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RBX2660 for Reduction of Recurrence of Clostridioides difficile Infection

September 22, 2022

Rebiotix Inc., a Ferring Company

Vaccines and Related Biological Products Advisory Committee

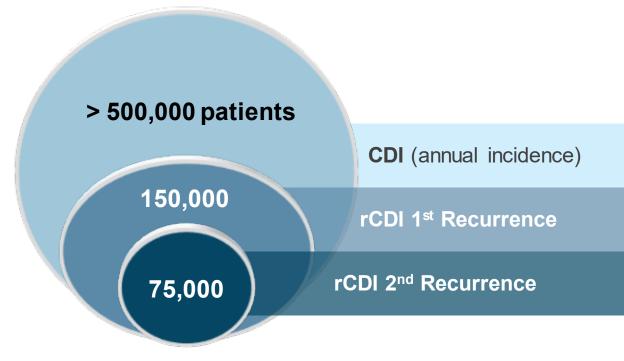


Introduction Lee Jones

Founder, Past President, and CEO Rebiotix Inc, a Ferring Company

Recurrent *Clostridioides difficile* Infection (rCDI): Rare, Serious, and Potentially Life-Threatening Infection

- C. difficile infection (CDI)
 - Declared urgent antibiotic resistant threat by CDC¹
 - Most common cause of healthcare-associated infections¹
 - Results in severe diarrhea, colitis, and potentially sepsis
- Antibiotics SOC for CDI and rCDI
 - 30% 1st recurrence²
 - 50% 2nd recurrence³
- Antibiotics contribute to ongoing gut microbiota disruption (dysbiosis)



Microbiota Restoration is a Well Recognized Platform

- Unapproved fecal microbiota transplantation (FMT) often used to treat rCDI due to patient need for effective therapy
 - No FDA-approved microbiome restoration therapies
 - Access to FMT remains limited
 - Variable donor screening and product manufacturing demonstrated risks
- Need a scalable, accessible, regulated product to solve unmet need

RBX2660 developed to standardize microbiota restoration

RBX2660: Intestinal Fecal Microbiota Suspension that is Standardized, Stabilized, and Quality Controlled

- Standardized for potency with controlled formula
- Stabilized for extended shelf life

Pre-packaged single-dose: 150 mL microbiota suspension from individual burgen steel depotion

individual human stool donation

Fast Track, Breakthrough, Orphan Drug designations

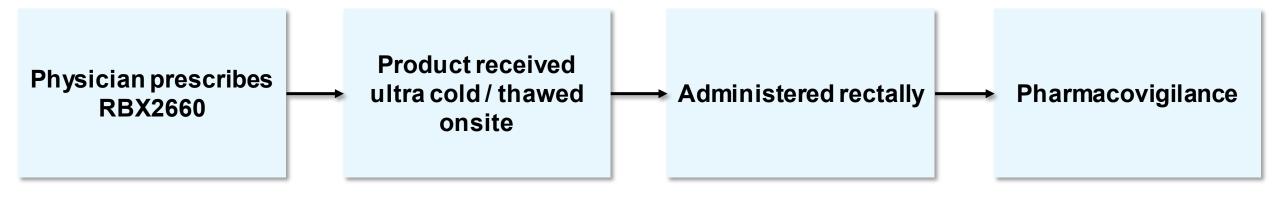


RBX2660: Oversight Throughout Product Lifecycle





Administration and Surveillance



RBX2660 Standardization is Achieved through Stringent Donor Screening and Controlled Manufacturing Processes

