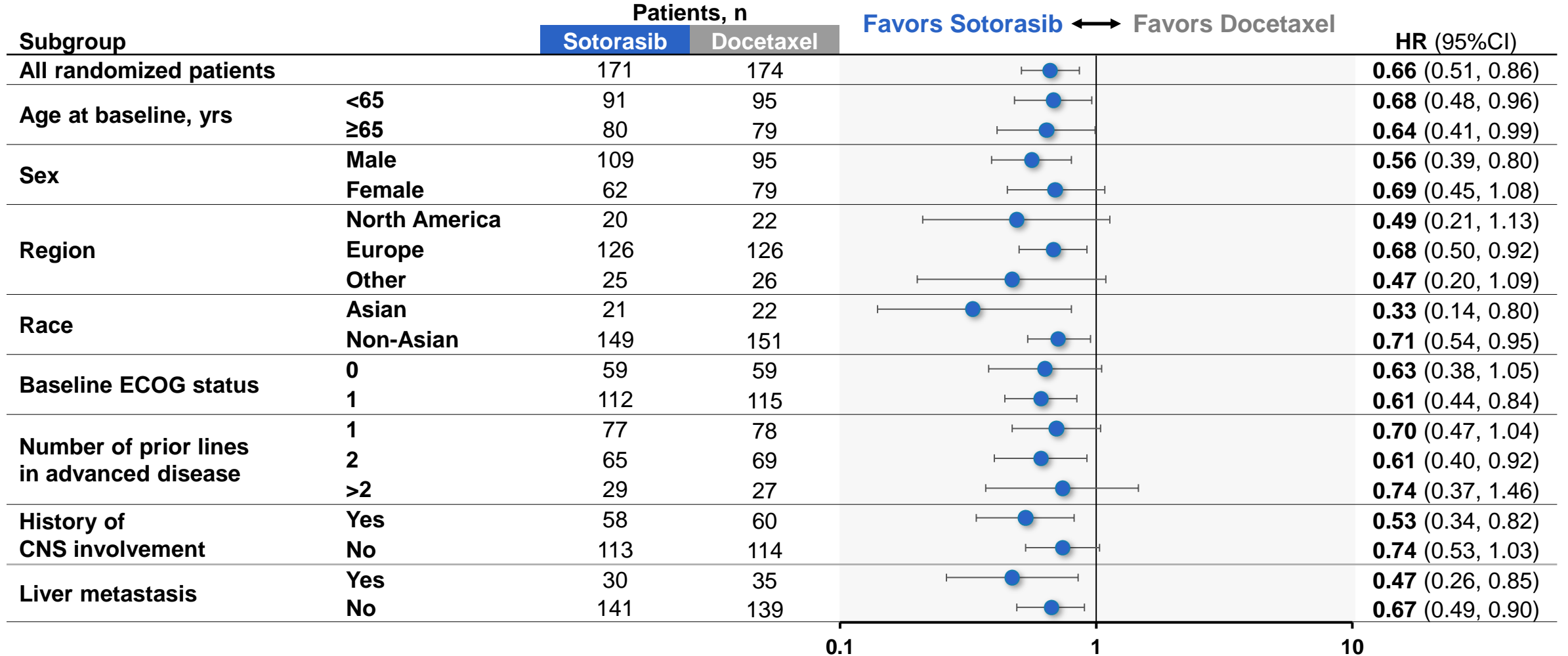


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PFS Primary Analyses

PFS Results Favor Sotorasib Across All Key Subgroups



Pre-Specified PFS Sensitivity Analysis Showed Consistent Treatment Effect

Anticipated Bias	Pre-Specified Sensitivity Analysis	PFS Results HR (95% CI)
Investigator assessment	PFS per investigator assessment	0.65 (0.50, 0.82)

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BICR PFS censored due to withdrawal of consent or loss to follow-up (LTFU)	Treating LTFU/Withdrawal of consent as a PFS event	0.65 (0.50, 0.85)

Pre-Specified PFS Sensitivity Analysis Showed Consistent Treatment Effect

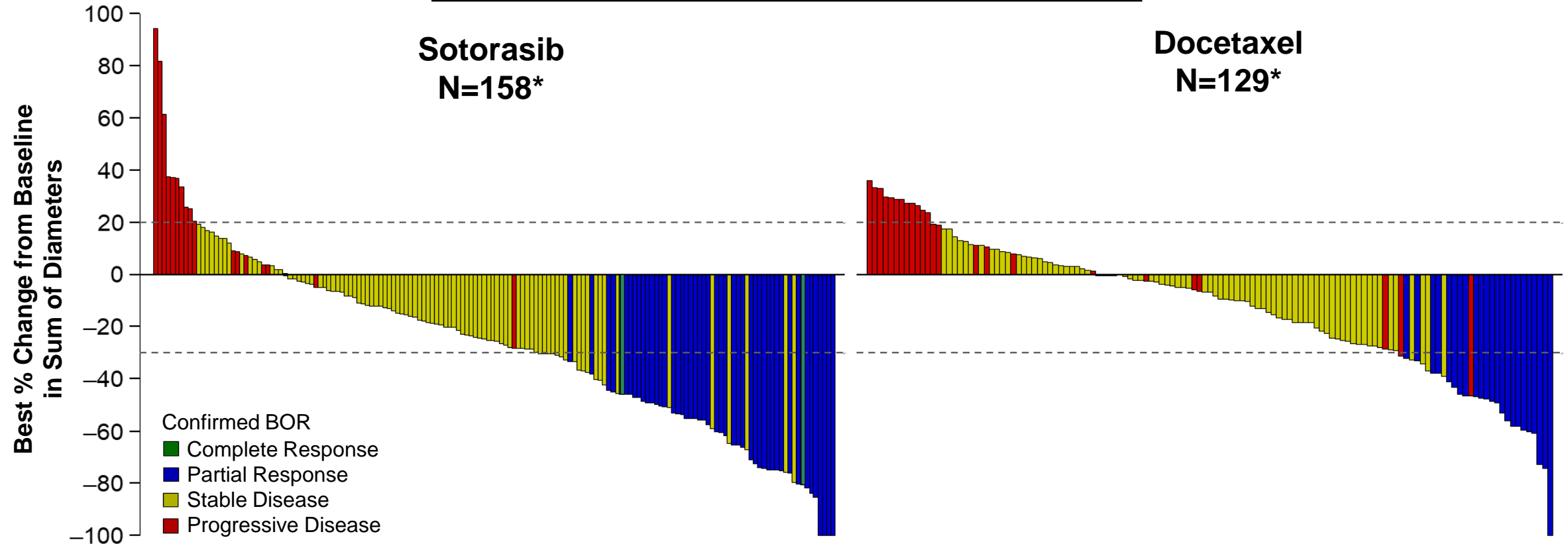
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BICR PFS censored due to withdrawal of consent or loss to follow-up (LTFU)	Treating LTFU/Withdrawal of consent as a PFS event	0.65 (0.50, 0.85)
Actual assessment date is different than scheduled assessment date	Analysis based on scheduled assessment dates instead of actual assessment dates	0.66 (0.51, 0.86)

Sotorasib Achieved Significantly Higher Objective Response Rate vs. Docetaxel (p<0.001)

% (95% CI)	Sotorasib	Docetaxel
ORR	28 (22, 35)	13 (9, 19)

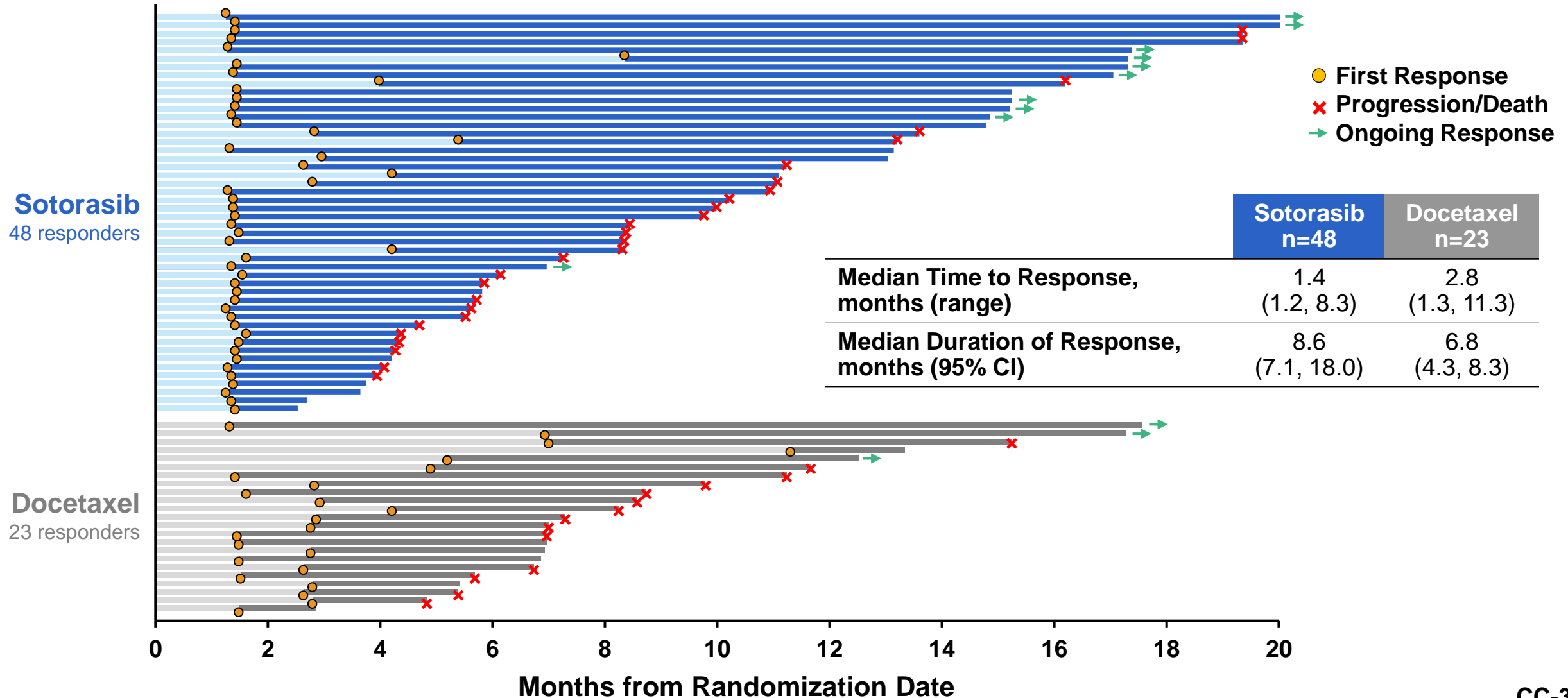
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% (95% CI)	Sotorasib	Docetaxel
ORR	28 (22, 35)	13 (9, 19)
DCR	83 (76, 88)	60 (53, 68)



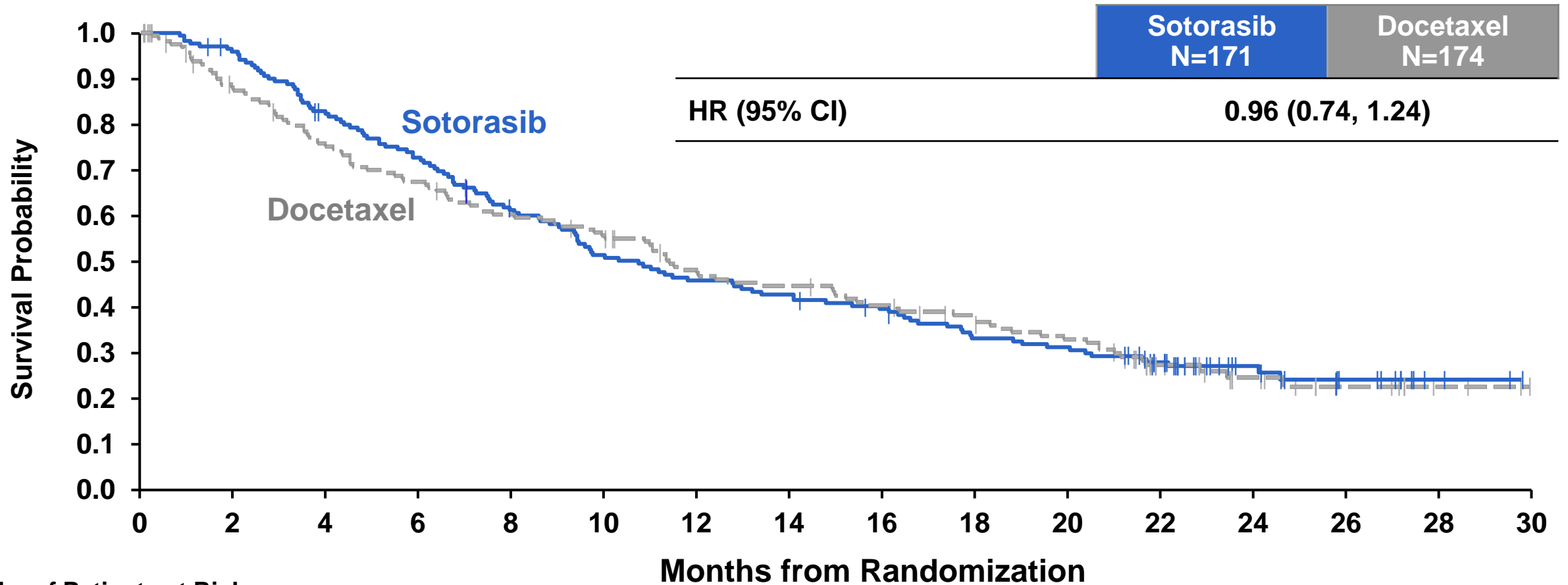
*Patients without baseline target lesions or post-baseline percent changes, or with BOR of NE are not shown.

Sotorasib Induced Faster and Longer Lasting Responses in More Patients Than Docetaxel



Sotorasib and Docetaxel Overall Survival Overlap

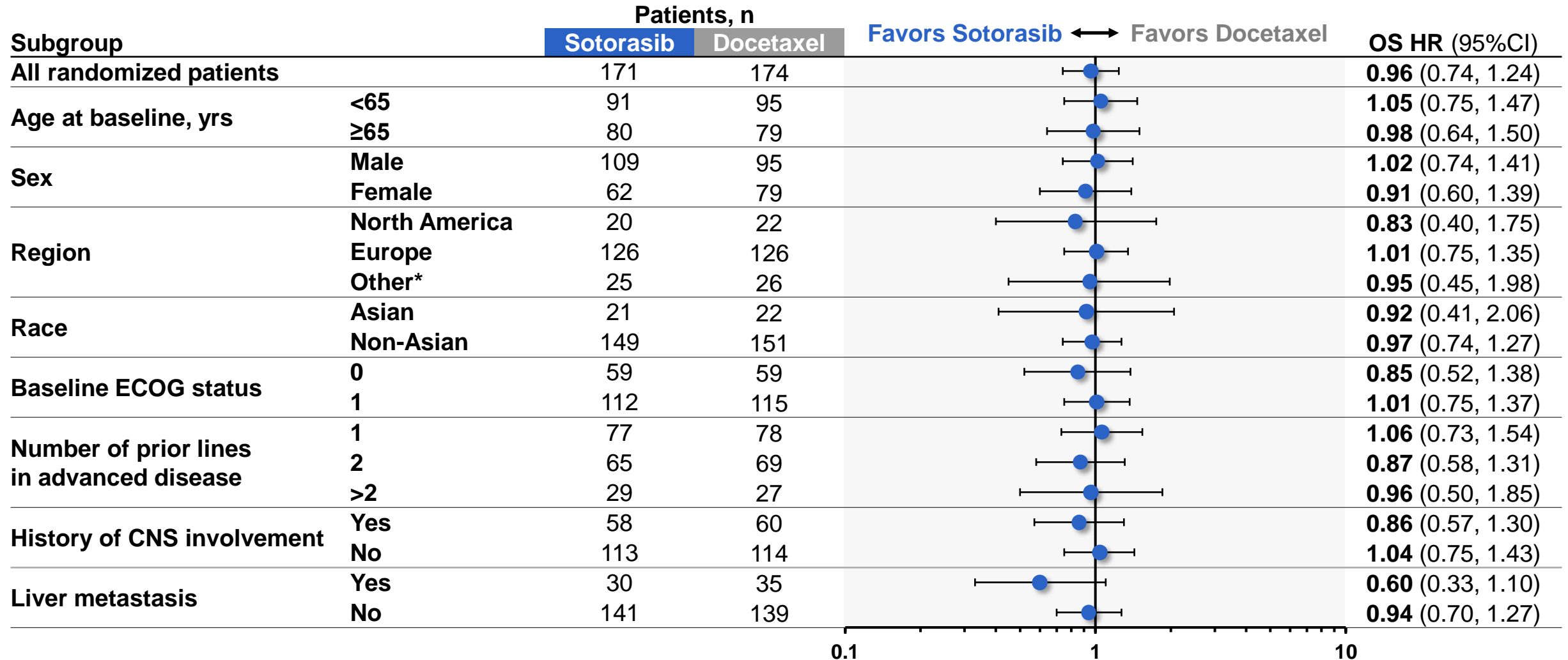
Data Cut-off: 18-JAN-2023



No. of Patients at Risk

Sotorasib	171	162	137	120	98	82	74	67	62	51	47	32	17	11	2	0
Docetaxel	174	136	116	104	91	82	67	64	57	48	43	23	13	8	3	0

Overall Survival by Subgroup



Data cutoff: 18 Jan 2023

*Other includes South America, Asia, and Australia

PRO Measures and Analyses in CodeBreak 200

Overview

PRO Measures
EORTC QLQ-C30
EORTC QLQ-LC13
EQ-5D-5L/VAS
GP5 of FACT-G
PGIS
PGIC
PRO-CTCAE
BPI-SF

PRO Measures and Analyses in CodeBreakK 200

Overview

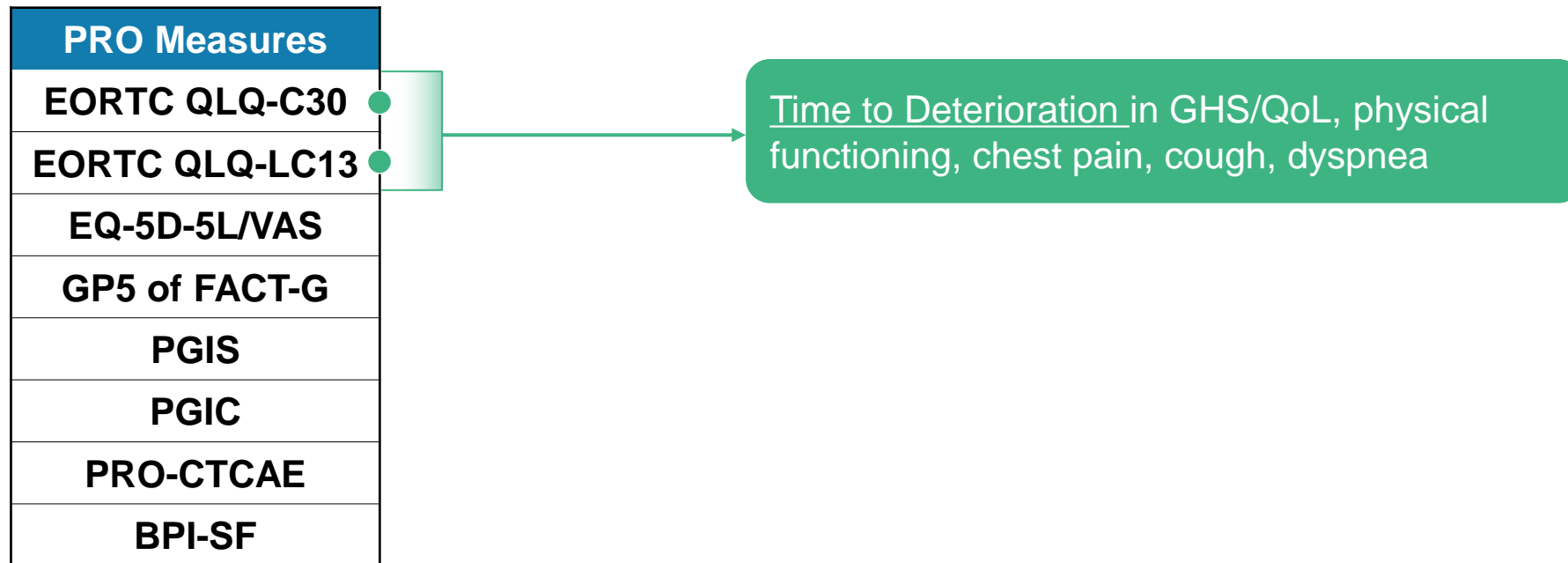
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Analysis Endpoints

- **Change from baseline to Week 12**
- **Time to deterioration**
- **Descriptive statistics** (mean scores / % of patients over time, CDF)