Donor Screening

Initial and ongoing blood screening every 6-8 weeks

Initial COVID and ongoing screening every 14 days

Health Questionnaire

Initial health and behavior questionnaire

Questionnaire completion at every donation

Donation Testing

29 stool pathogens testing every donation

Provides safe product with no reports of disease transmission

Manufacturing and Quality Controls

RBX2660 Clinical Development Program

Phase 2 (Open-Label)	Study 2013-001 (1 or 2 doses)		
Phase 2 (RCT)	Study 2014-01 (1 or 2 doses)		
Phase 2 (Open-Label)	Study 2015-01 (2 doses)		
Pivotal Phase 3 (RCT)	Study 2017-01 (1 dose)		
Phase 3 (Open-Label)	Study 2019-01 (1 dose)		
Retrospective	Study 2019-02 (1 or 2 doses)		

RBX2660 Proposed Indication

To reduce the recurrence of *Clostridioides difficile* infection (CDI) in adults following antibiotic treatment for recurrent *Clostridioides difficile* infection

Agenda

Unmet Need

Sahil Khanna, MBBS, MS

Professor of Medicine, Division of Gastroenterology and Hepatology Mayo Clinic

Efficacy

Lindy Bancke, PharmD

Head of Clinical Development Rebiotix Inc., a Ferring Company

Safety

Jonas Pettersson, MD, PhD

Senior Medical Director Ferring Pharmaceuticals

Clinical Perspective

Colleen Kraft, MD, MSC, FIDSA

Professor, Medicine/Division of Infectious Diseases Associate Chief Medical Officer Emory University

Additional Experts

Scott Berry, PhD

President, Senior Statistical Scientist Berry Consultants

Ken Blount, PhD

Chief Scientific Officer Rebiotix Inc., a Ferring Company

Greg Fluet

Chief Operating Officer and Site Head Rebiotix Inc., a Ferring Company

Karen Kuphal, PhD, MBA, PMP

Head of Regulatory Affairs Rebiotix Inc., a Ferring Company



Effective Management of *C. difficile*An Unmet Clinical Need

Sahil Khanna, MBBS, MS

Professor of Medicine

Division of Gastroenterology and Hepatology

C. difficile Clinic and Microbiome Restoration Program

Mayo Clinic

Rochester, MN

Clostridioides difficile: A Serious Infection

~ 500,000 people with CDI in US each year

■ ~ 30,000 deaths annually

Risk factors for CDI

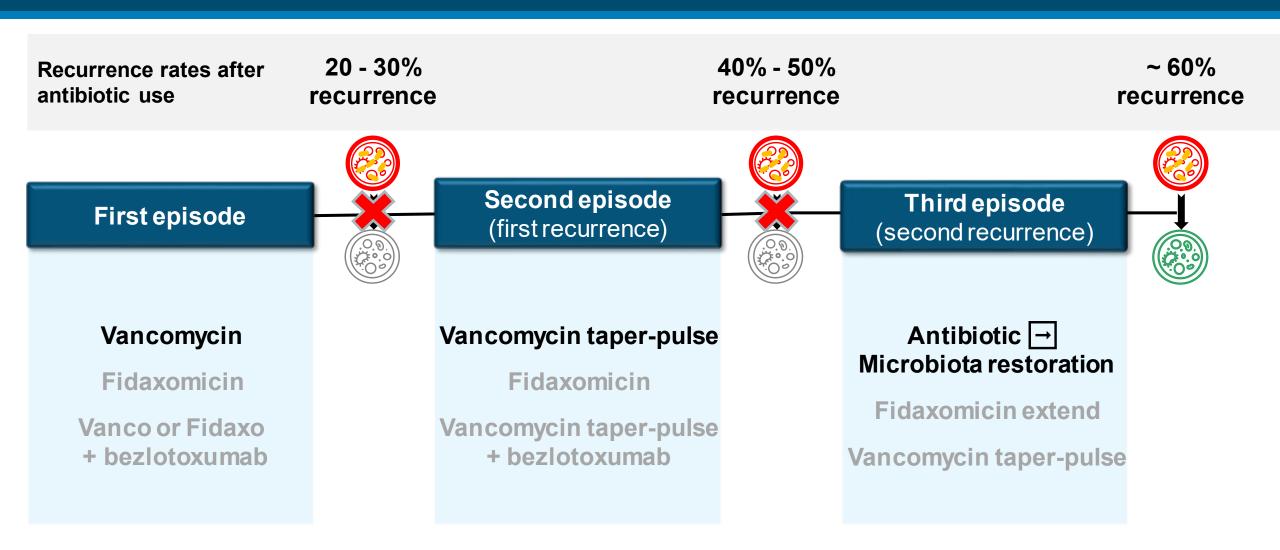
- Antibiotics
- Proton pump inhibitors
- Previous *C. difficile*
- Healthcare exposure
- Age > 65 years
- Comorbidities: Immunosuppressed state, malignancy, kidney disease, inflammatory bowel disease

C. difficile: A Serious Infection with High Morbidity

Debilitating diarrhea Severe abdominal pain Weight loss Hospitalization **Anxiety** Social isolation

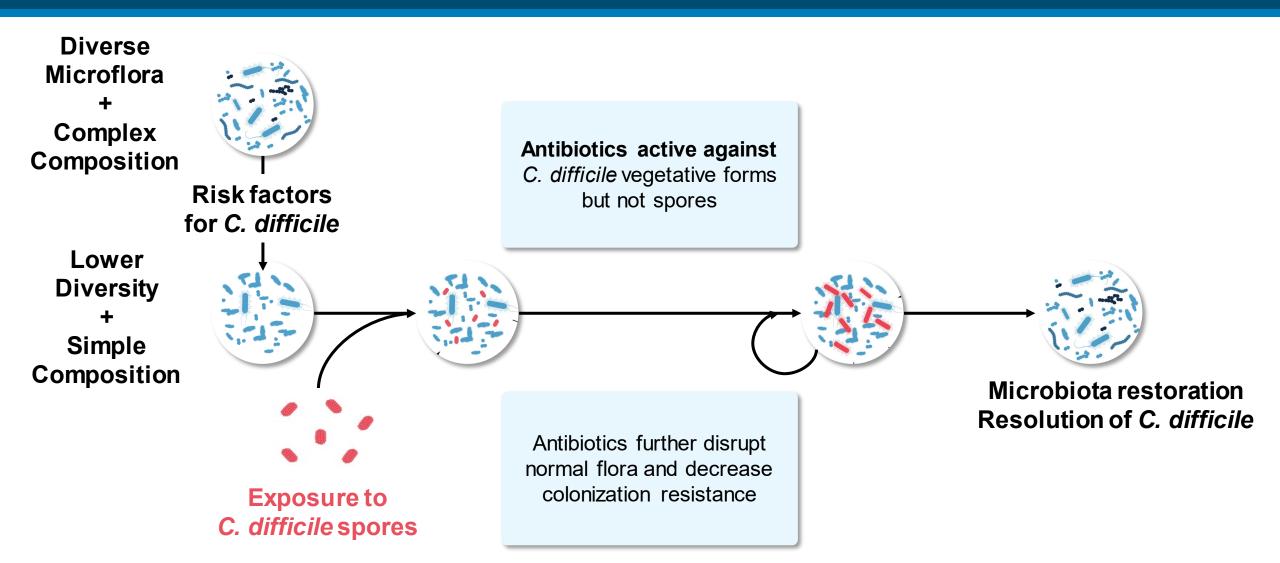
1. Guh et al., 2020; 2. Khanna, 2021

Current Treatment Landscape of C. difficile

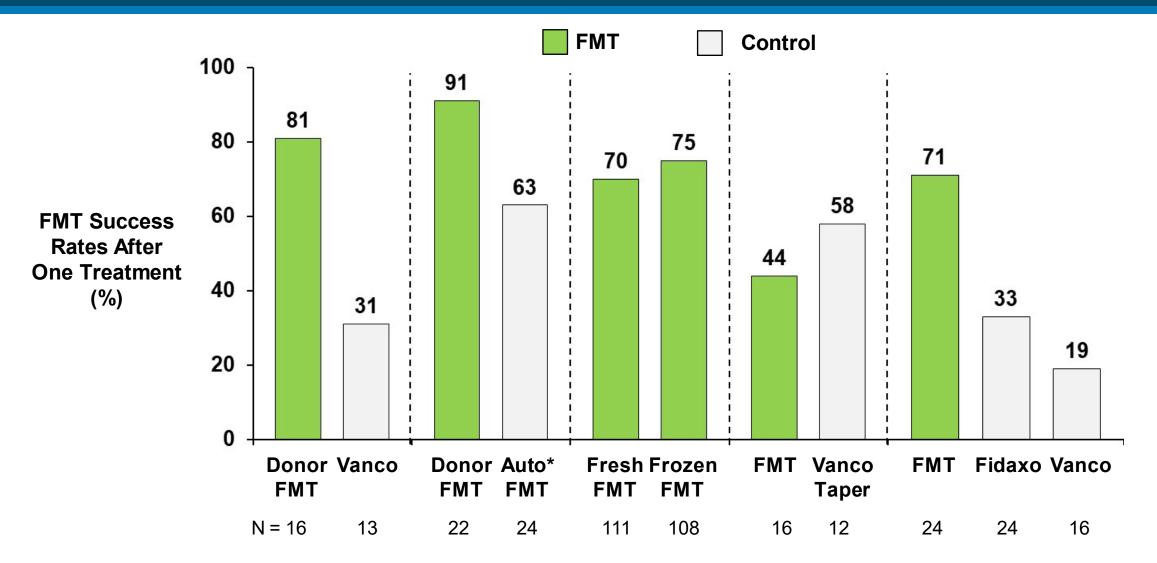


1. Johnson et al., 2021; 2. Kelly et al., 2021; 3. Hopkins and Wilson, 2018.

Prevent Recurrences: Restore the Microbiome



Demand for FMT Increasing Due to Success Rates Observed in Mostly Small Randomized Control Trials



*Autologous

^{1.} Van Nood et al., 2013; 2. Kelly et al., 2016; 3. Lee et al., 2016; 4. Hota et al., 2017; 5. Hvas et al., 2019

Clinical Practice Guidelines Recommend FMT for Patients with rCDI

As a reminder, FMT is recommended only for patients with multiple recurrences of CDI who have failed appropriate antibiotic treatments and where appropriate screening of donor and donor fecal specimens has been performed, in accordance with these newer FDA recommendations.

Clinical Infectious Diseases

IDSA GUIDELINES





Clinical Practice Guideline by the Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America (SHEA): 2021 Focused Update Guidelines on Management of *Clostridioides difficile* Infection in Adults

Stuart Johnson, 12 Valéry Lavergne, 34 Andrew M. Skinner, 12 Anne J. Gonzales-Luna, 5 Kevin W. Garey, 5 Ciaran P. Kelly, 6 and Mark H. Wilcox 7

¹Department of Research and Medical Medical Microbiology and Infection (of Pharmacy Practice and Translation Medical School, Boston, Massachuse Kingdom

ACG Clinical Guidelines: Prevention, Diagnosis, and Treatment of Clostridioides difficile Infections

Kelly, Colleen R. MD, AGAF, FACG¹; Fischer, Monika MD, MSc, AGAF, FACG²; Allegretti, Jessica R. MD, MPH, FACG³; LaPlante, Kerry PharmD, FCCP, FIDSA⁴; Stewart, David B. MD, FACS, FASCRS⁵; Limketkai, Berkeley N. MD, PhD, FACG (GRADE Methodologist)⁶; Stollman, Neil H. MD, FACG⁷

Author Information ⊗

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Unapproved FMT Comes with Safety Concerns Due to Lack of Standardization and Regulation