PRO Measures and Analyses in CodeBreakK 200

Overview

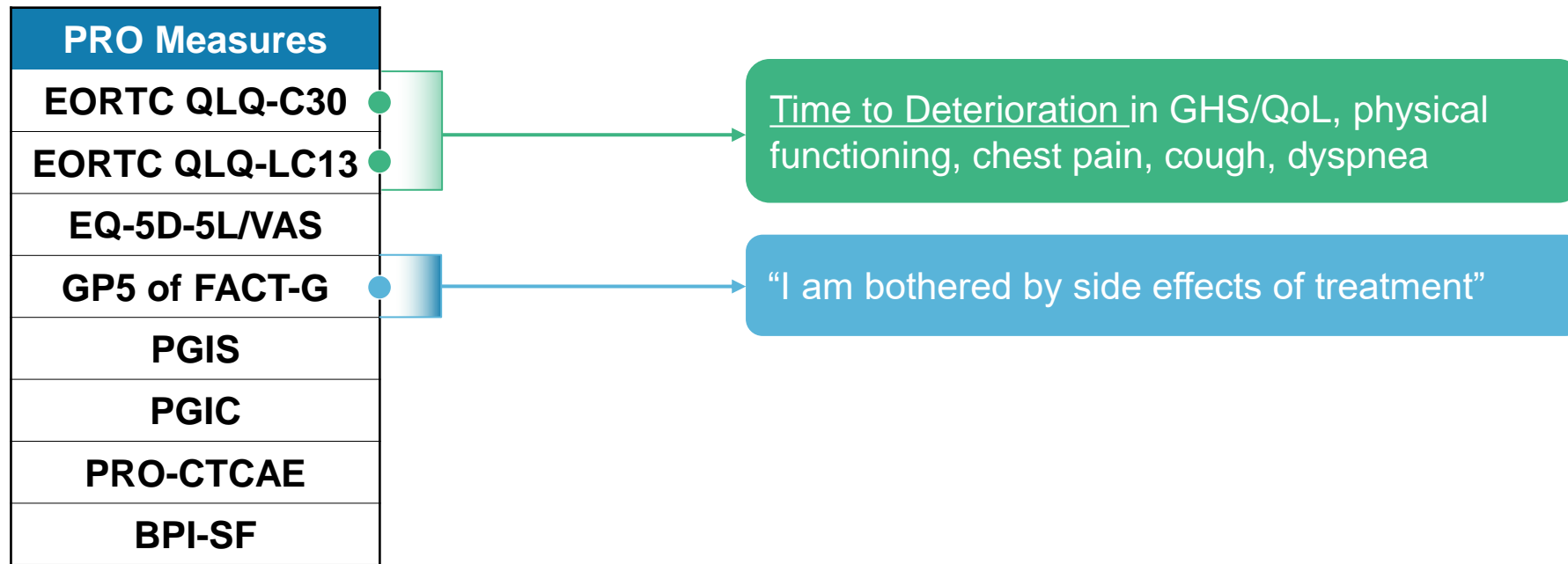


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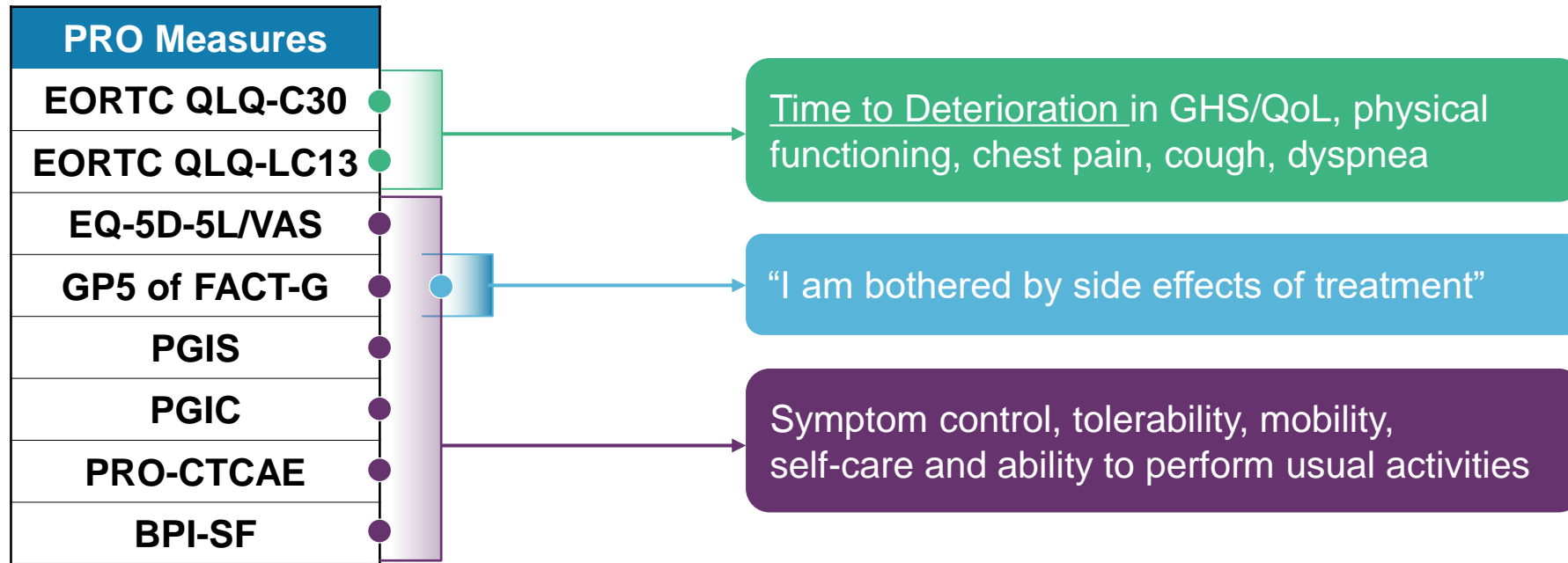


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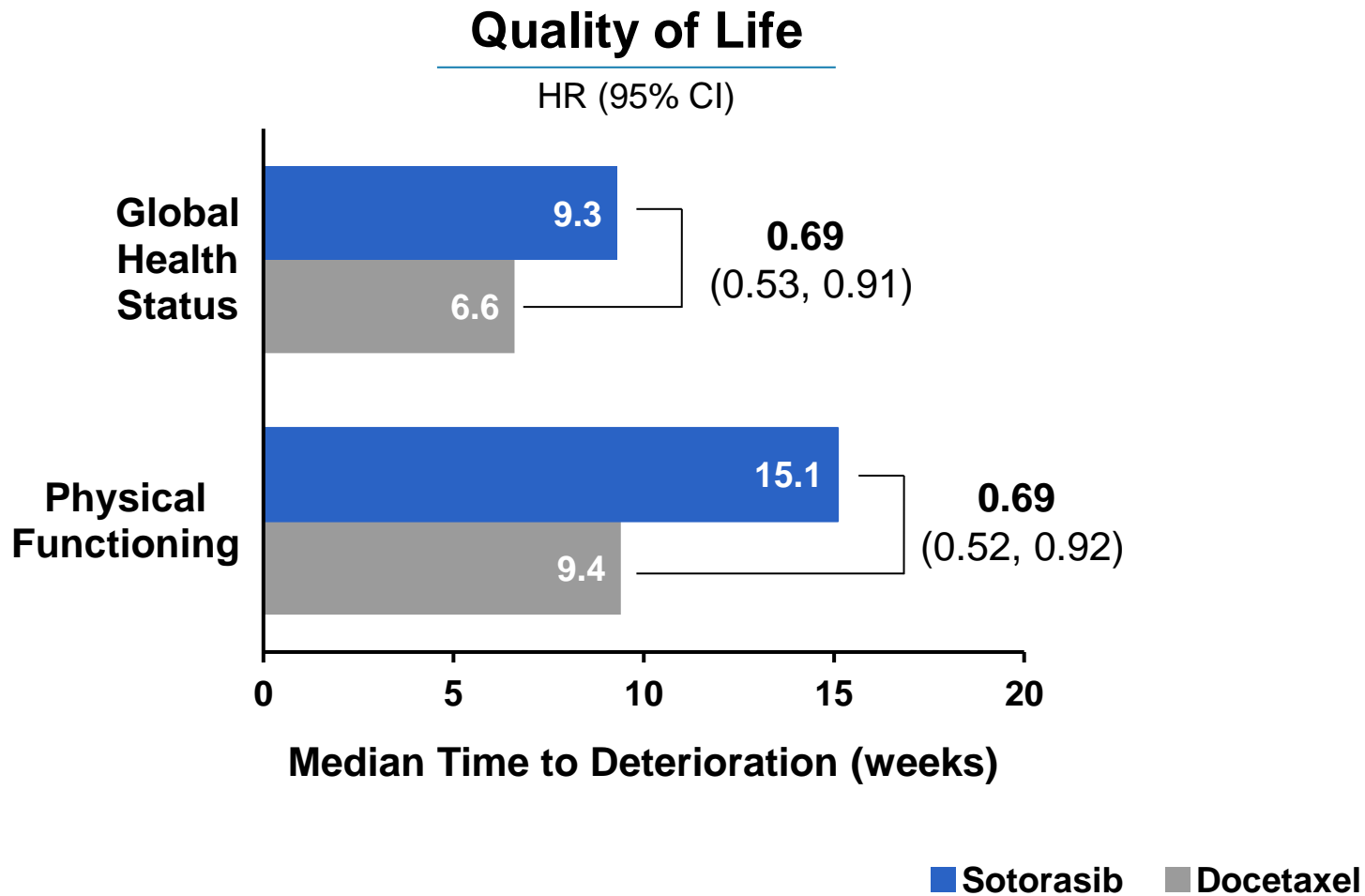
Overview



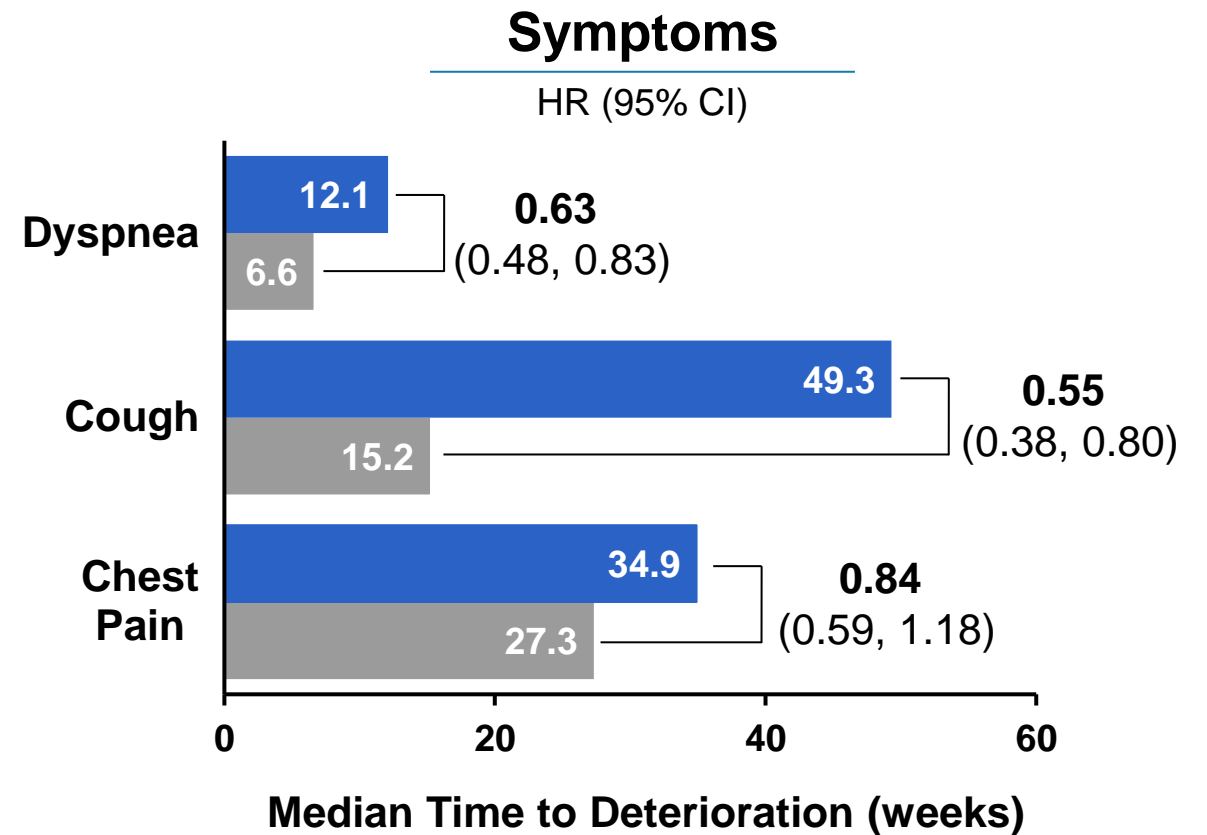
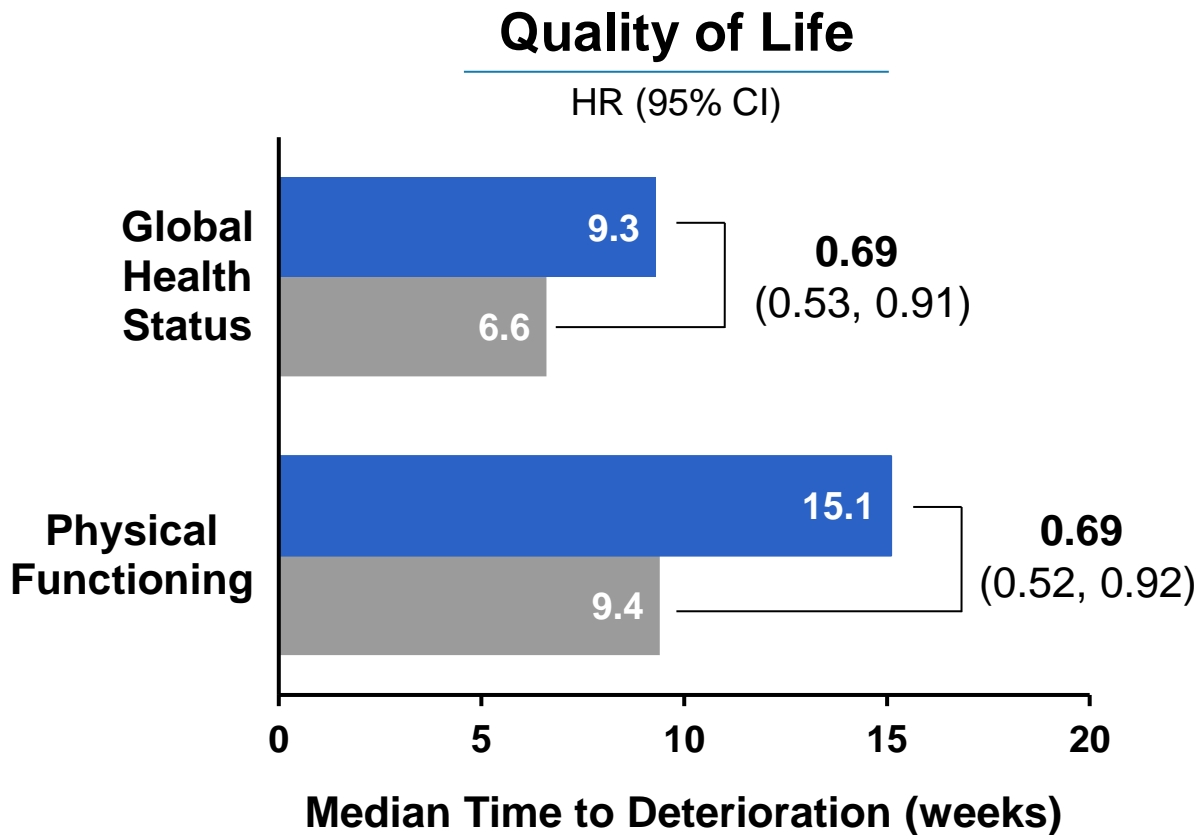
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PRO: Sotorasib Improved Time to Deterioration



PRO: Sotorasib Improved Time to Deterioration



■ Sotorasib ■ Docetaxel

CodeBreakK 200 Confirms Clinical Benefit of Sotorasib

- **Sotorasib improved PFS vs. docetaxel**
- **PFS benefit was consistent and statistically robust**
 - Between central and investigator review
 - Across subgroups
 - In prespecified sensitivity analyses
- **Sotorasib improved ORR, DCR, TTR, and DOR vs. docetaxel**
- **OS was similar**
- **Patient reported outcomes favored sotorasib**

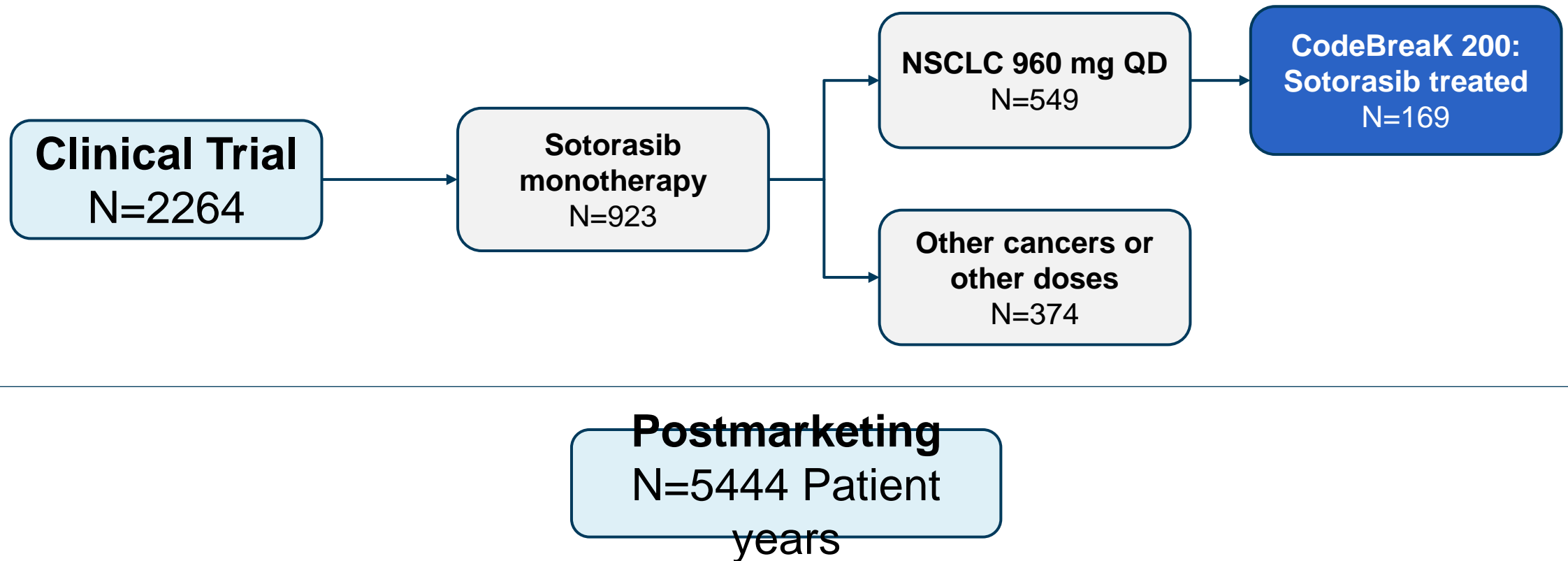
Safety

Osa Eisele, MD, MPH

Executive Medical Director, Global Patient Safety
Amgen Inc.



Safety Profile Supported by a Robust Safety Database

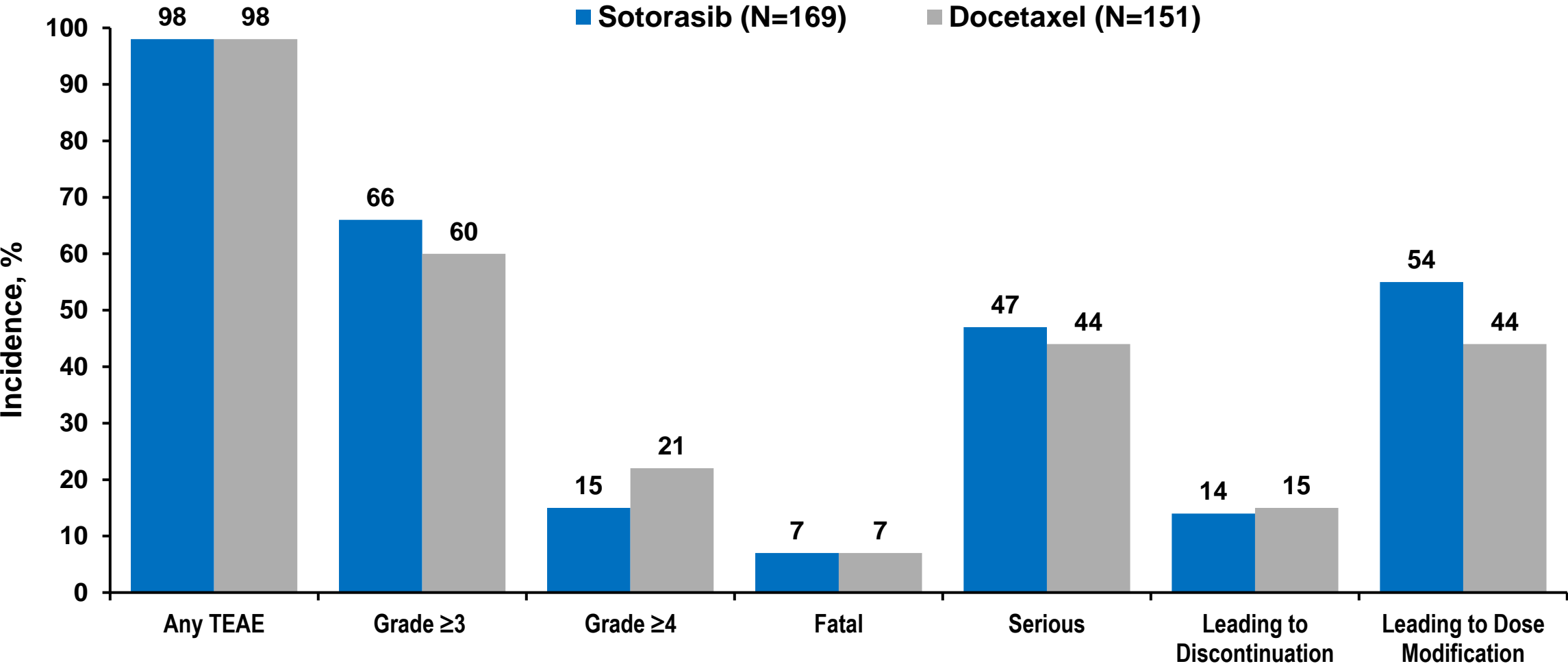


Established safety profile supported by an extensive clinical trial program and postmarketing experience

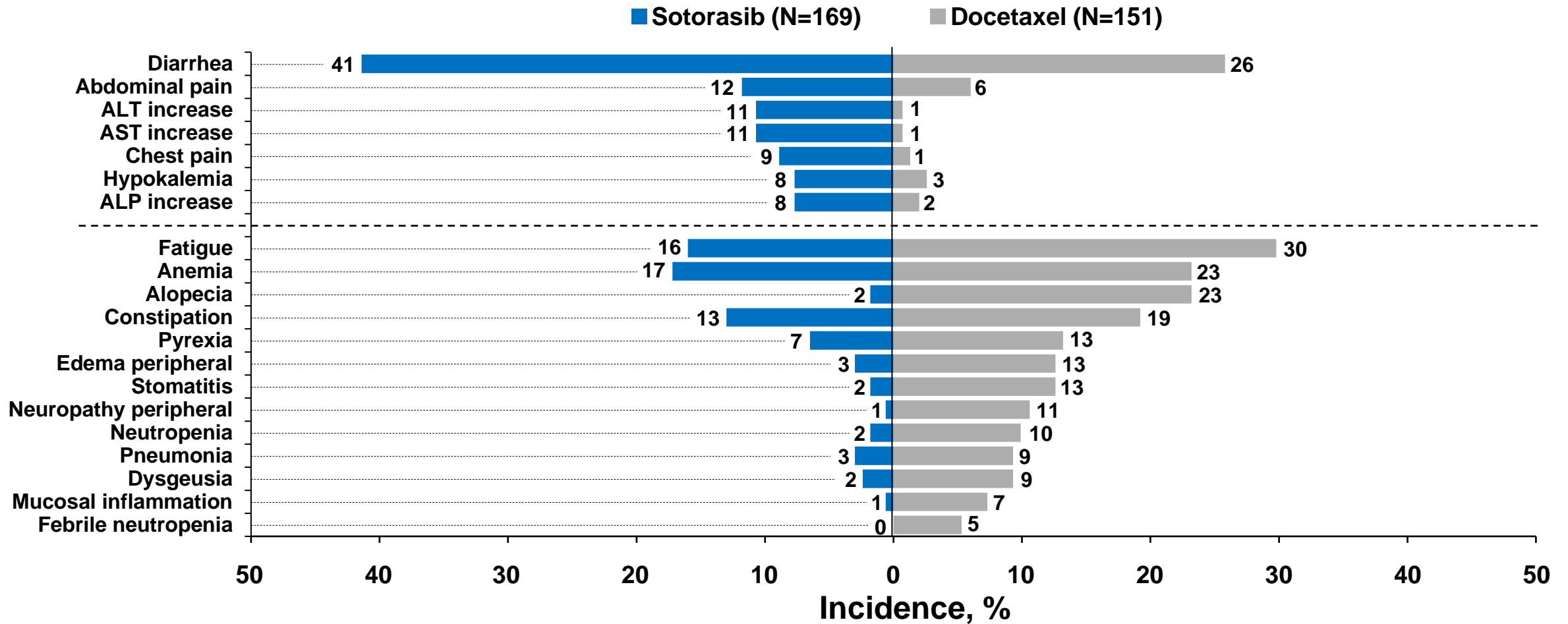
Exposure Duration

	Sotorasib N=169	Docetaxel N=151
Duration of drug administration (weeks)		
Median	20	12
Range	0.4-101	3-101
Number of cycles		
Median	7	4
Range	1-34	1-33
Relative dose intensity (%)		
Median	100	95
Range	24-100	49-106

Safety Summary



Common AEs with 5% Difference in Incidence Rate



Differentiated safety profile

Most Frequent Grade ≥ 3 AEs Consistent with Each Drug's Safety Profile

	Sotorasib N=169 n (%)	Docetaxel N=151 n (%)
Subjects reporting Grade ≥ 3 AEs	112 (66)	90 (60)
Diarrhea	23 (14)	4 (3)
Alanine aminotransferase increased	14 (8)	0
Aspartate aminotransferase increased	10 (6)	0
Anemia	8 (5)	10 (7)
Fatigue	4 (2)	9 (6)
Pneumonia	1 (0.6)	9 (6)
Neutropenia	0	13 (9)
Febrile neutropenia	0	8 (5)

Common AEs Leading to Treatment Modification Consistent with Each Drug's Safety Profile

	Sotorasib N=169 n (%)	Docetaxel N=151 n (%)
Leading to Treatment Modification	93 (55)	67 (44)
Diarrhea	31 (18)	3 (2)
Alanine aminotransferase increased	12 (7)	0
Aspartate aminotransferase increased	12 (7)	0
Fatigue	2 (1)	10 (7)
Pneumonia	0	8 (5)

More Hospitalizations Due to Docetaxel Toxicities

	Sotorasib N=169 n (%)	Docetaxel N=151 n (%)
Serious adverse events	80 (47)	66 (44)
Subjects reporting TEAE hospitalization	77 (46)	63 (42)
Hepatic events*	6 (4)	0 (0)
Diarrhea	5 (3)	2 (1)
Lower respiratory tract infections (pneumonia)*	1 (0.6)	13 (9)
Breathing abnormalities (dyspnea)*	2 (1)	7 (5)
Neutropenia*	0	7 (5)
Anemia	1 (0.6)	5 (3)
Sepsis*	0	5 (3)
Subjects reporting TRAE hospitalization	15 (9)	33 (22)

Cut-off ≥3% in either treatment group.