Consistent Screening Needed

Health and infection screening

Stool tests for donors

- Enteric pathogens, viruses, parasites
- Multi-drug resistant organisms

Blood tests for transmissible infections

HIV, viral Hepatitis, syphilis, others

Emerging pathogens

SARS-CoV-2

Multidrug resistant organism transmission ESBL-producing *E. coli* SAEs due to transmission of infectious agents from asymptomatic donors EPEC and STEC **FDA Alerts** COVID-19 **Monkeypox**

Clear Benefits of A Regulated, FDA Approved Microbiome Restoration Therapy

Well-studied, consistent process to product

Established, positive benefit-risk profile

Approval of a standardized product

- Reduce variability and heterogeneity of the processes and preparation
- Uniform and iterative donor screening to improve safety outcomes
- Improve access for patients

Address the cycle of CDI recurrence



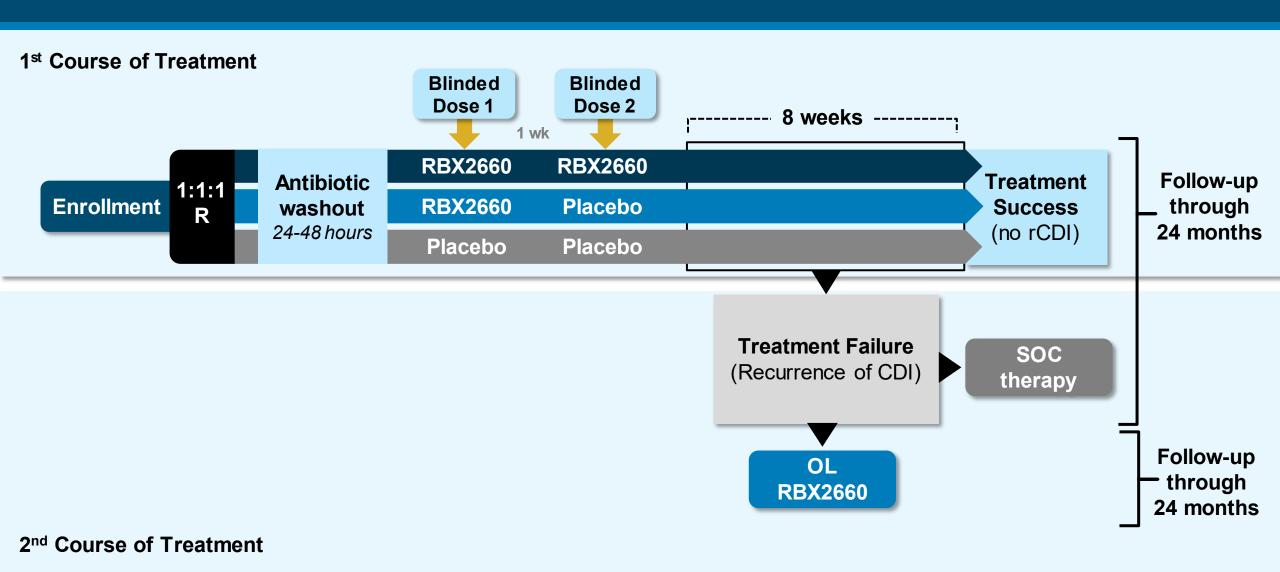
Efficacy
Lindy Bancke, PharmD
Head of Clinical Development
Rebiotix Inc, a Ferring Company

RBX2660 Clinical Development Program

Efficacy Evaluable Population

Dhana 2		Cturely 2012 001 (1 an 2 deces)
Phase 2 (Open-Label)	Feasibility and safety	Study 2013-001 (1 or 2 doses) N = 32
Phase 2 (RCT)	Identify treatment regimen for Phase 3 RCT	Study 2014-01 (1 or 2 doses) N = 133
Phase 2 (Open-Label)	Supportive evidence of efficacy and safety	Study 2015-01 (2 doses) N = 142
Pivotal Phase 3 (RCT)	Demonstrate substantial evidence of effectiveness	Study 2017-01 (1 dose) N = 262
Phase 3 (Open-Label)	Supportive evidence of efficacy and safety	Study 2019-01 (1 dose) N = 402
Retrospective	Supportive evidence of efficacy and safety	Study 2019-02 (1 or 2 doses) N = 64