* Grouped AE terms.

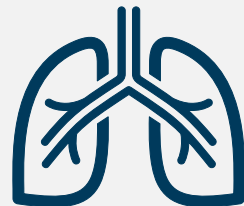
Sotorasib Key Risks



Diarrhea

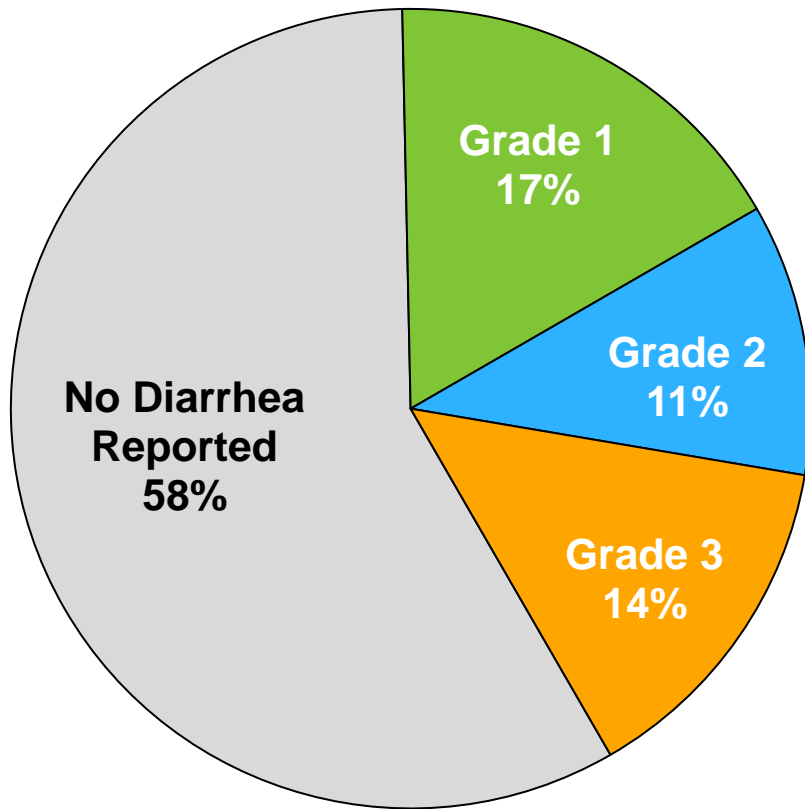


Hepatotoxicity



Interstitial lung disease

Diarrhea – Manageable with Dose Modifications and Anti-Diarrheals



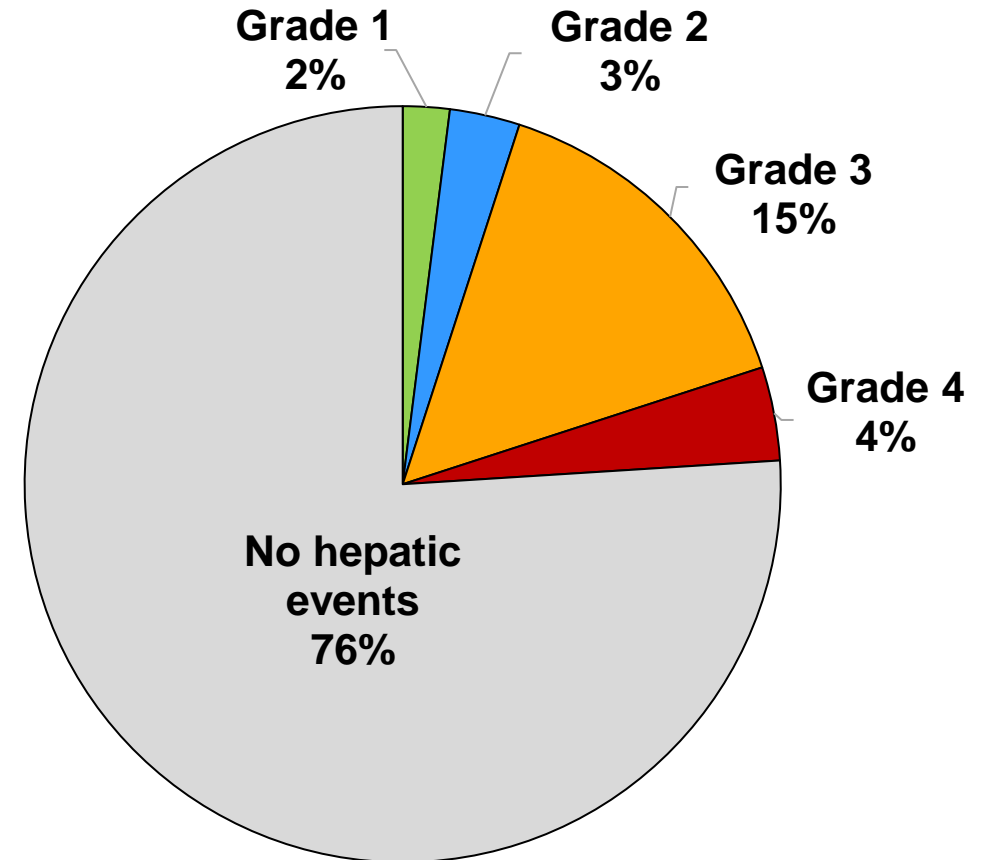
Sotorasib N=169	
Diarrhea, N1 (%)	70 (41)
Management	
Dose interruption	26 (15)
Dose reduction	14 (8)
Discontinuation	1 (0.6)
Antidiarrheals, n/N1	53 (76)
Outcome	
With fully resolved events*, n/N1	57 (81)
Median duration of events, all grades (days)	22

*Unresolved diarrhea reported in 13 patients:

8 patients died from DP; diarrhea events resolved after SFU in 2 patients; 1 patient withdrew consent; 1 patient completed study; and 1 patient remains on active treatment.

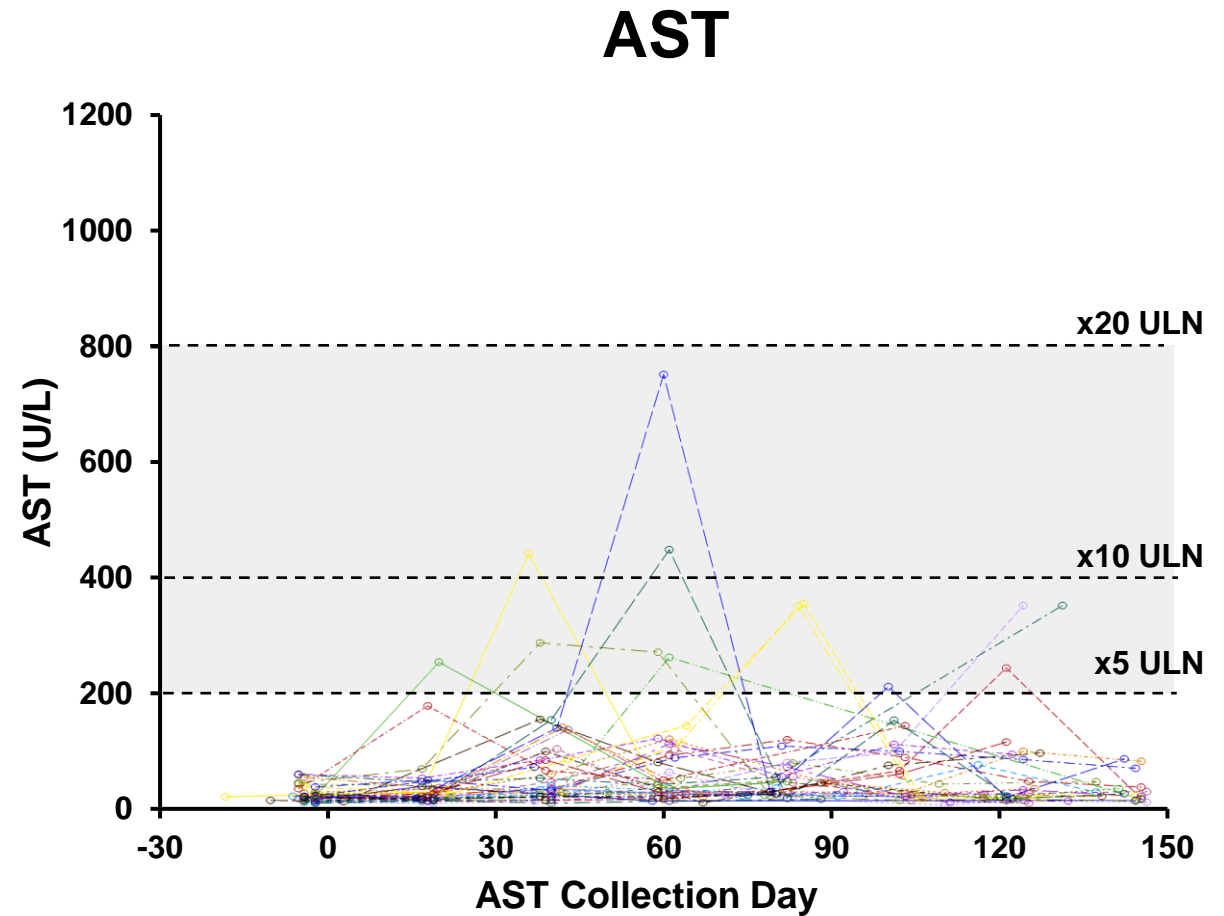
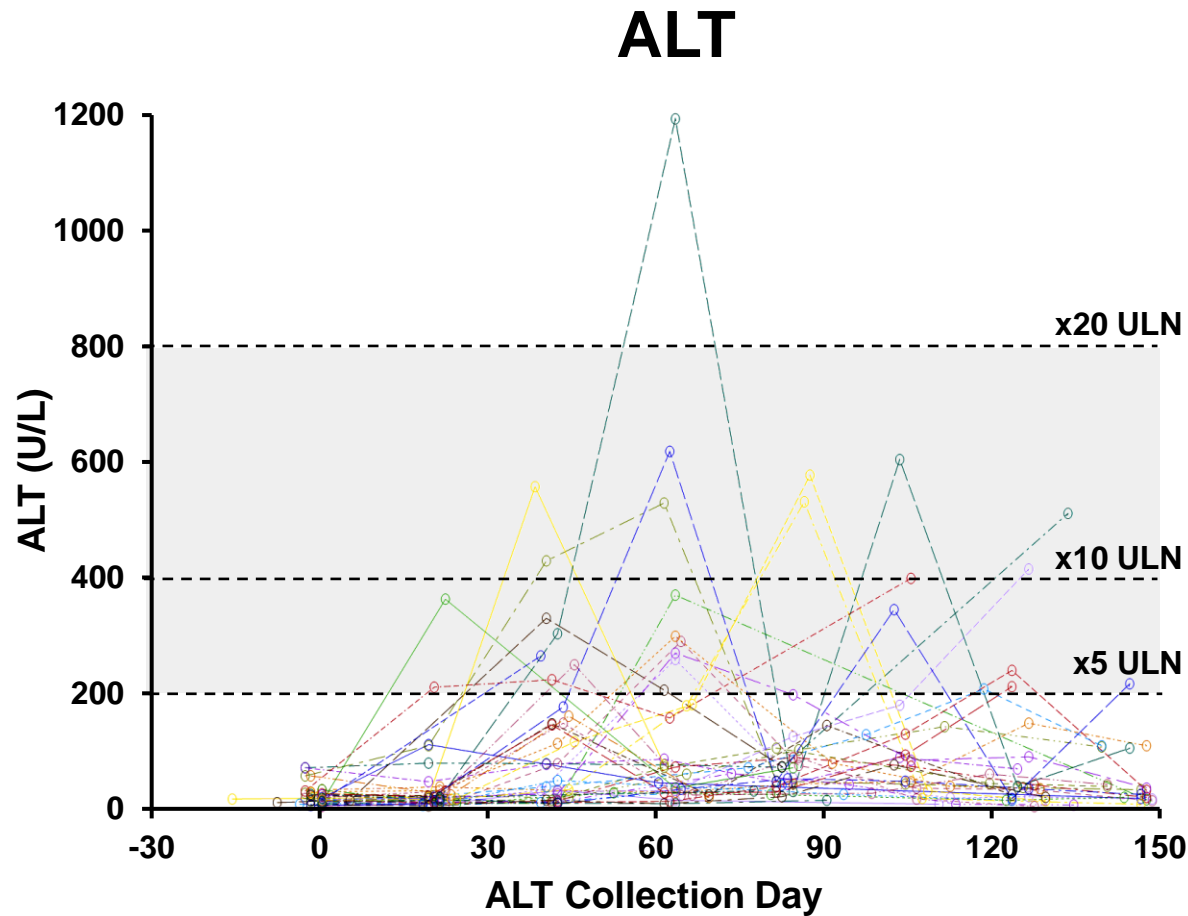
Hepatic Events Due to Lab Abnormalities

Frequent (n≥3) events	Sotorasib N=169
Hepatotoxicity EOI, n (%)	41 (24)
ALT increased	18 (11)
AST increased	18 (11)
GGT increased	5 (3)
Blood bilirubin increased	5 (3)
Hepatic function abnormal	3 (2)
Hypertransaminasemia	3 (2)



No reports of severe* or fatal liver injury

Patients on Sotorasib With ALT or AST >3x ULN (N=39)



ALT/AST elevations reversible and responsive to treatment modification

Hepatic AEs – Manageable with Dose Modifications and Steroids

	Sotorasib N=169
Hepatotoxicity, N1 (%)	41 (24)
Management	
Dose interruption	30 (18)
Dose reduction	11 (7)
Discontinuation	13 (8)
Corticosteroids, n/N1 (%)	28 (68)
Outcomes	
Subjects with fully resolved events*, n/N1 (%)	36 (88)
Median duration of events, all grade (days)	22

*Unresolved hepatic events reported in 5 subjects:

3 subjects died from disease progression prior to event resolution; 1 subject lost to follow-up; 1 subject discontinued sotorasib due to hepatic AE and no further information reported.

PRO: Sotorasib Patients Less Bothered by Side Effects

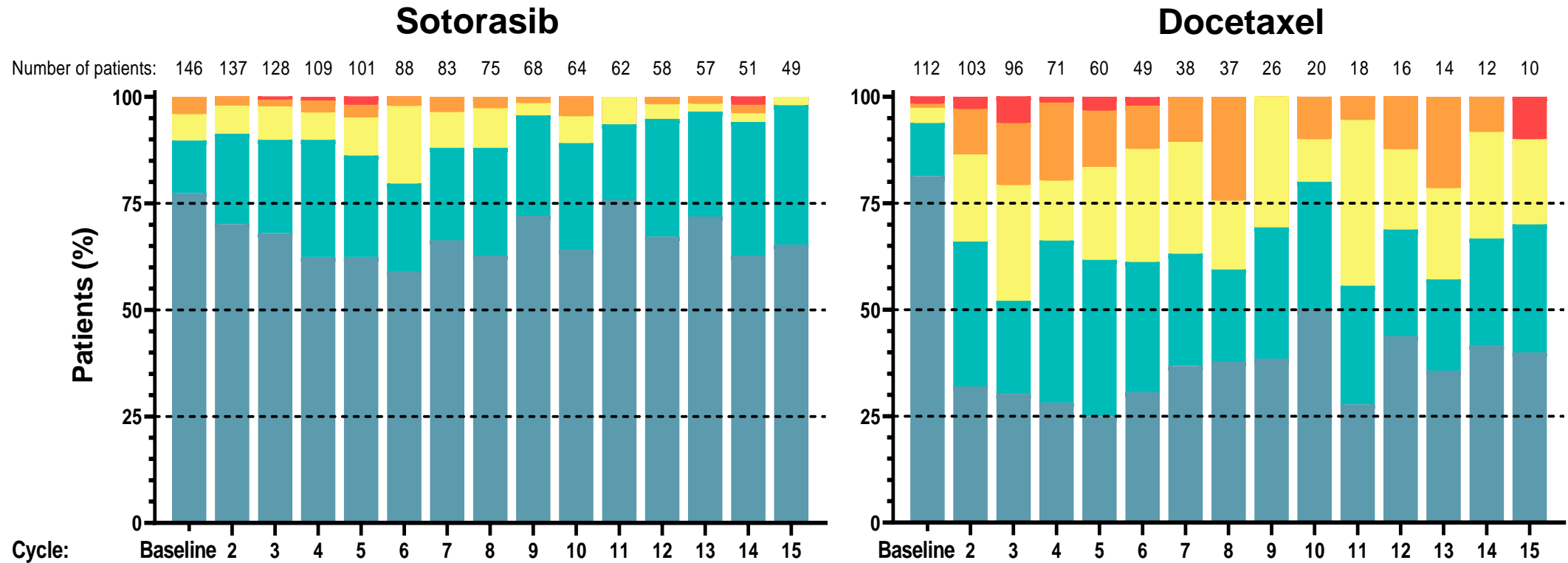
FACT-G GP5: “I am bothered by side effects of treatment”

■ Not at all ■ A little bit ■ Somewhat ■ Quite a bit ■ Very much

PRO: Sotorasib Patients Less Bothered by Side Effects

FACT-G GP5: “I am bothered by side effects of treatment”

■ Not at all
 ■ A little bit
 ■ Somewhat
 ■ Quite a bit
 ■ Very much



OR = 5.71; 95% CI 2.98-10.91

Overall Safety Conclusions

- **Safety profile of sotorasib is consistent with its established profile**
- **Differentiated safety profile**
- **Patients on sotorasib report being less bothered by side effects**
- **Key risks can be managed by appropriate monitoring, dose modifications, and supportive care**

Reliability of CodeBreakK 200 Results

Gregory Friberg, MD

Vice President, Medical Affairs
Amgen Inc.



An Adequate and Well-Controlled Trial Should Include

-
- a** Clear statement of objectives and methods of analysis

 - b** Study design that permits a valid comparison with a control

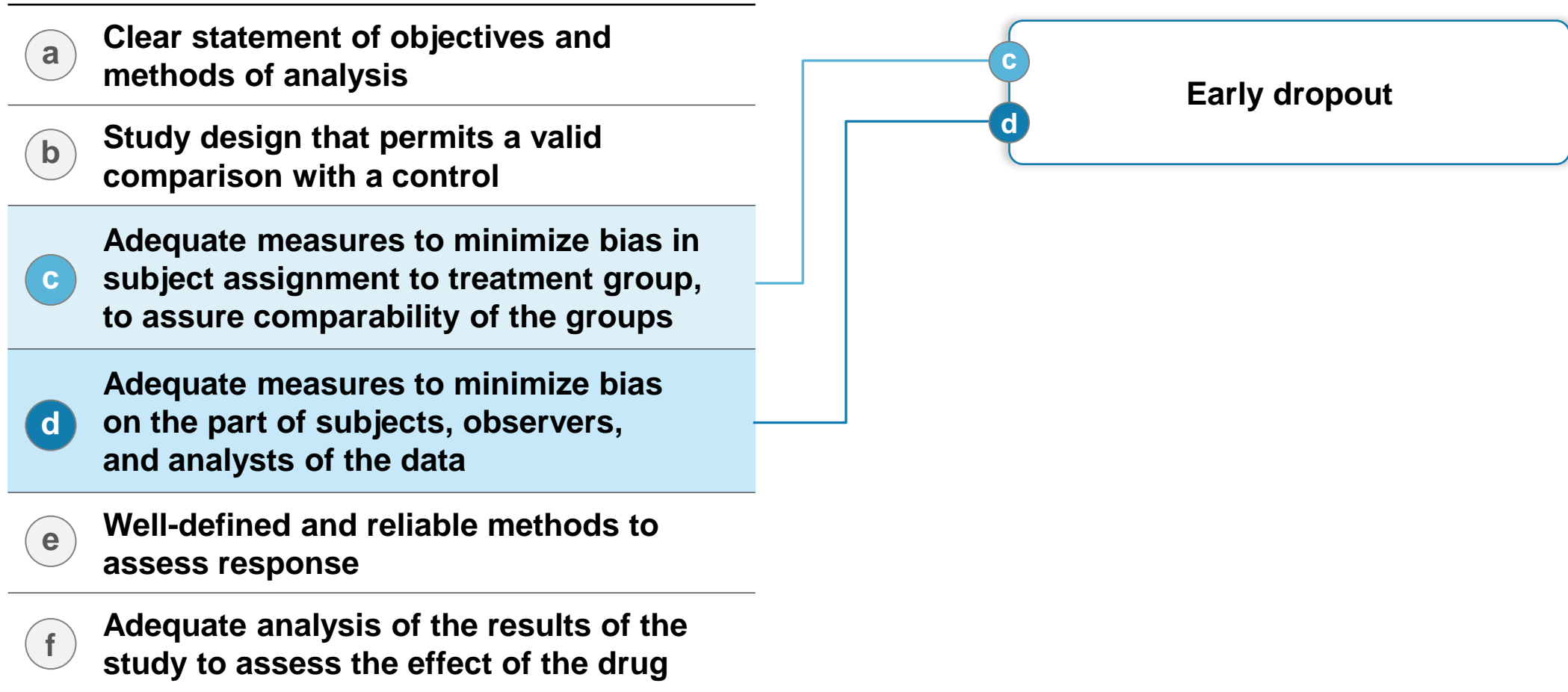
 - c** Adequate measures to minimize bias in subject assignment to treatment group, to assure comparability of the groups

 - d** Adequate measures to minimize bias on the part of subjects, observers, and analysts of the data

 - e** Well-defined and reliable methods to assess response

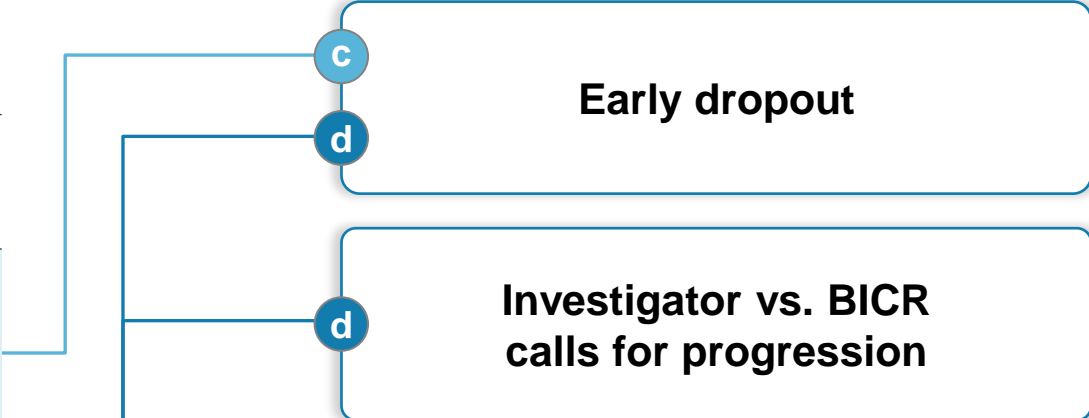
 - f** Adequate analysis of the results of the study to assess the effect of the drug
-

An Adequate and Well-Controlled Trial Should Include

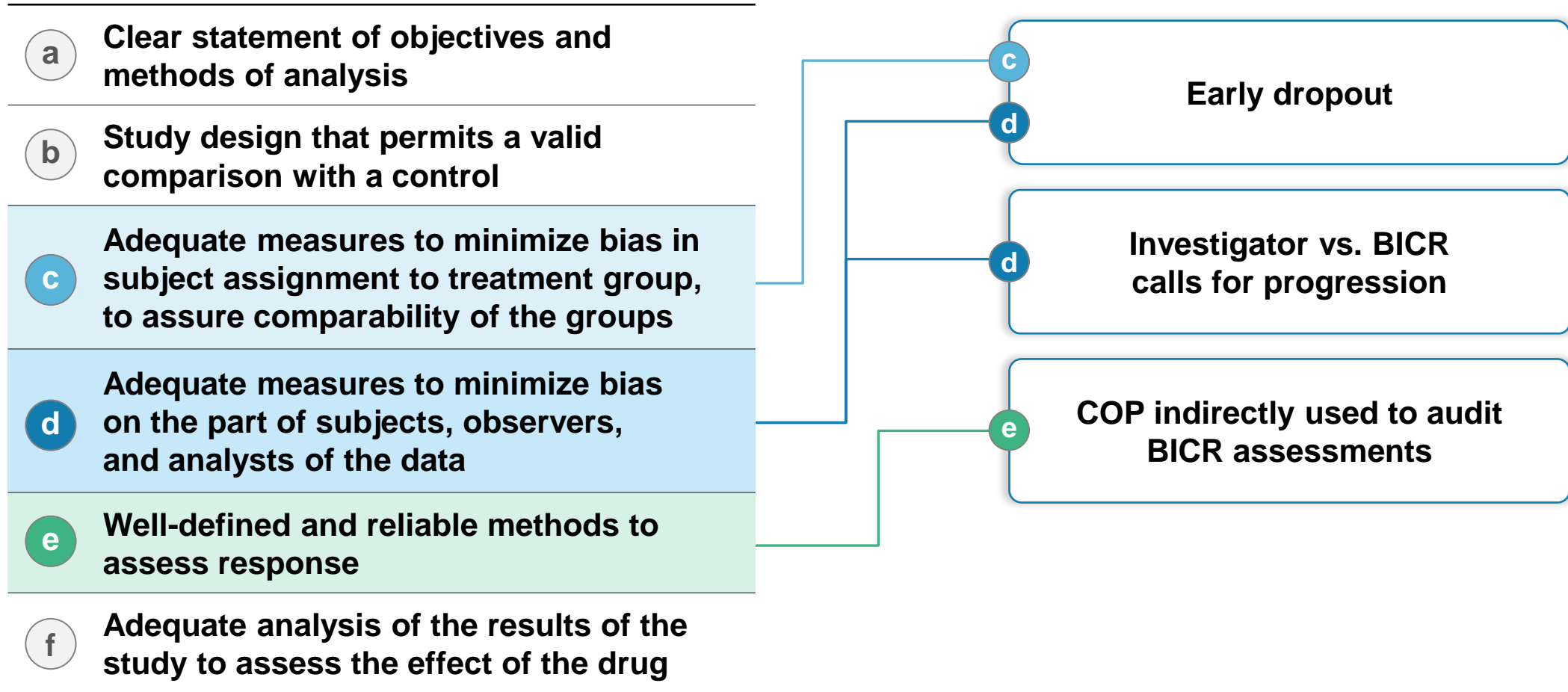


An Adequate and Well-Controlled Trial Should Include

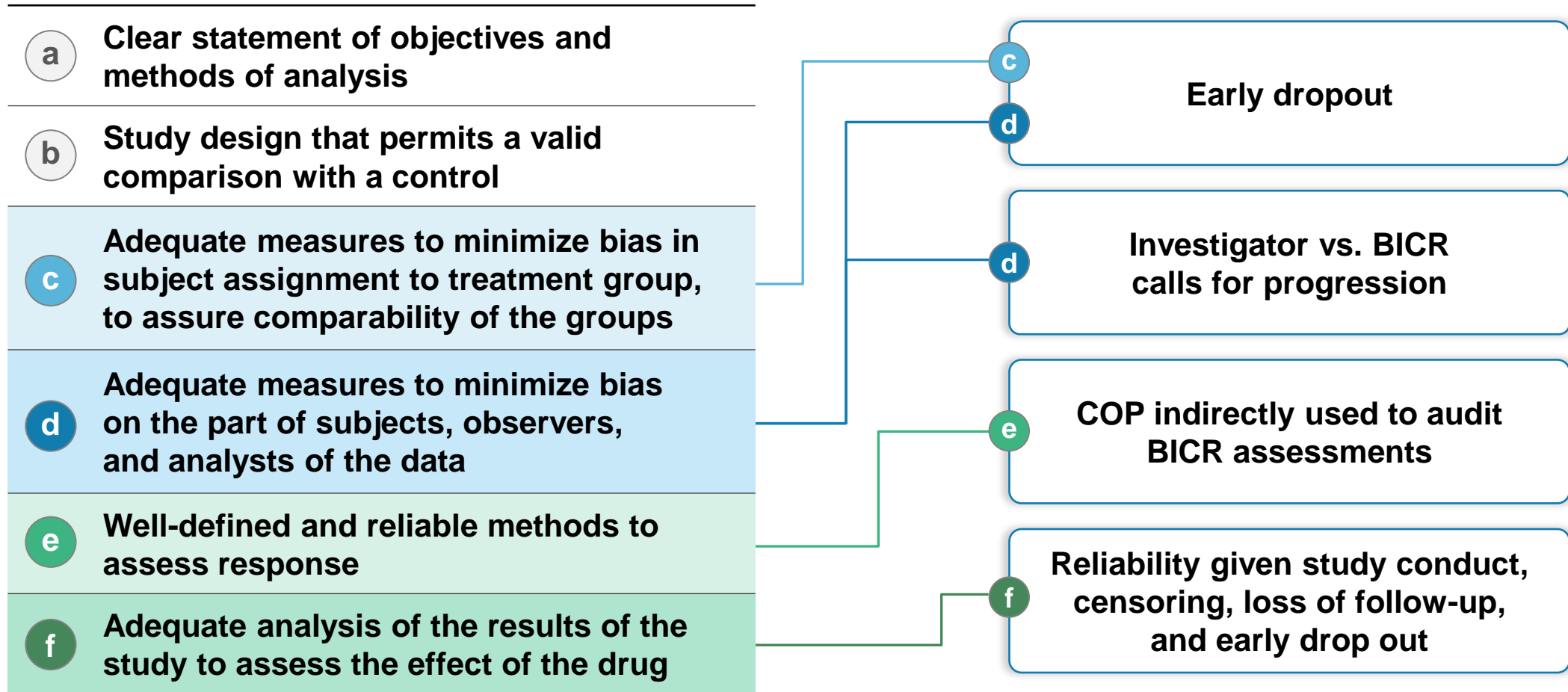
- a Clear statement of objectives and methods of analysis
- b Study design that permits a valid comparison with a control
- c Adequate measures to minimize bias in subject assignment to treatment group, to assure comparability of the groups**
- d Adequate measures to minimize bias on the part of subjects, observers, and analysts of the data**
- e Well-defined and reliable methods to assess response
- f Adequate analysis of the results of the study to assess the effect of the drug



An Adequate and Well-Controlled Trial Should Include



An Adequate and Well-Controlled Trial Should Include



Addressing Potential Sources of Bias

c

Early dropout

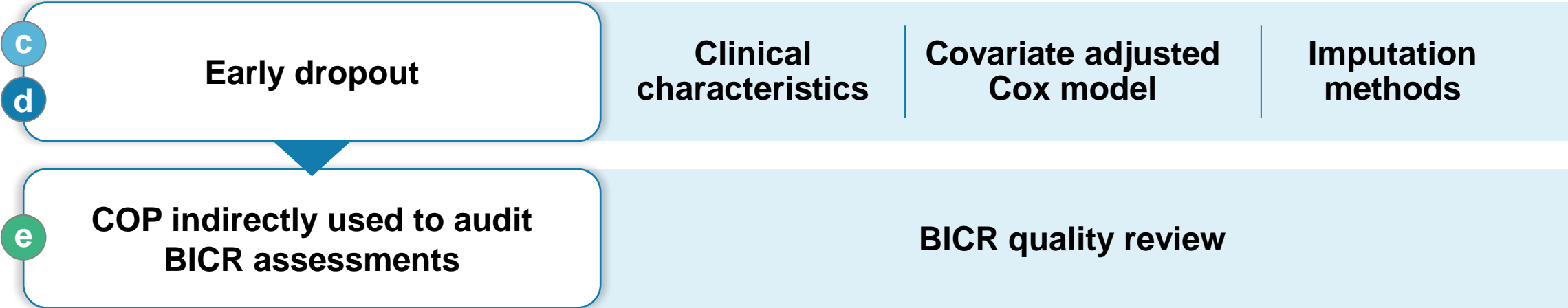
d

Clinical
characteristics

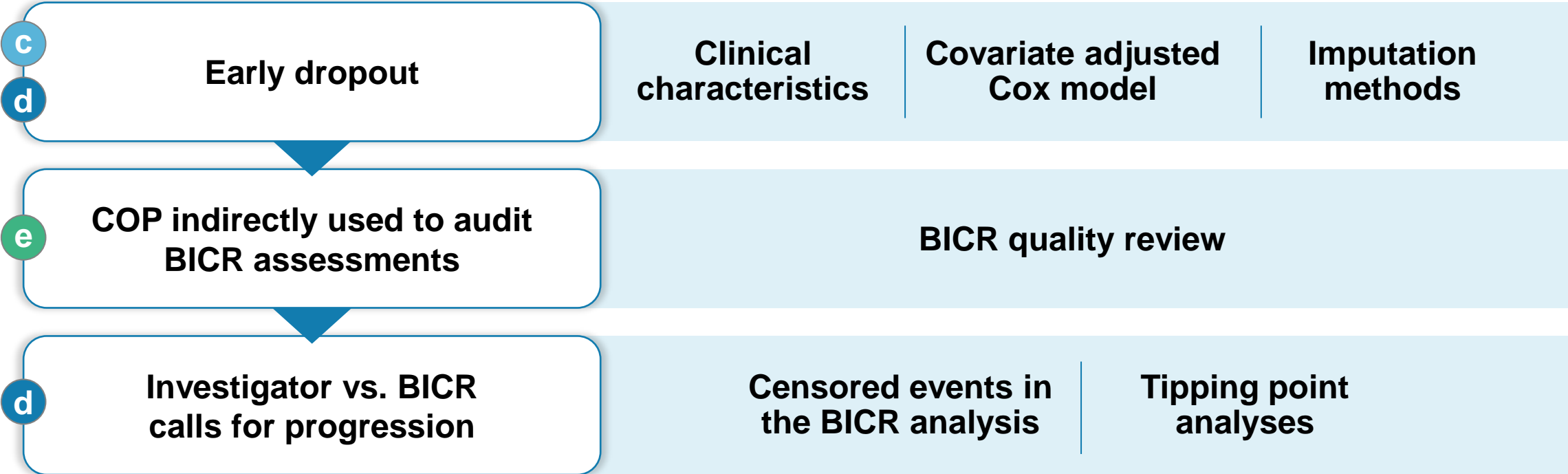
Covariate adjusted
Cox model

Imputation
methods

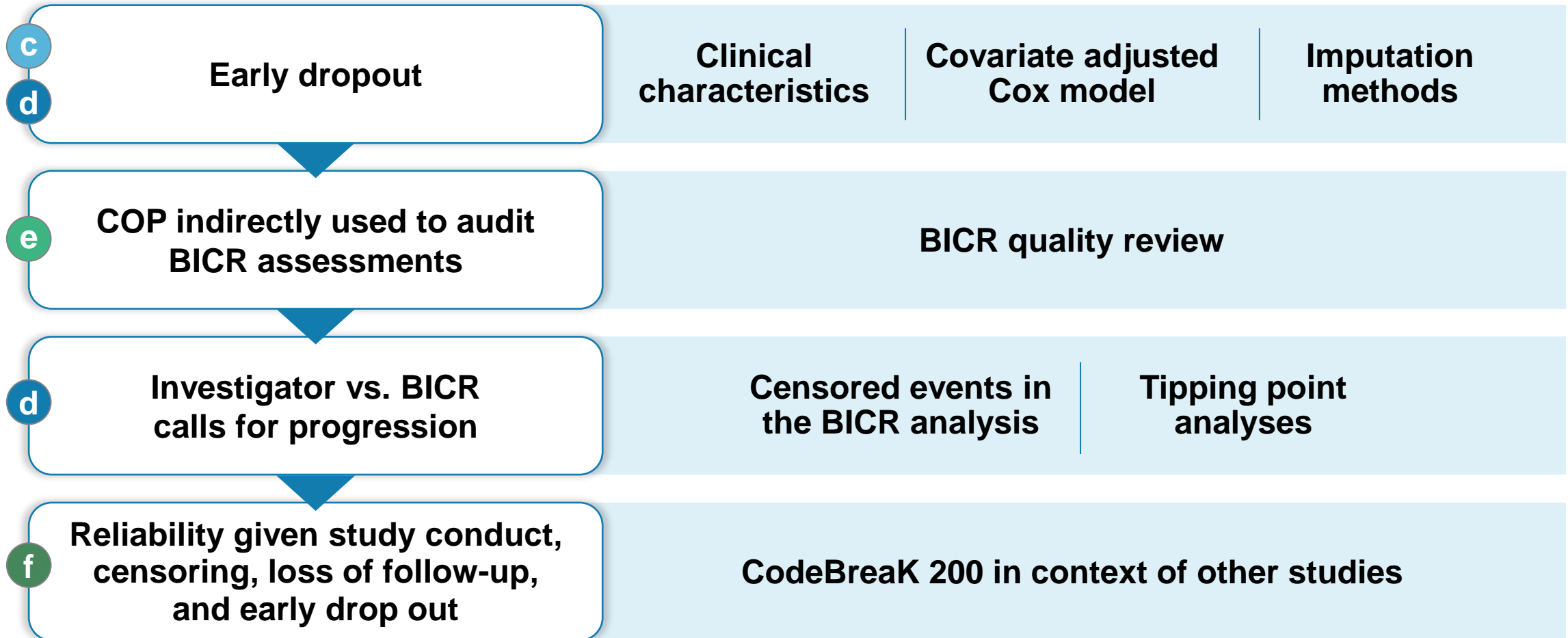
Addressing Potential Sources of Bias



Addressing Potential Sources of Bias



Addressing Potential Sources of Bias



Untreated Early Dropout in the Docetaxel Arm

	Docetaxel Untreated N=23	Docetaxel Treated N=151
Age, years, median (range)	67 (54, 87)	64 (35, 81)
North America / Europe / Other, %	13 / 70 / 17	13 / 73 / 15
Smoking history (current or former)	21 (91)	145 (96)
ECOG performance status 1	17 (74)	98 (65)
History of CNS involvement	10 (43)	50 (33)
Liver metastasis	7 (30)	28 (19)
Prior lines of therapy		
1	11 (48)	67 (44)
2	8 (35)	61 (40)
>2	4 (17)	23 (15)
Tumor burden by SLD, > median	10 (44)	74 (49)

Untreated Early Dropout: Covariate-Adjusted PFS Analysis Supports Primary Results

Stratified Cox Model Adjusted for Additional Covariates

Sotorasib vs Docetaxel HR (95% CI)	Descriptive p-value
0.60 (0.46, 0.79)	<0.001

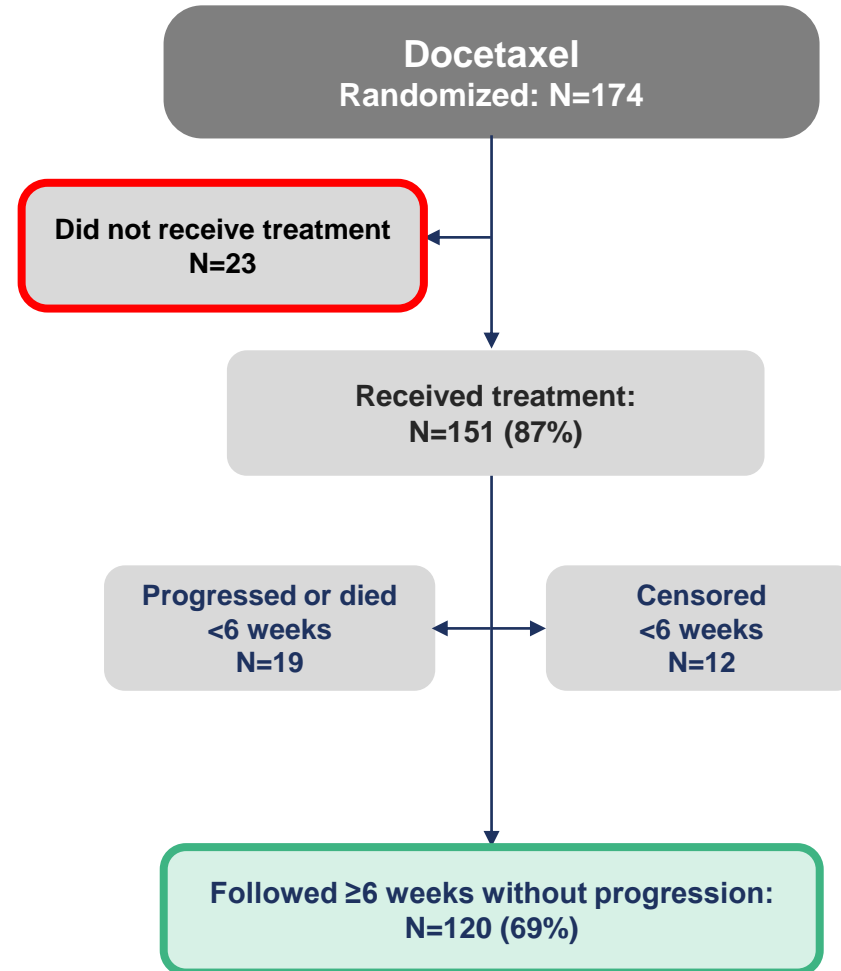
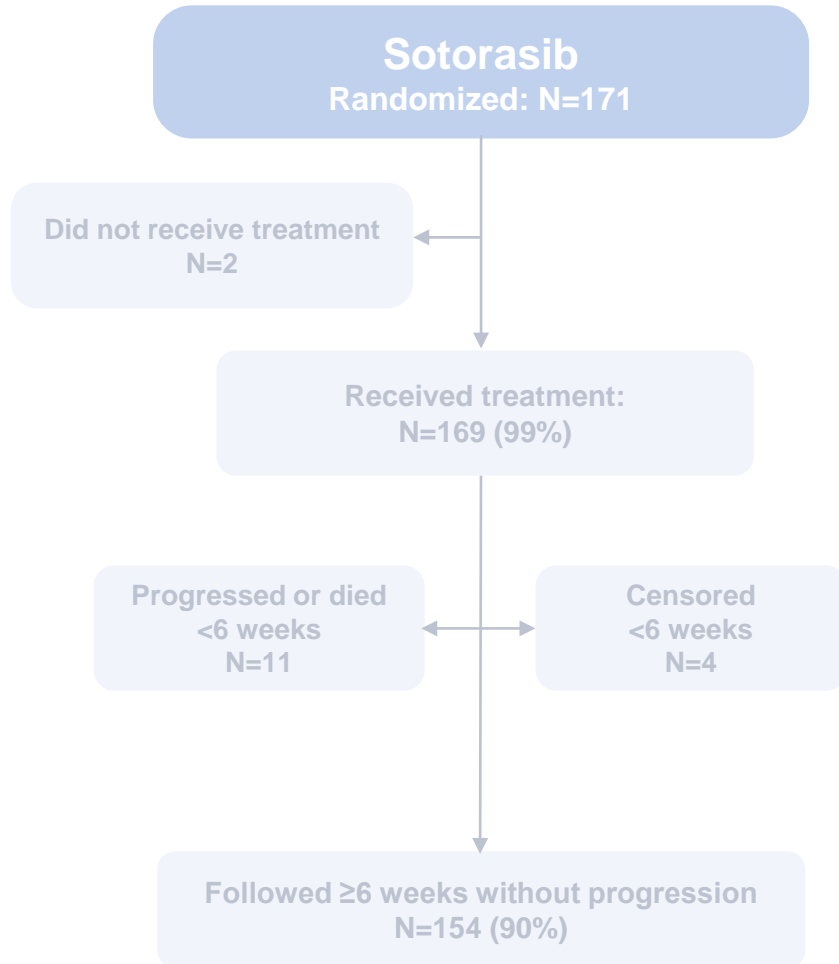
- **Additional covariates with $\geq 10\%$ prevalence**

- Liver metastasis (yes, no)
- Baseline tumor burden (>median, \leq median)
- ECOG performance status (0,1)
- Age (<, ≥ 65)
- North America (yes, no)