Study 2014-01: Design



Study 2014-01: Key Inclusion and Exclusion Criteria

Inclusion criteria

- ≥ 18 years old
- ≥ 2 episodes of recurrent CDI after primary CDI and ≥ 2 rounds SOC antibiotics

<u>OR</u>

≥ 2 episodes of severe CDI resulting in hospitalization

Exclusion criteria

- History of IBD (ulcerative colitis, Crohn's disease, microscopic colitis), IBS, chronic diarrhea, celiac disease
- Previous fecal transplant

Study 2014-01: Primary Endpoint Selection

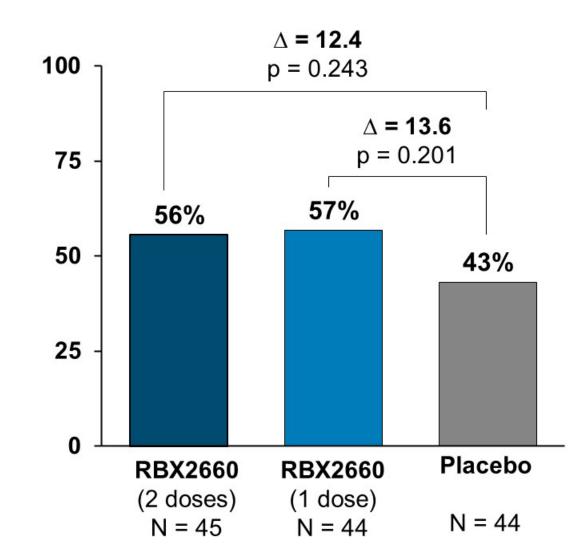
	Description
Primary Endpoint	
Treatment Success	Absence of CDI diarrhea for 8 weeks after study treatment
Primary Analysis Population	
	All randomized patients
Intent-to-treat (ITT)	 Discontinuations prior to 8 weeks were considered failures

Study 2014-01: Baseline Demographics and Medical Characteristics Balanced (ITT)

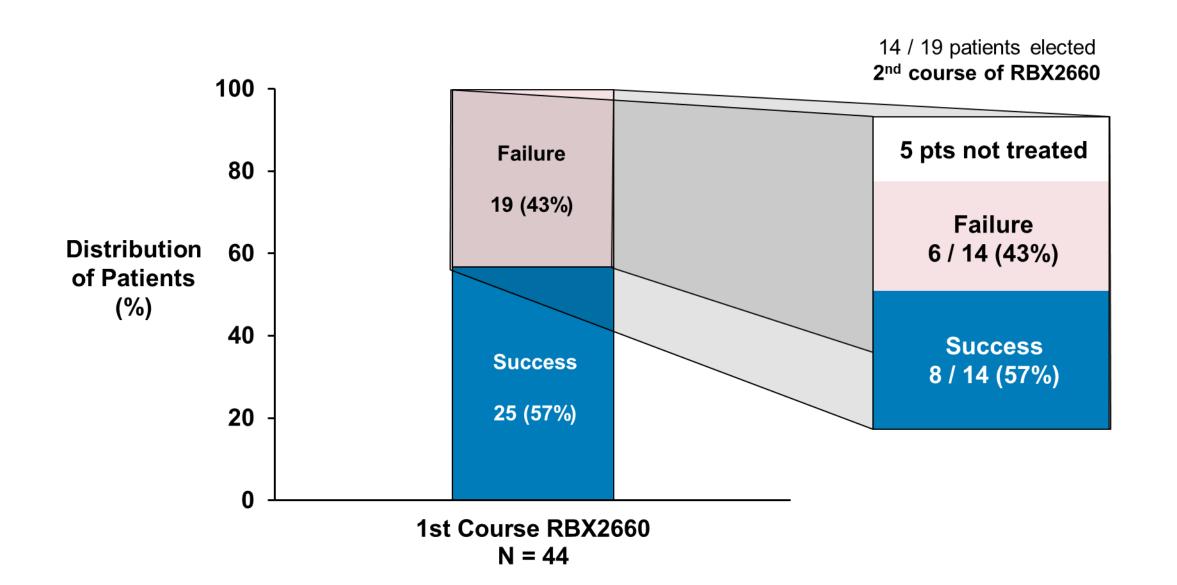
	RBX2660 (2 doses) N = 45	RBX2660 (1 dose) N = 44	Placebo N = 44
Age (years), mean (SD) Min, max	63.6 (19.2) (24 – 89)	61.0 (19.7) (18 – 88)	58.8 (19.2) (19 – 92)
Female	58%	57%	68%
White	98%	96%	98%
Duration of CDI (days), mean (SD)	19 (13)	17 (11)	20 (18)
Previous episodes of CDI, mean	4.3	4.1	3.8
Hospitalization			
Due to CDI episode	58%	43%	57%
Duration (days), median (IQR)	9.5 (15.0)	7.0 (6.0)	5.0 (3.5)
Vancomycin during screening	91%	86%	91%