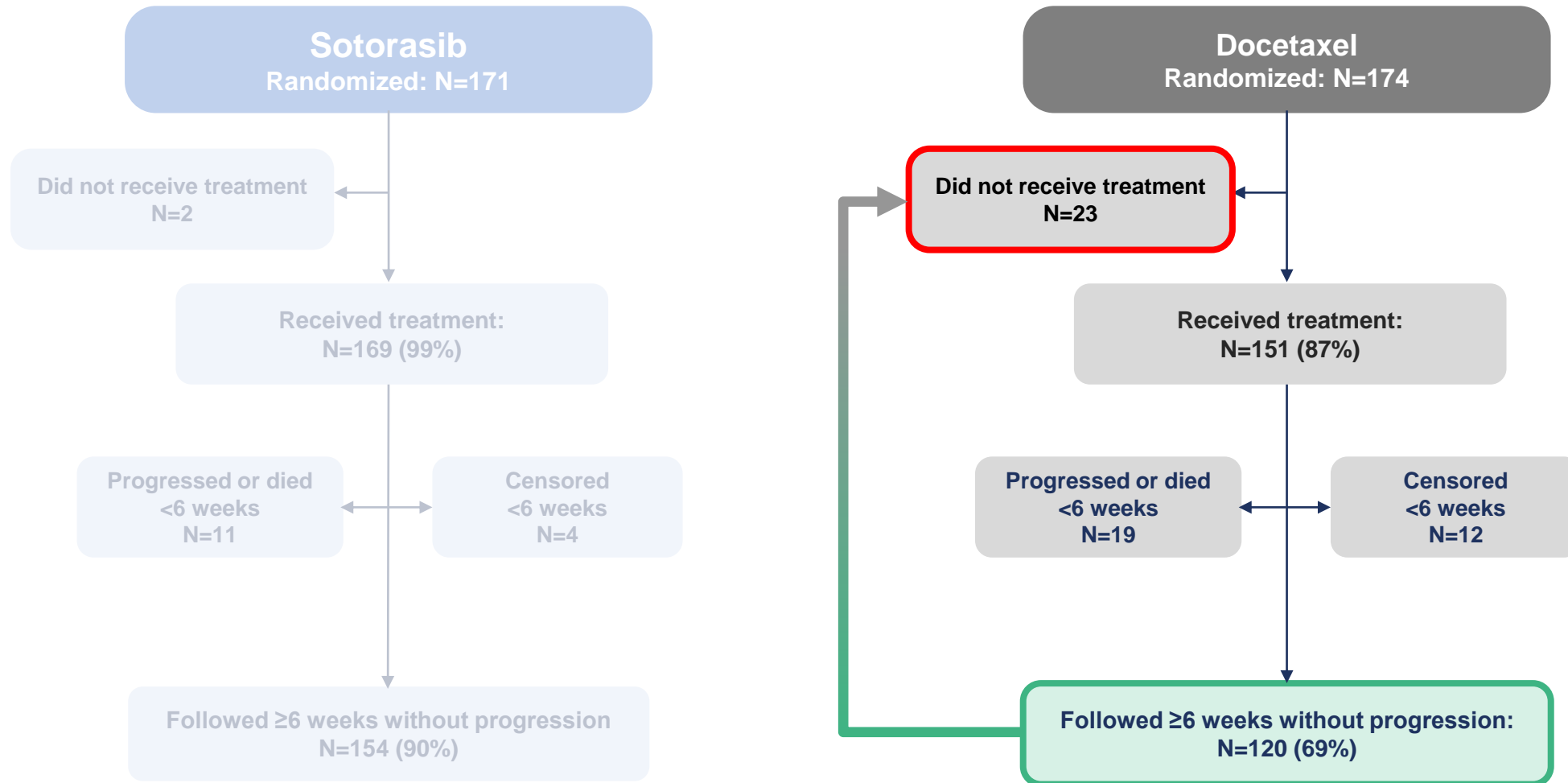
- **Stratification factors**

- Prior lines of therapy (1, 2, >2)
- History of CNS involvement (yes, no)
- Race (Asian vs Non-Asian)

Simulations to Address Untreated Early Dropouts on Docetaxel



Simulations to Address Untreated Early Dropouts on Docetaxel



Untreated Early Dropout: PFS Imputation Results Support Primary Analysis

Based on 20,000 Simulations

Imputed Patients by Resampling	Average HR (95% CI)	Proportion of Times Sotorasib PFS Advantage was Statistically Significant
23 untreated in docetaxel	0.70 (0.54, 0.90)	99.1%

- **For 23 docetaxel untreated patients, resampling was performed within treatment group and stratum**
- **PFS superiority threshold $p < 0.044$**

Basis of FDA Imputation Models: Patients With Top 50% PFS Outcomes

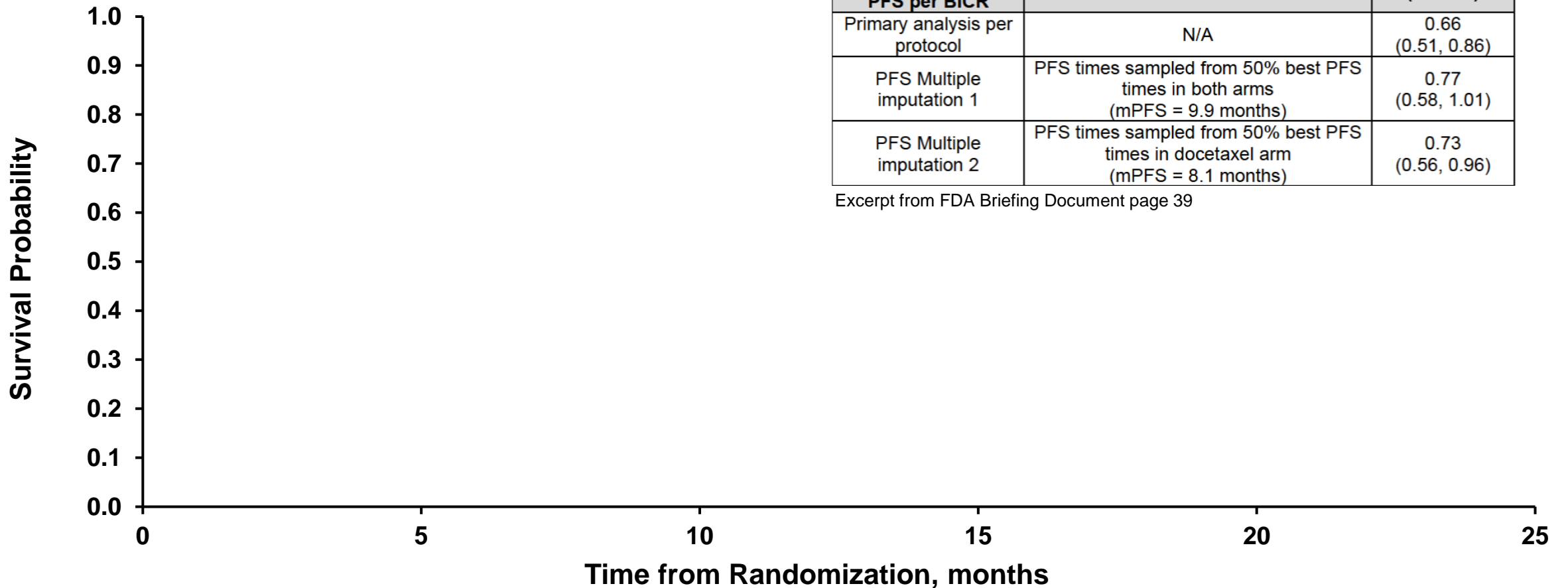


Table 12: Sensitivity Analyses of PFS to Investigate Impact of Early Withdrawal

Sensitivity Analyses of PFS per BICR	PFS assumption for imputation	HR (95% CI)
Primary analysis per protocol	N/A	0.66 (0.51, 0.86)
PFS Multiple imputation 1	PFS times sampled from 50% best PFS times in both arms (mPFS = 9.9 months)	0.77 (0.58, 1.01)
PFS Multiple imputation 2	PFS times sampled from 50% best PFS times in docetaxel arm (mPFS = 8.1 months)	0.73 (0.56, 0.96)

Excerpt from FDA Briefing Document page 39

Basis of FDA Imputation Models: Patients With Top 50% PFS Outcomes

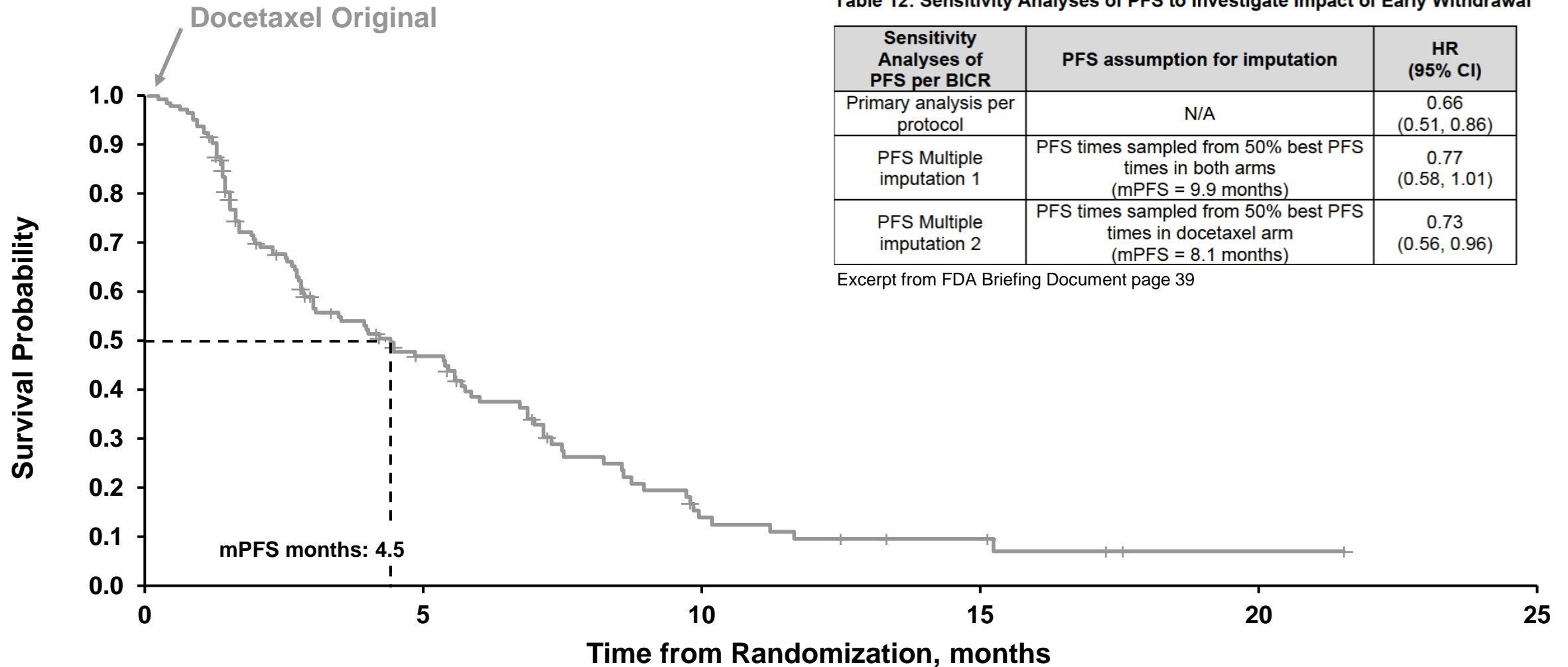


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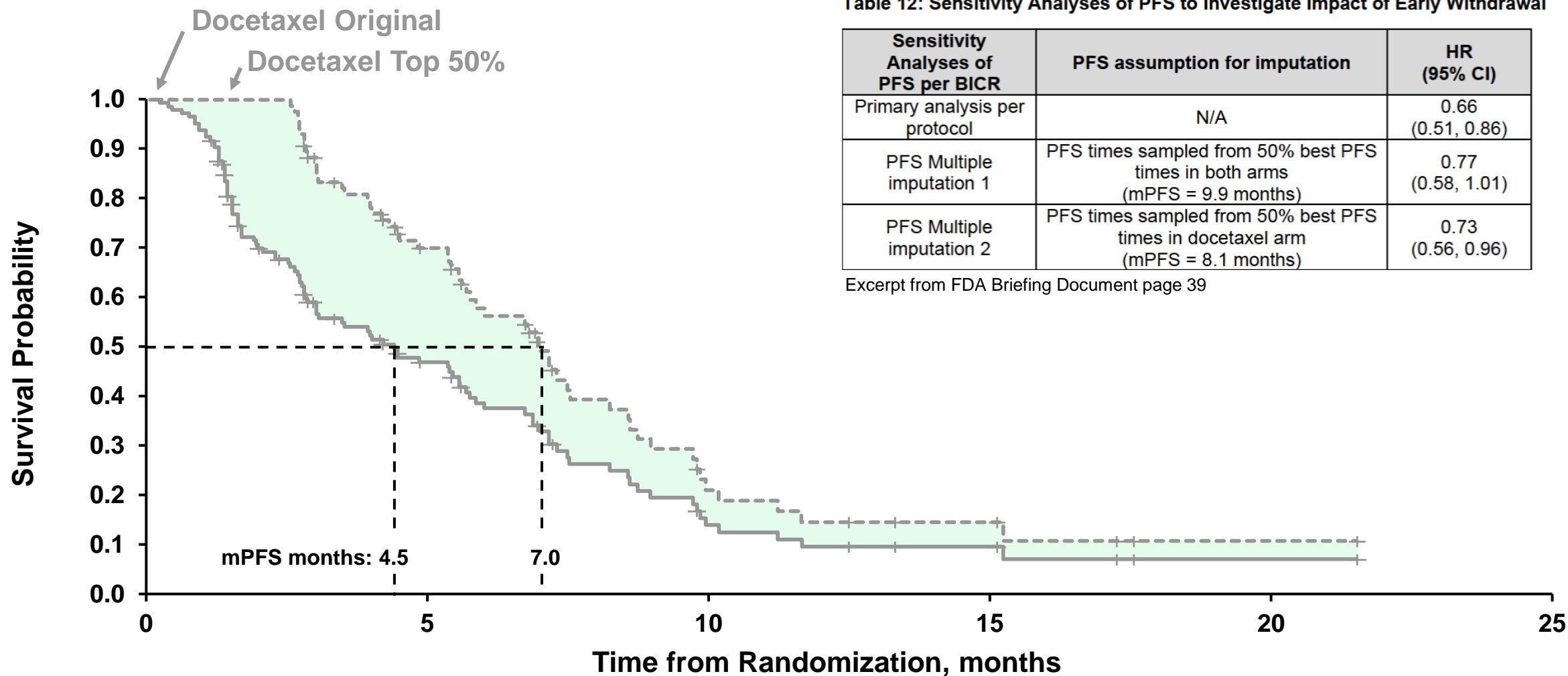


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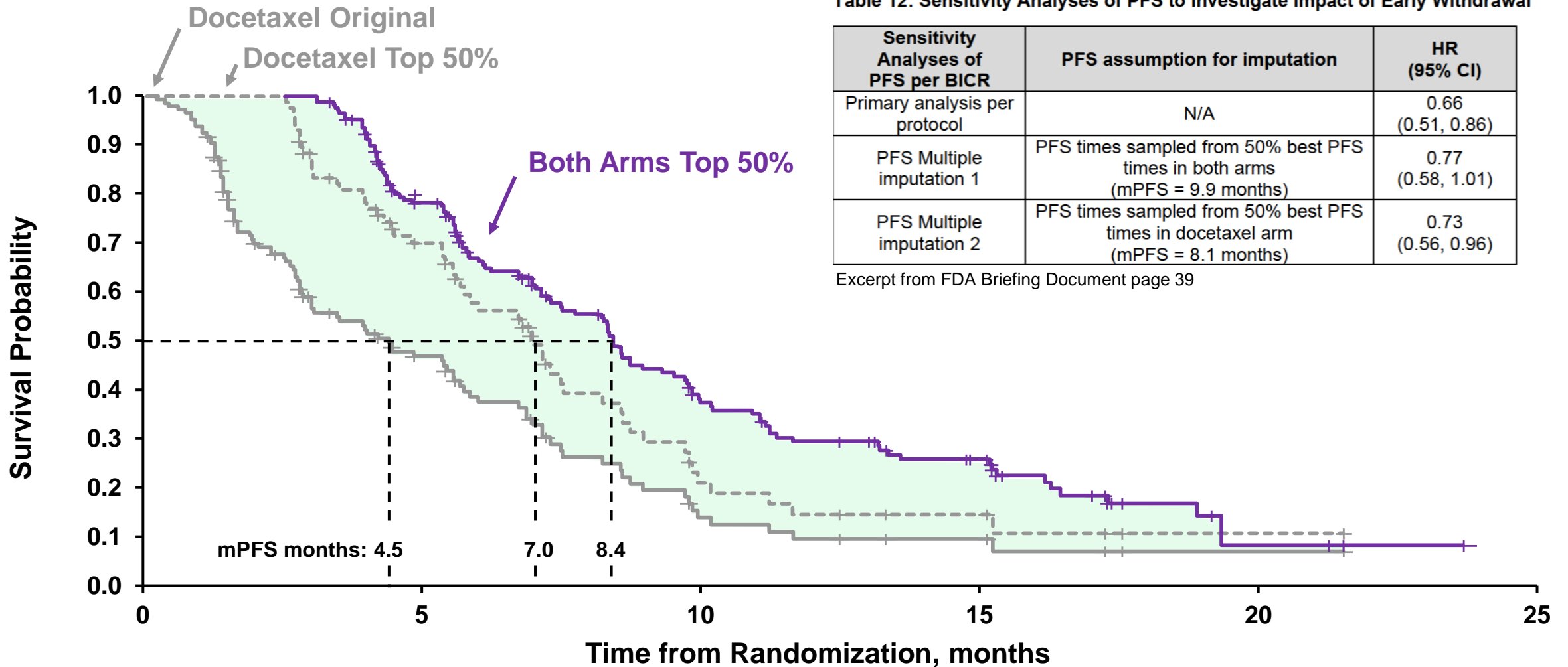


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Excerpt from FDA Briefing Document page 39

Imaging Vendor Procedures

Primary Analysis Based Upon 100% BICR Re-Read

- **PFS endpoint determined by BICR**
 - All study procedures adhered to protocol and imaging charter
- **Periodic event projections identified discordance**
 - Charter-directed quality review updated 11 progression events
 - Concern that quality review selectively influenced docetaxel arm
- **Mitigation implemented with 100% re-read by new and independent BICR team**

Primary analysis based on 100% re-read

Censoring in BICR PFS Analysis

	Sotorasib Total Randomized: 171	Docetaxel Total Randomized: 174
BICR PFS events	122	101
BICR disease progression	100	68
Death	22	33*

*Includes 3 untreated

Censoring in BICR PFS Analysis

	Sotorasib Total Randomized: 171	Docetaxel Total Randomized: 174
BICR PFS events	122	101
BICR disease progression	100	68
Death	22	33*
BICR PFS censored	49	73
Untreated early dropout	2	20
Started new anti-cancer therapy	24	31
Other reasons	23	22

*Includes 3 untreated

Other reasons: Alive at last follow up, withdrawal of consent, discontinued treatment

Tipping Point Analysis: Therapy Switch Censoring

Sotorasib (Assumes the Worst)

All 24 censored patients called progression at start of new therapy

Docetaxel (Assumes the Best)

All 31 censored patients considered non-progressors and then called progression one by one

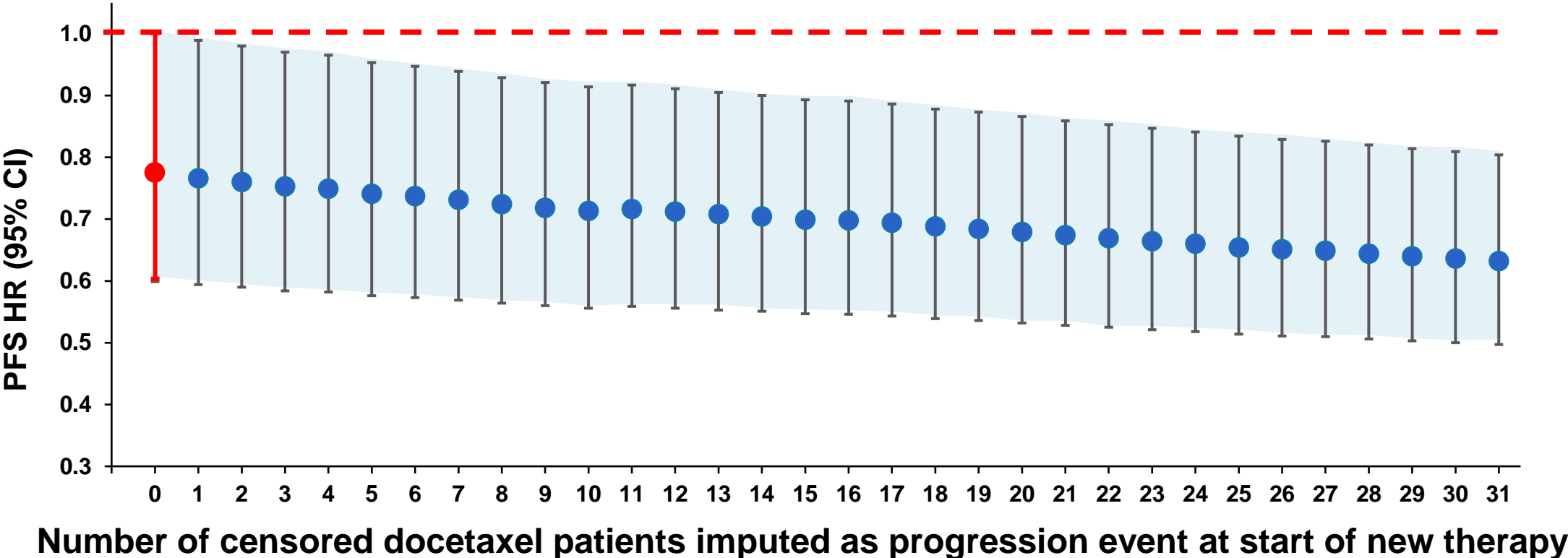
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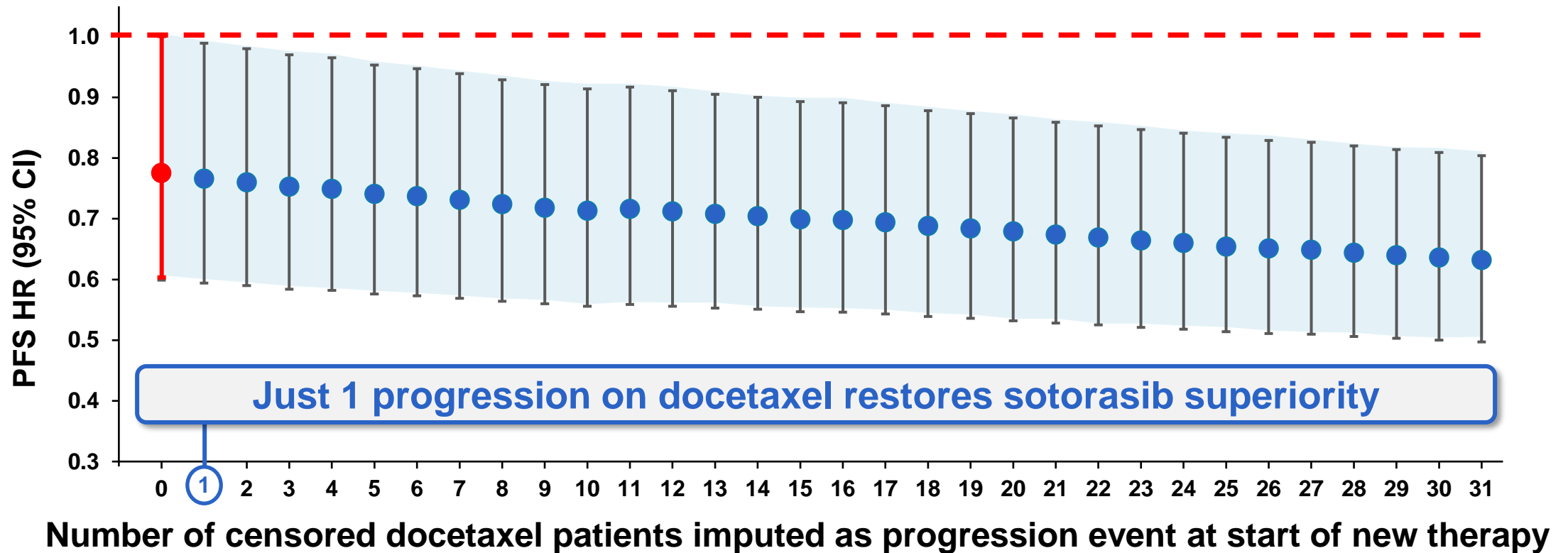
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Tipping Point Analysis: Therapy Switch Censoring and Early Dropout

Sotorasib (Assumes the Worst)

All 24 therapy switches called progression at switch and 2 untreated early dropouts called progression at randomization

Docetaxel (Assumes the Best)

All 31 therapy switches and 20 untreated early dropouts considered non-progressors and then called progression one by one

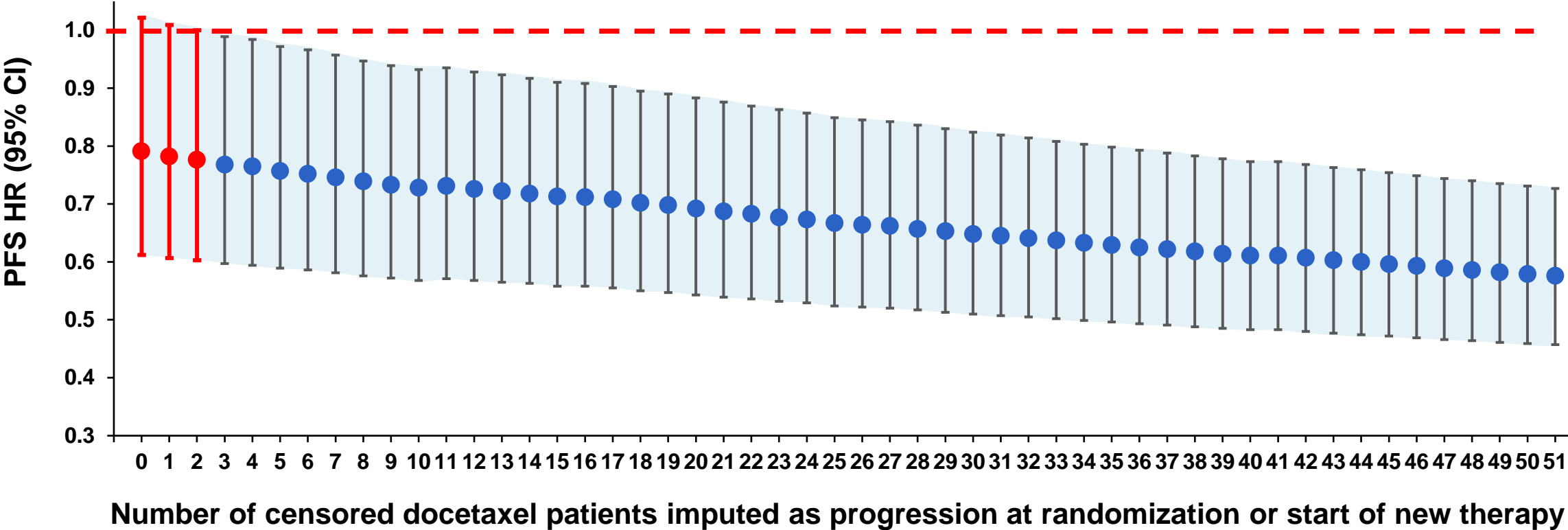
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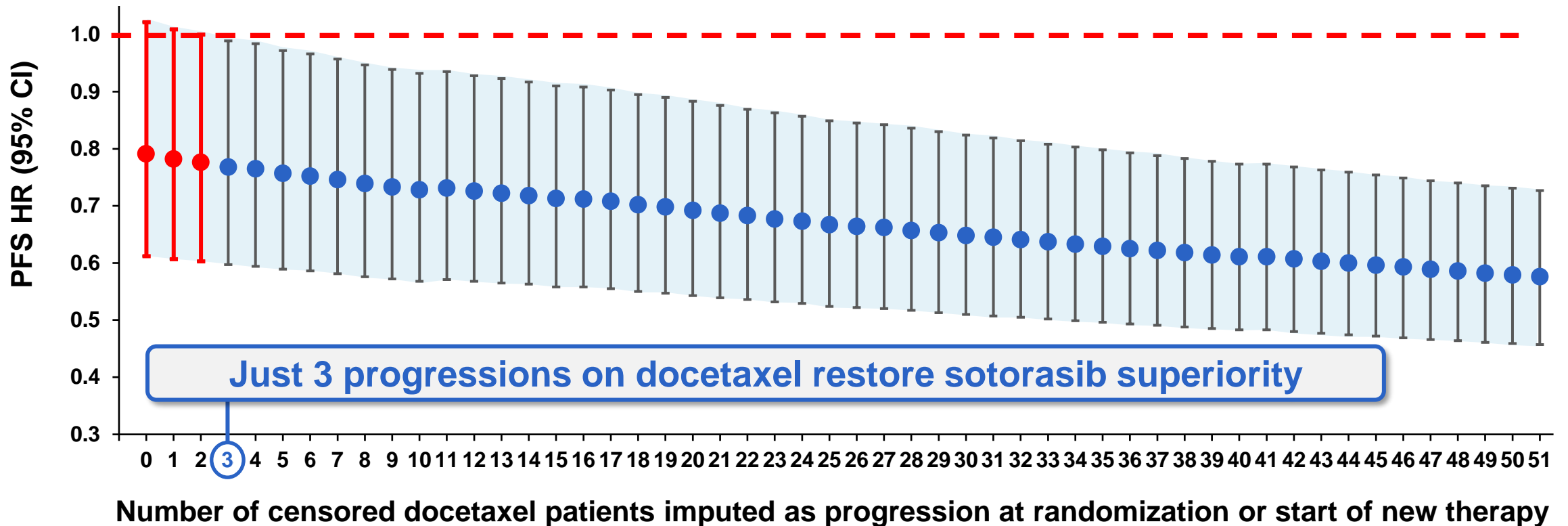
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All 31 therapy switches and 20 untreated early dropouts considered non-progressors and then called progression one by one



Just 3 progressions on docetaxel restore sotorasib superiority

CodeBreak 200 Results Consistent With Other Studies

			CodeBreak 200		Docetaxel CM 057 ¹ N=209	Docetaxel REVEL ² N=625	Docetaxel CONTACT-01 ³ N=180
	Sotorasib CB 100 N=126	Sotorasib Dose Comparison N=104	Sotorasib CB 200 N=171	Docetaxel CB 200 N=174			
ORR	37%	33%	28%	13%	12%	13.6%	13.3%
Median PFS	6.8 mo	5.4 mo	5.6 mo	4.5 mo	4.2 mo	3.0 mo	4.0 mo
Median OS	12.5 mo	13.0 mo	10.6 mo	11.3 mo	9.4 mo	9.1 mo	10.5 mo

CB=CodeBreak

1. Borghaei, H., et al. (2015). *The New England Journal of Medicine*, 373(17), 1627–1639.

2. Garon, E. B., et al. (2014) *Lancet* (London, England), 384(9944), 665–673.

3. Neal J, et al. (2023). European Lung Cancer Congress 2023, Abstract 60

Clinical Perspective

Melissa Johnson, MD

Director of Lung Cancer Research,
Sarah Cannon Research Institute



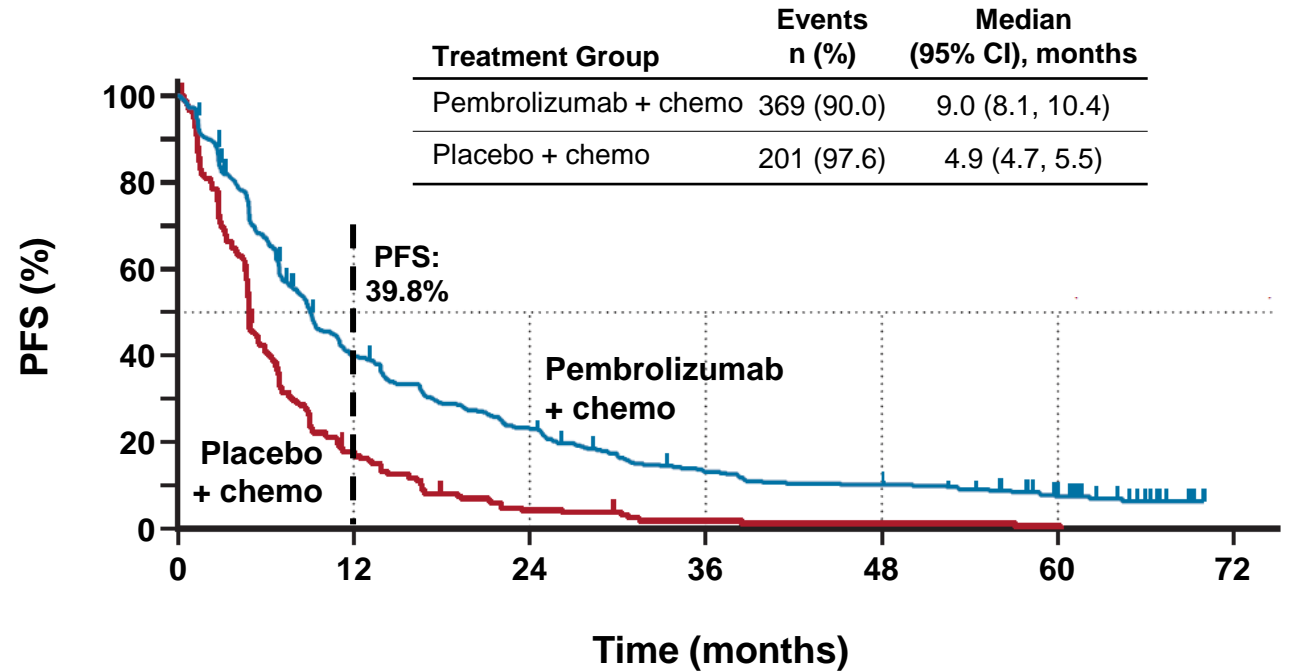
While Outcomes for Patients with Advanced NSCLC Have Improved, the Majority of Patients Progress on 1L Therapy Within a Year¹

- **ICI-based regimens have become the 1L SoC**
- **1 of 5 patients will be alive at five years**
- **Over 50% of patients progress after the first year, regardless of 1L therapy**

While Outcomes for Patients with Advanced NSCLC Have Improved, the Majority of Patients Progress on 1L Therapy Within a Year¹

- ICI-based regimens have become the 1L SoC
- 1 of 5 patients will be alive at five years
- Over 50% of patients progress after the first year, regardless of 1L therapy

KEYNOTE-189: Pembrolizumab + Chemotherapy in 1L mNSCLC¹



Second-Line Treatment Options for Immunotherapy-Experienced Patients Remain Limited

NCCN Recommended 2L Options¹ (ICI-exposed)

Docetaxel



60-70%
of 2L treatment²

Pemetrexed

Gemcitabine

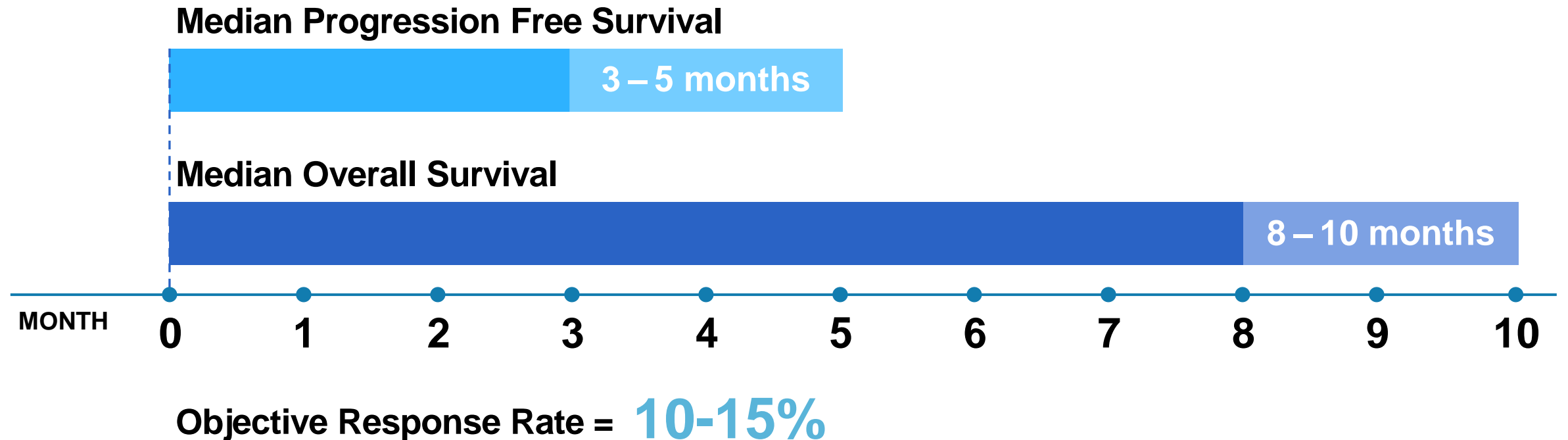
Ramucirumab/docetaxel

Albumin-bound paclitaxel

Chemotherapy remains the backbone of 2L NSCLC therapy in ICI-exposed patients with or without *KRAS p.G12C* mutations

Docetaxel is an Active Agent and Has Been SoC for 2L mNSCLC for >20 Years

Efficacy from Previous Trials with Docetaxel



Docetaxel Patient Experience Remains Suboptimal

- **Dosing and administration**
 - One-hour intravenous infusion
 - 75 mg/m², every 3 weeks
 - Dose reductions are common
 - 3 days of steroid administration is common



**FEBRILE
NEUTROPENIA**
Hospitalization risk



STOMATITIS



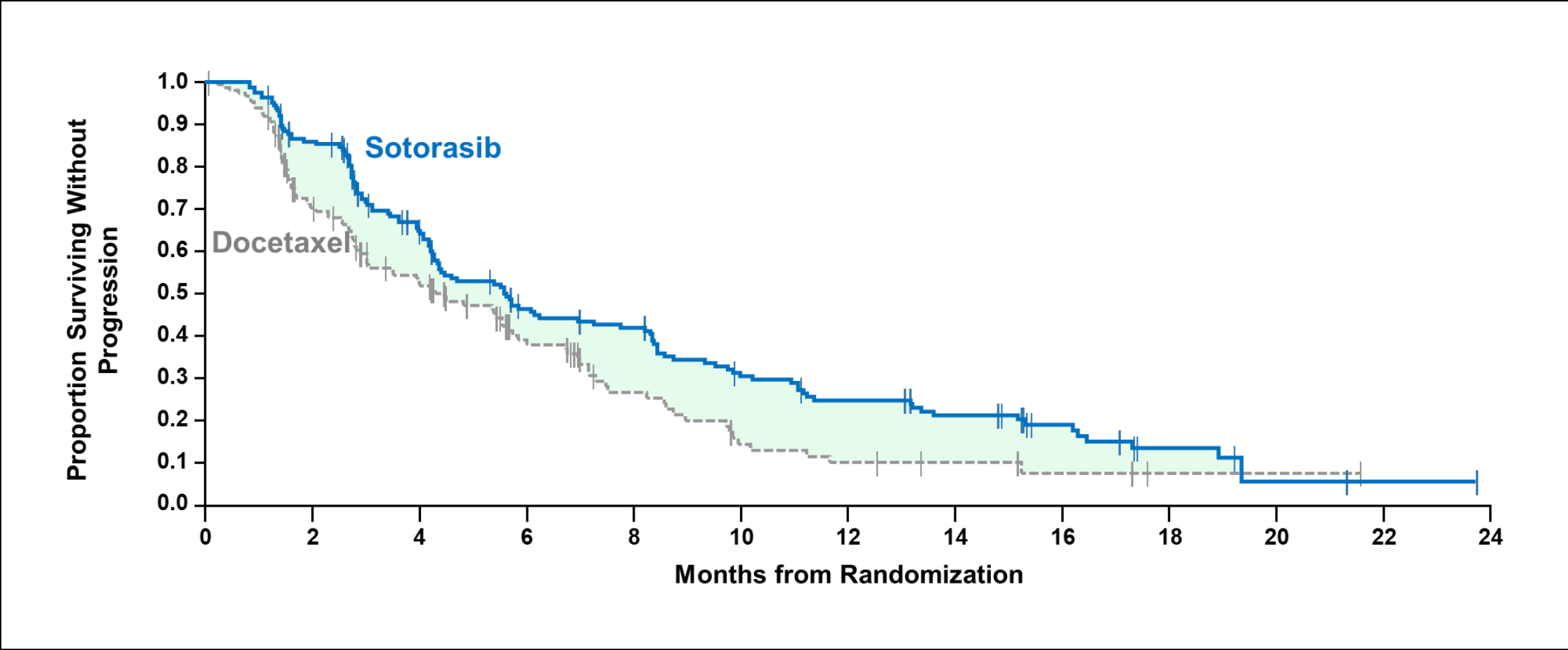
ALOPECIA



**NAIL
CHANGES**

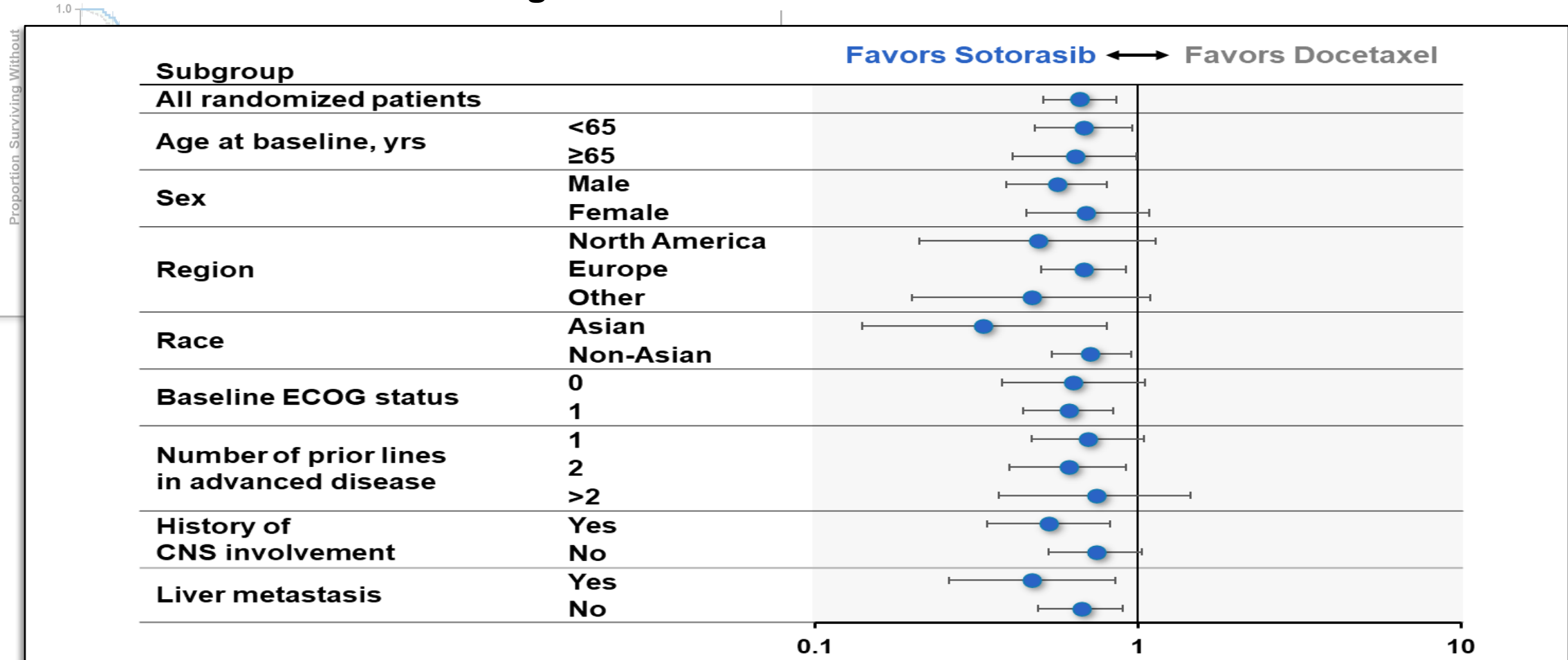
Sotorasib Demonstrated Meaningful Efficacy Benefits Compared to Docetaxel

Progression Free Survival



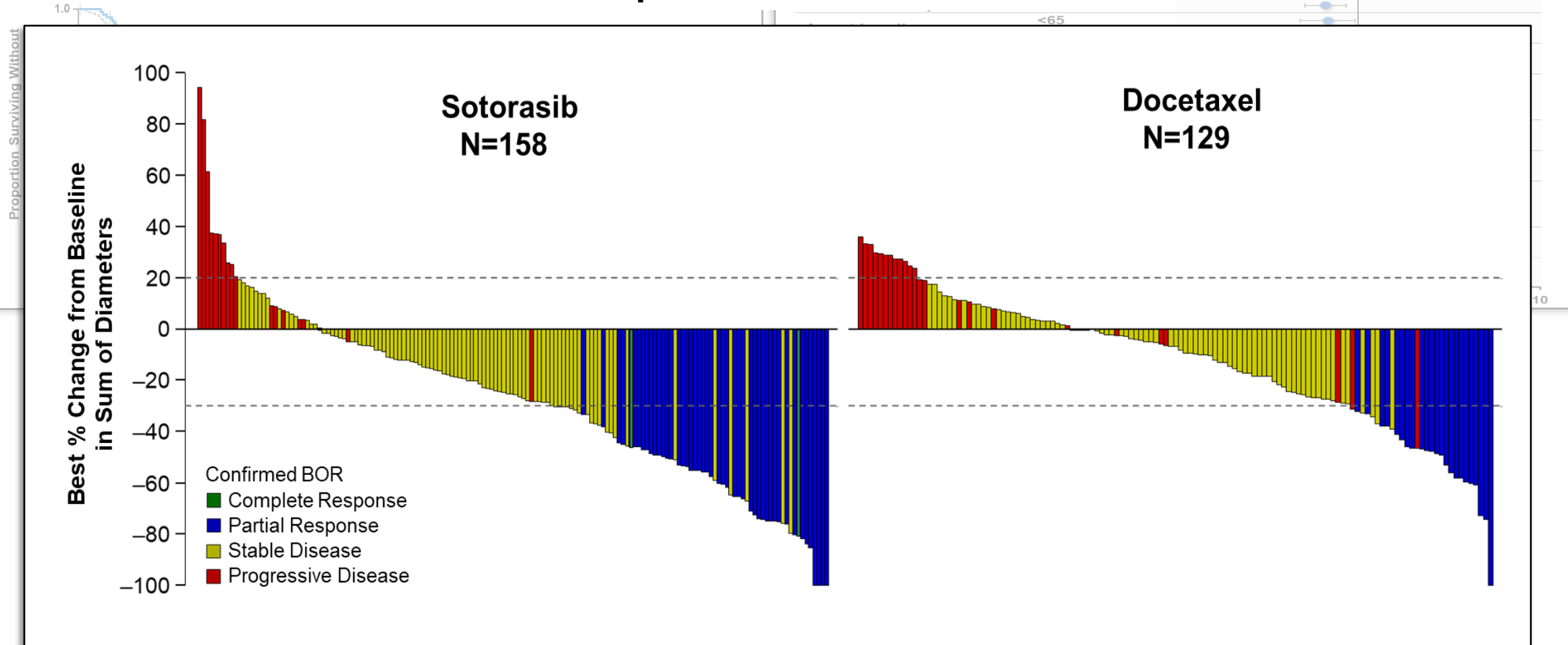
Sotorasib Demonstrated Meaningful Efficacy Benefits Compared to Docetaxel

Progression Free Survival Forest Plot



Sotorasib Demonstrated Meaningful Efficacy Benefits Compared to Docetaxel

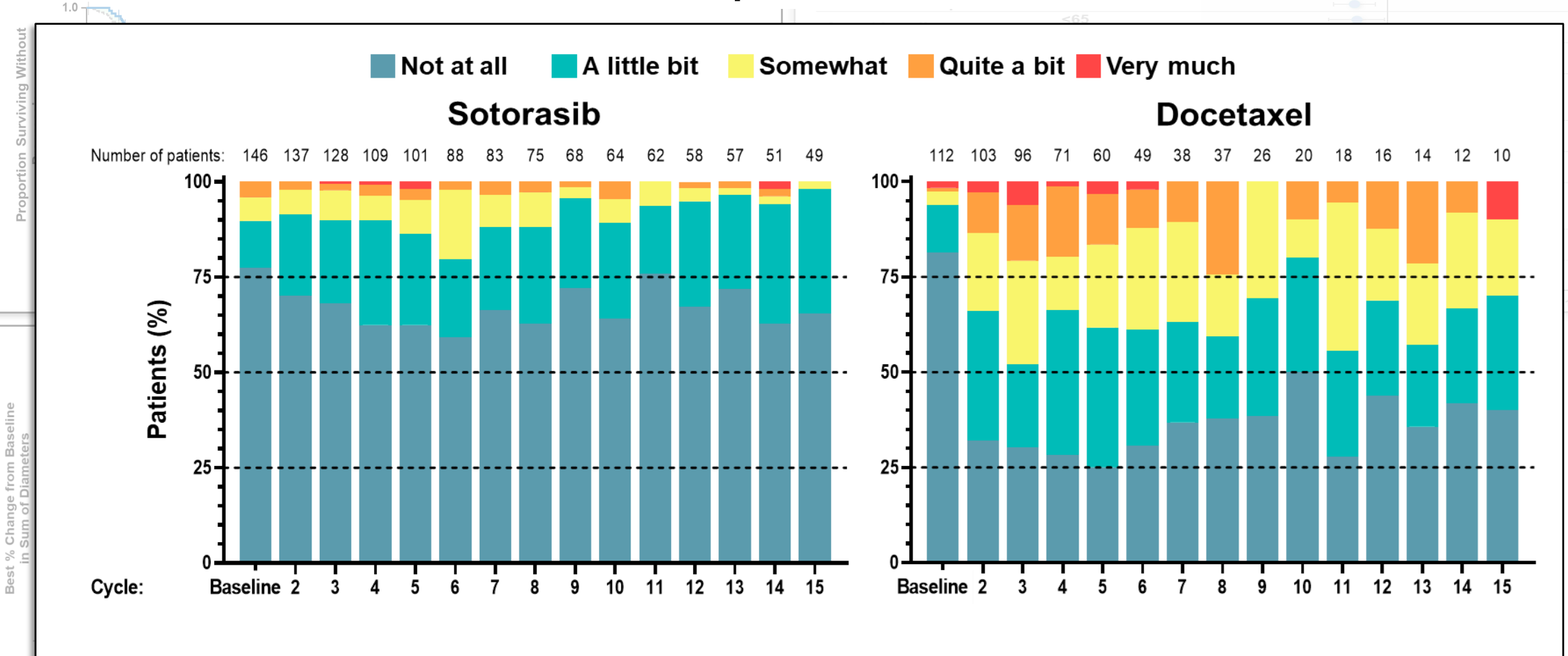
Response Waterfall Plot



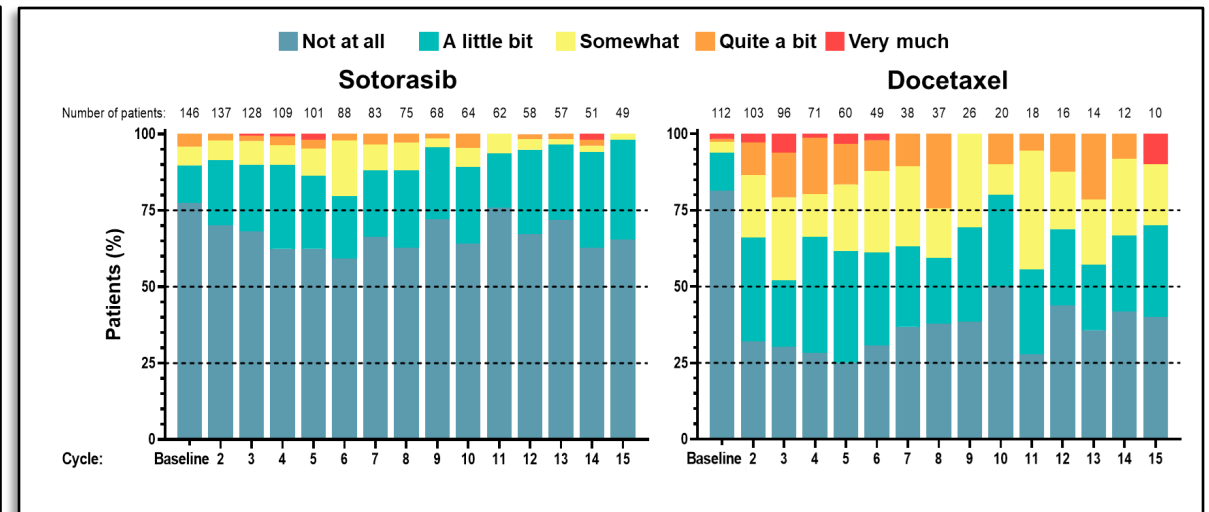
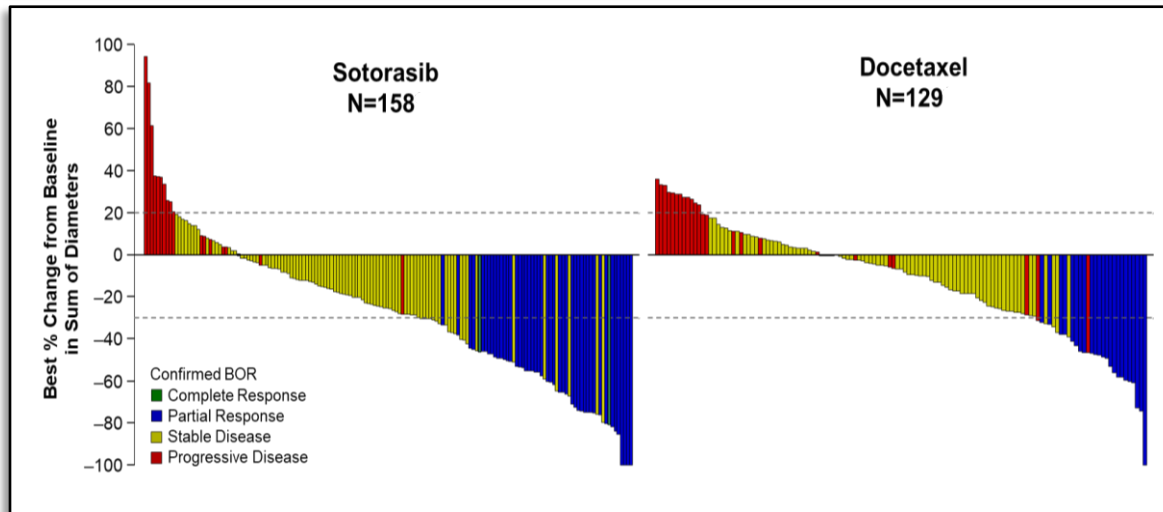
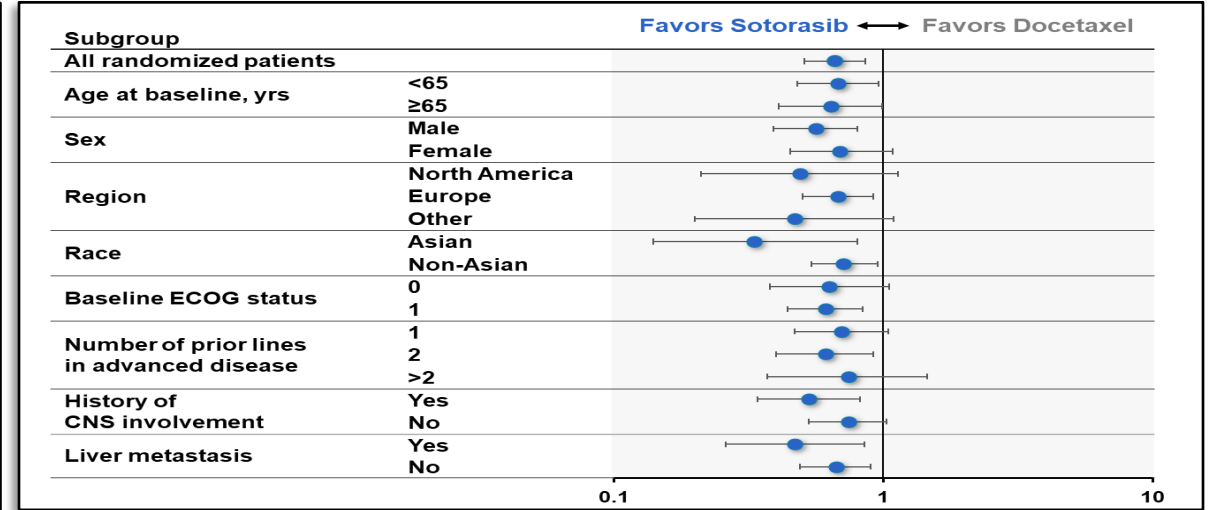
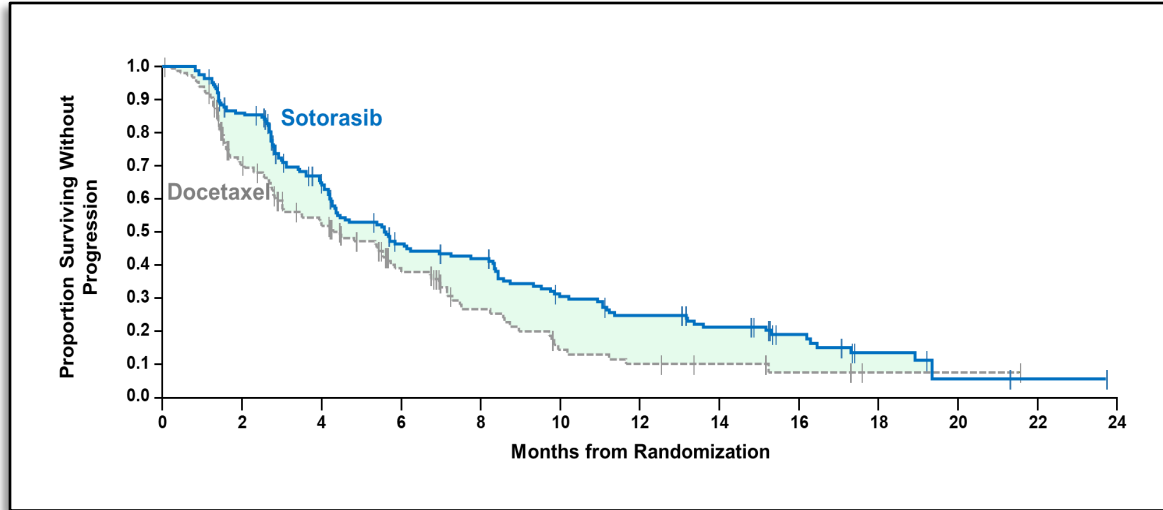
Sotorasib Demonstrated Meaningful Efficacy Benefits Compared to Docetaxel

Patient Reported Outcomes

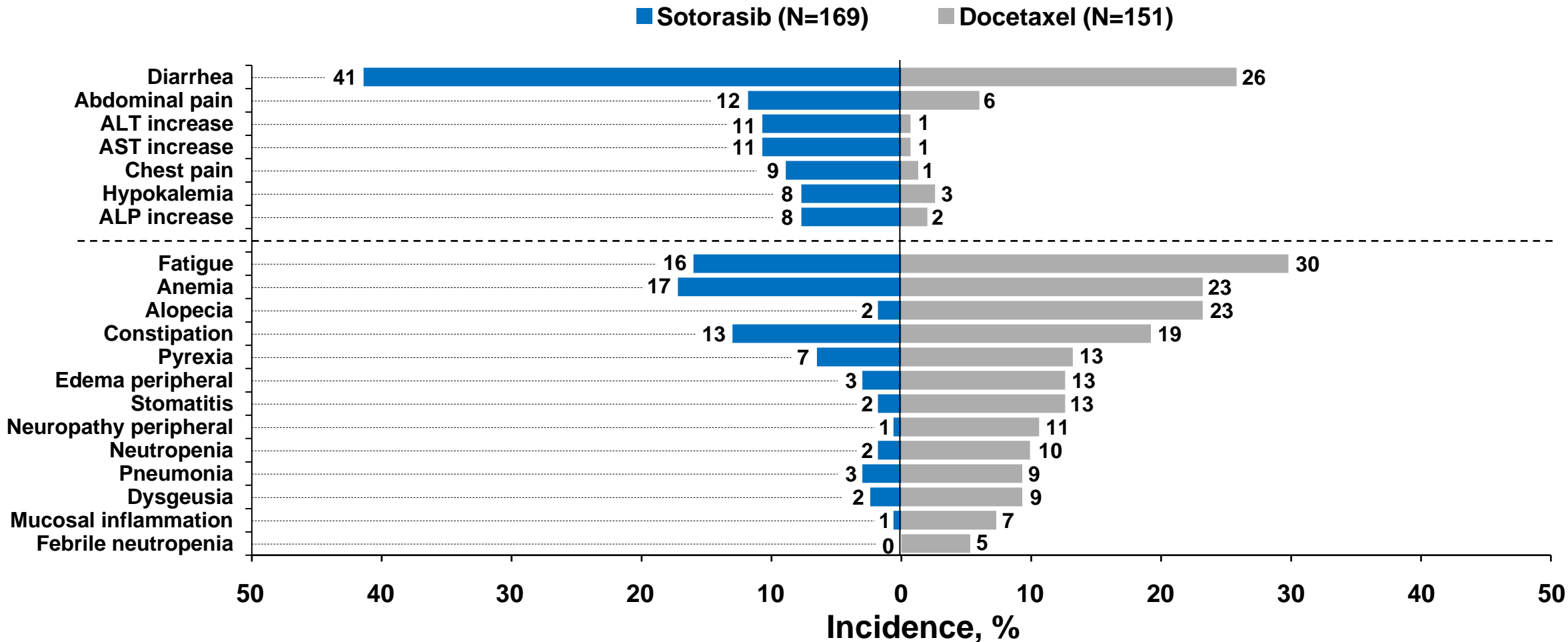
Favors Sotorasib ← → Favors Docetaxel



Sotorasib Demonstrated Meaningful Efficacy Benefits Compared to Docetaxel



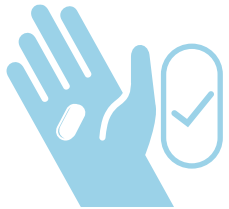
Sotorasib has an Established and Manageable Toxicity Profile



My Perspective

Considerations for second-line *KRAS p.G12C*-mutated NSCLC

**Oral
Dosing**



Efficacy



Safety



**Overall Patient
Experience**



**Sotorasib for the Treatment of Adult Patients with
KRAS p.G12C-mutated Locally Advanced or Metastatic
Non-Small Cell Lung Cancer (NSCLC)**

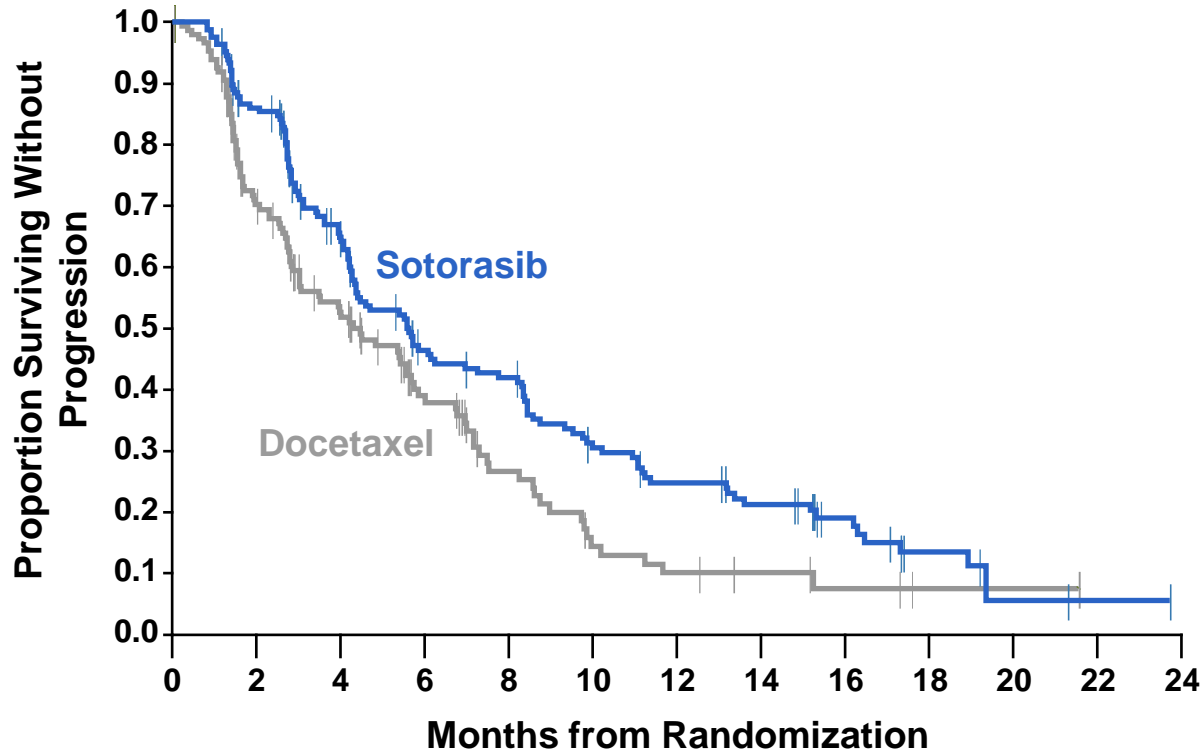
Oncologic Drugs Advisory Committee

October 5, 2023



Backup Slides Shown During Question and Answer

PFS by Blinded Central Review

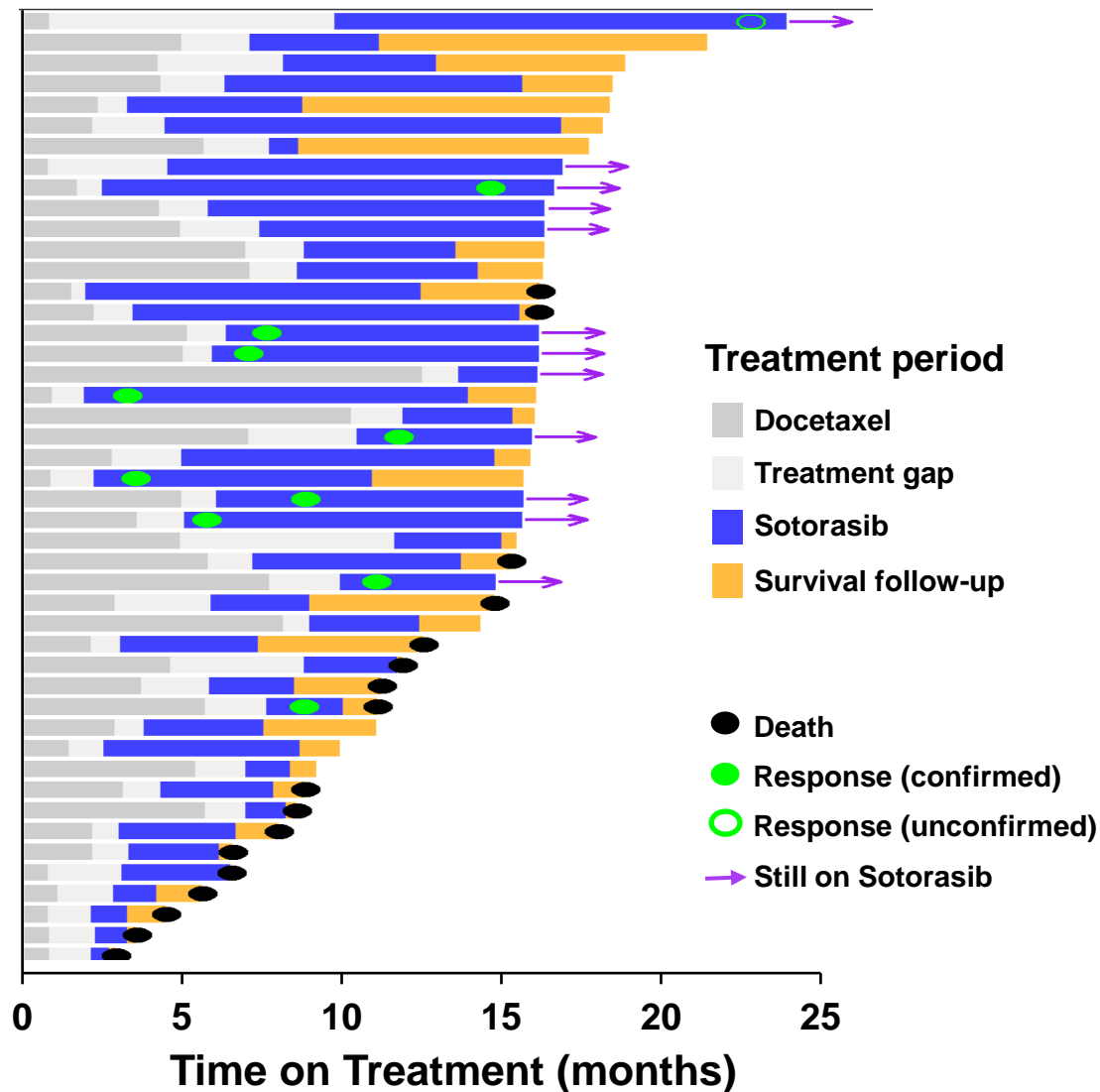


Number of Patients at Risk:

	0	2	4	6	8	10	12	14	16	18	20	22	24
Sotorasib	171	139	93	63	56	38	30	24	14	6	2	1	0
Docetaxel	174	93	62	36	20	10	7	5	3	1	1	0	0

	Sotorasib N=171	Docetaxel N=174	
Events, n (%)	122 (71.3)	101 (58.0)	
HR (95% CI)	0.66 (0.51, 0.86)		
<i>p</i> -value (2-sided)	0.003		
Median PFS (95% CI), months	5.6 (4.3, 7.8)	4.5 (3.0, 5.7)	
PFS rate (95% CI), %			Difference
At 3 months	71.7 (64.0, 78.1)	59.4 (50.7, 67.1)	12.3%
At 6 months	46.5 (38.3, 54.3)	39.1 (30.2, 47.8)	7.4%
At 9 months	34.4 (26.7, 42.2)	20.2 (12.5, 28.9)	14.4%
At 12 months	24.8 (17.9, 32.4)	10.1 (4.7, 18.0)	14.7%
At 15 months	21.3 (14.7, 28.7)	10.1 (4.7, 18.0)	11.2%
Percentile (95% CI), months			
75 th percentile	2.8 (2.7, 3.6)	1.6 (1.5, 2.5)	1.2 months
60 th percentile	4.2 (3.6, 5.4)	2.9 (2.3, 4.0)	1.3 months
50 th percentile	5.6 (4.3, 7.8)	4.5 (3.0, 5.7)	1.1 months
40 th percentile	8.3 (5.7, 9.8)	5.8 (4.5, 7.2)	2.5 months
25 th percentile	11.4 (9.8, 16.3)	8.6 (7.0, 9.9)	2.8 months

On-Protocol Crossover Subjects



On-Protocol Crossover Subjects N=46

Number of sites, countries	43 sites, 18 countries
Time on sotorasib (months)	
Median (range)	4.8 (0.6, 14.3)
Still on sotorasib, n (%)	12 (26)
Confirmed ORR post crossover, n (%)	10 (21)
Median DOR (95% CI), months	10.6 (2.1, NE)
ORR with unconfirmed response, n (%)	11 (23.9)
DCR post crossover, n (%)	35 (76.1)
Median OS since randomization (95% CI), months	NE (15.3-NE)

ORR, DOR post crossover is per investigator

PFS Sensitivity Analysis to Address Early Dropout in Docetaxel (Impute with Patients PFS ≥ 12 Weeks)

Imputation Results (Based on 20000 Simulations)

Imputed Subjects by Resampling	Average HR (95% CI)	Proportion of Times Imputations Showed PFS Superiority of Sotorasib
23 untreated in docetaxel	0.73 (0.57, 0.95)	83.9%

- For 23 docetaxel untreated and censored subjects, resampling was performed within treatment group and stratum who continued beyond 12 weeks without progression
- PFS superiority threshold is $p < 0.044$

Withdrawal Rates Across Open-Label Studies

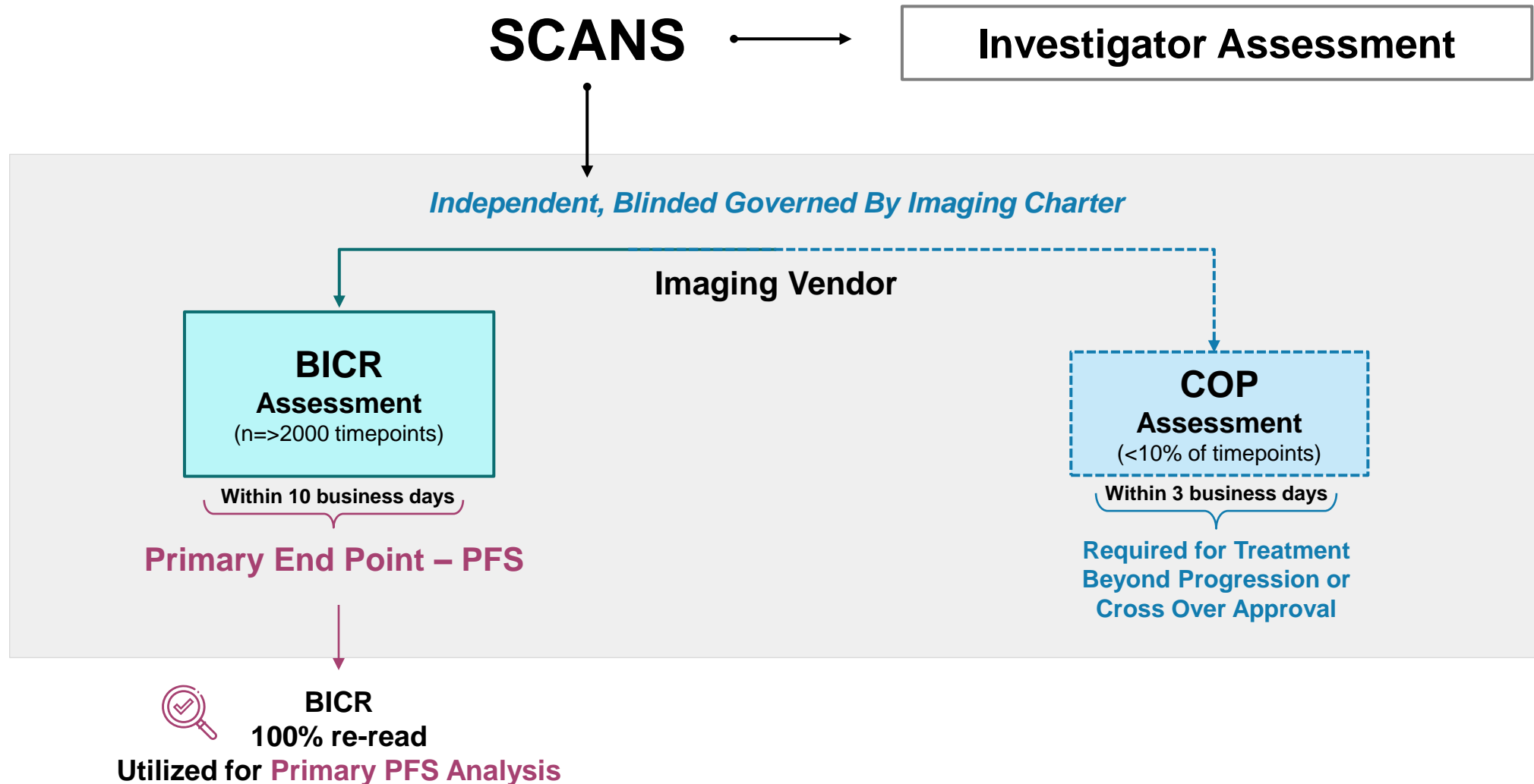
	CB200^a	KN010^b	CM057^c	Javelin Lung 200^d
Study drug	Sotorasib	Pembrolizumab	Nivolumab	Avelumab
Comparator	Docetaxel	Docetaxel	Docetaxel	Docetaxel
Design	Open	Open	Open	Open
Tumor	NSCLC	NSCLC	NSCLC	NSCLC
Start Date	June 4, 2020	Aug 28, 2013	Nov 2012	March 24, 2015
Withdrawal prior to study drug	Doce: 13%	Doce: 10%	Doce: 8%	Doce: 8%
	Soto: 1%	Pembro: 1%	Nivo: 1.7%	Avelu: <1%
Withdrawal after study drug start	Doce: 7%	Doce: 14%	Doce: 8%	Doce: 7%
	Soto: 4%	Pembro: 3%	Nivo: 3%	Avelu: 3%

a. de Langen et al, *Lancet* 2023; 401: 733-46.; b. Herbst et al, *Lancet* 2016; 387: 1540-50.; c. Borghaei et al, *N Engl J Med* 2015; 373: 1627-39

d. Barlesi et al, *Lancet Oncol* 2018; 19: 1468-79

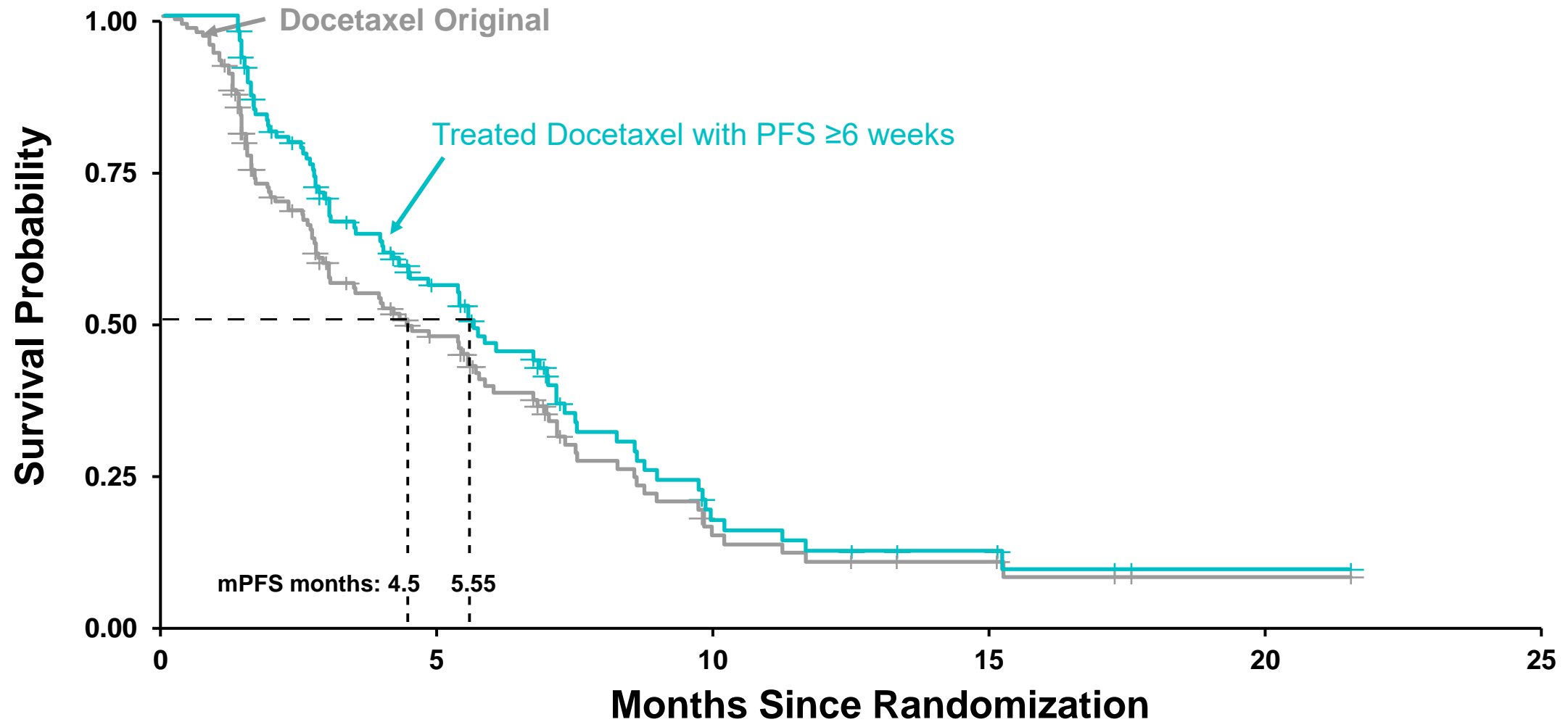
Imaging Evaluation Pathway

Confirmation of Progression Procedure in CB200



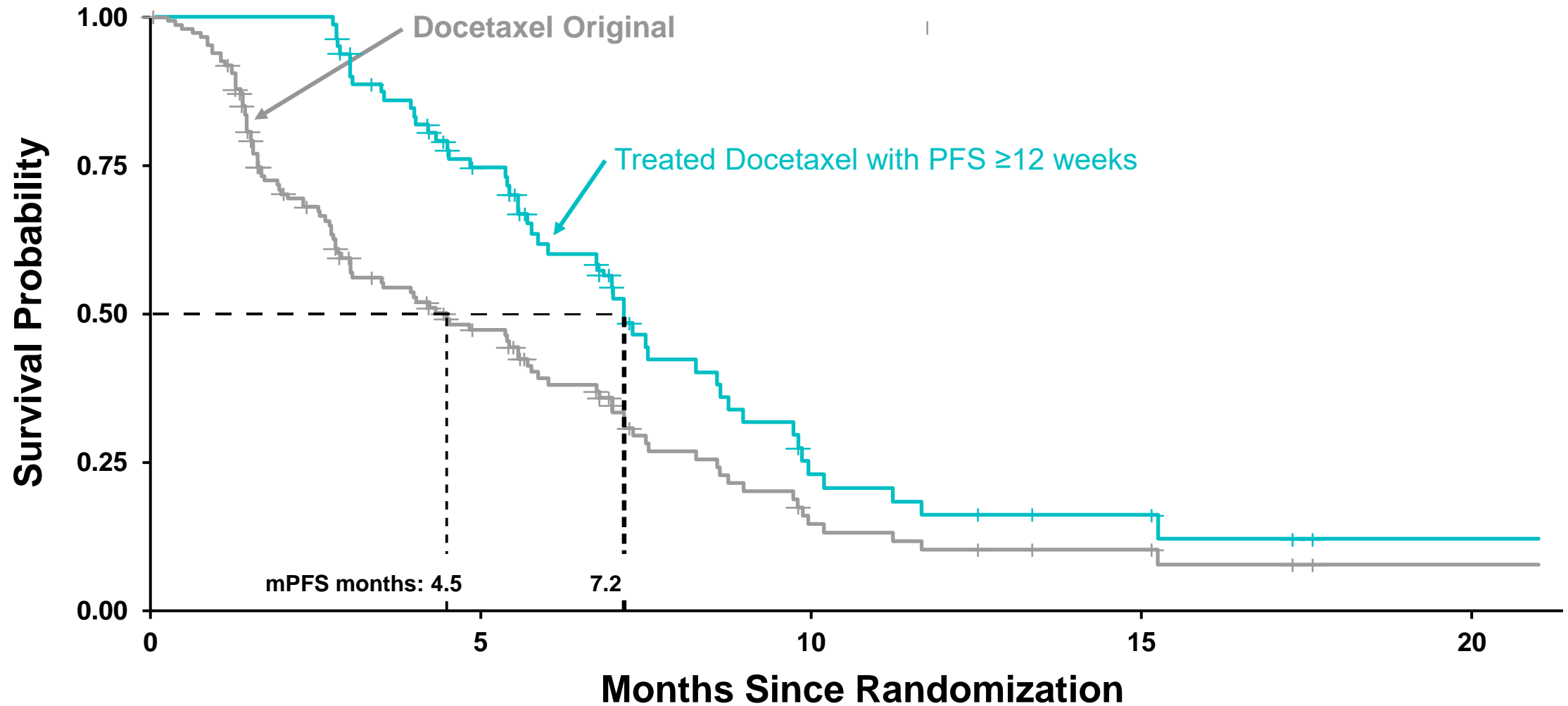
Basis of Amgen Imputation:

Docetaxel Treated Subset With PFS ≥ 6 Weeks



Basis of Amgen Imputation:

Docetaxel Treated Subset With PFS ≥ 12 Weeks



OS Restricted Mean Survival Time (RMST)

CodeBreak 200 at 90 Day Update

RMST up to	Sotorasib (months)	Docetaxel (months)	Difference (95%CI) (months)	Average RMST Difference/ Duration of Follow-up (95% CI)
22 months	12.33	12.19	0.14 (-1.59, 1.87)	0.6% (-7.2%, 8.5%)
24 months	12.87	12.71	0.17 (-1.71, 2.05)	0.7% (-7.1%, 8.5%)

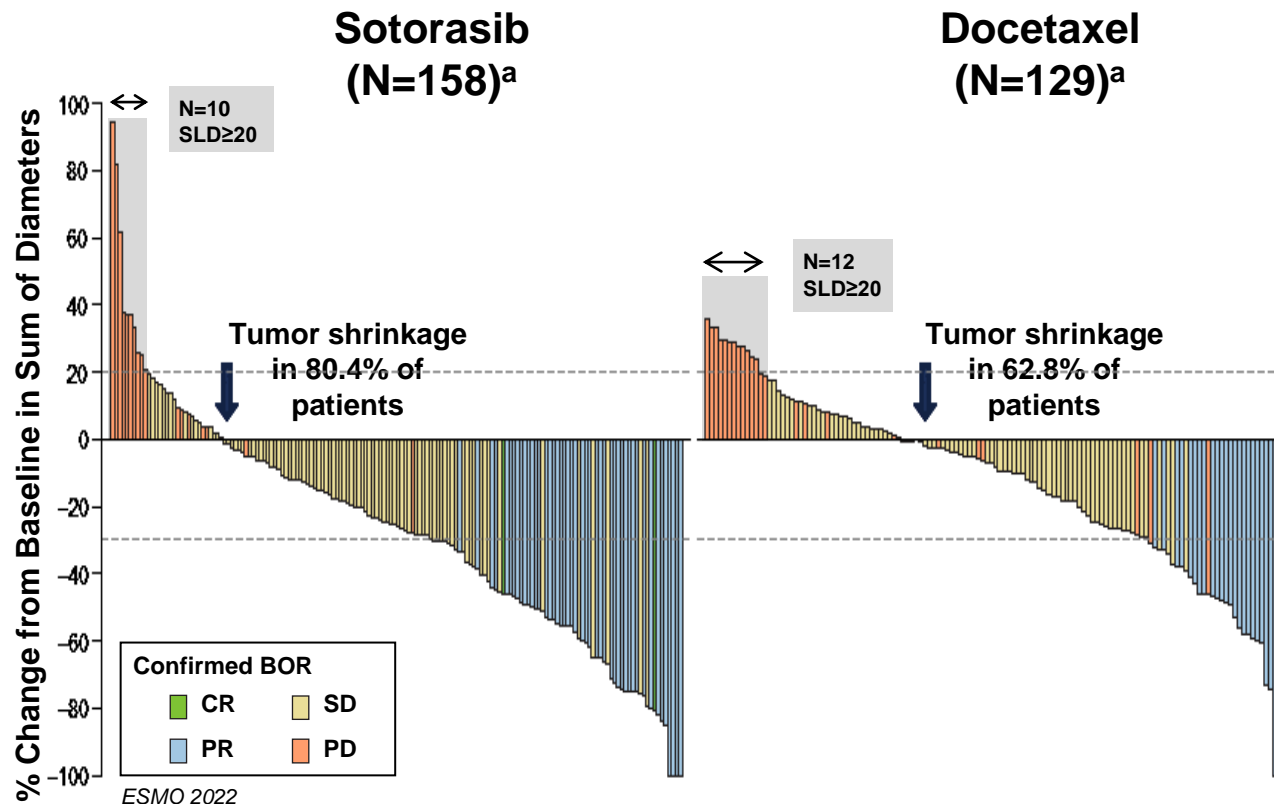
At 22-24 months, 9%-16% patients remained at risk

With 24 months of OS follow up, the average survival time is 0.17m longer and the average OS rate is 0.7% higher for sotorasib compared to docetaxel.

No Significant Enrichment of Co-alterations in Small Set of Subjects with Tumor SLD Change $\geq 20\%$ in Either the Sotorasib/Docetaxel Arm

Comparison of patients with/without SLD20 $\geq 20\%$ to assess if a genomic feature is associated with lack of response and tumor growth in the presence of sotorasib/docetaxel

Caveat: small sample size and multiple testing limits interpretation



Arm	Number of Subjects			
	SLD ≥ 20 (yes)	SLD ≥ 20 (no)	Biomarker Evaluable SLD ≥ 20 (yes)	Biomarker Evaluable SLD ≥ 20 (no)
Sotorasib	10	148	6 (tissue) 8 (plasma)	105 (tissue) 137 (plasma)
Docetaxel	12	117	5 (tissue) 12 (plasma)	79 (tissue) 103 (plasma)

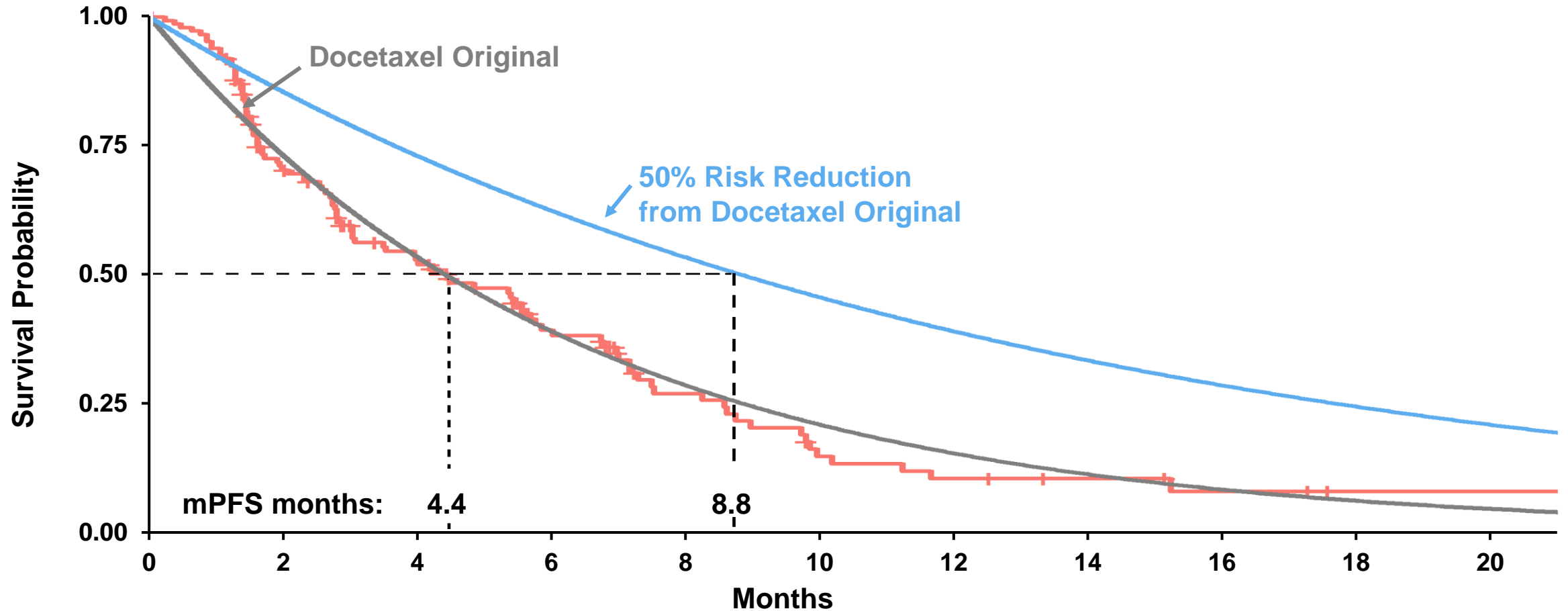
After false discovery rate correction to account for multiple testing

Tempus 648 gene xT panel for tissue, Resolution Bioscience ctDx Lung 23 gene panel for plasma

a. Patients without baseline target lesions or post-baseline percent changes, or with BOR of NE are not shown; † Median of best percent change from baseline in sum of diameters for confirmed responders;

Basis of FDA Tipping Point Analysis

Risk of Event 50% Lower Than Other Patients in Docetaxel



Target Lesion Percent Changes in Docetaxel Patients Who Crossed-over Early

% Change in Lesion Size		
Patient	Reader 1	Reader 2
1	-16.5	-1.9
2	-10.5	5.5
3	-10.5	4.5
4	-7.1	2.0
5	-6.3	19.2
6	-3.0	9.9
7	-2.2	2.3
8	-1.1	-5.7
9	-0.1	9.7
10	0.0	-9.7

% Change in Lesion Size		
Patient	Reader 1	Reader 2
11	1.4	25.1
12	2.2	16.4
13	3.7	6.0
14	4.6	36.1
15	6.9	-2.7
16	9.5	0.6
17	10.2	14.2
18	18.5	21.6
19	missing	