Study 2014-01: Primary and Secondary Efficacy Results ITT Population

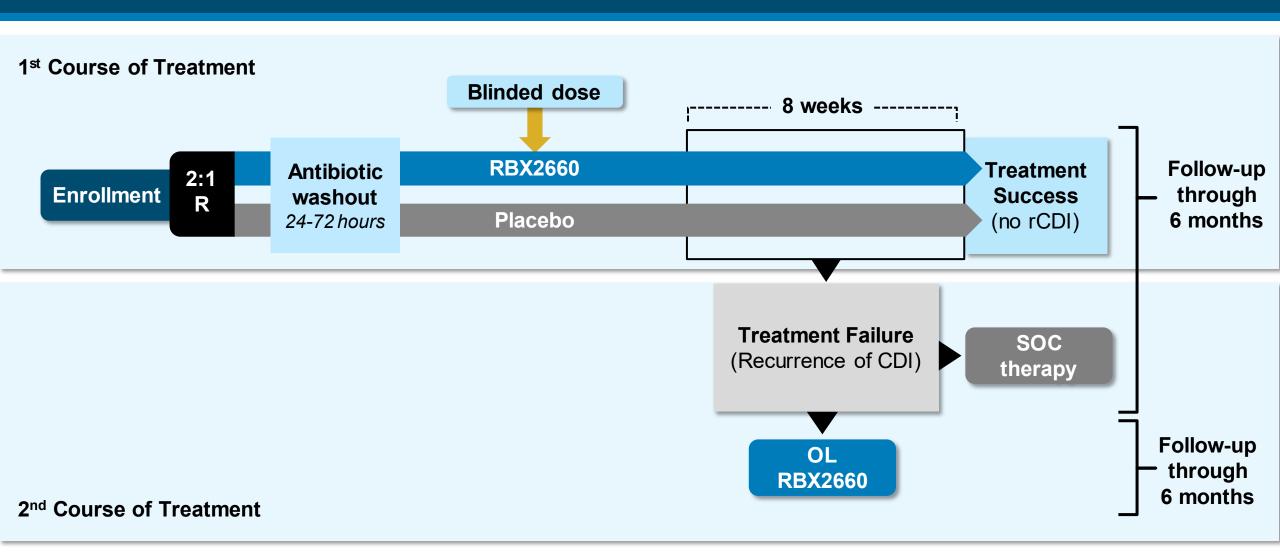
Treatment Success at 8 weeks (%)



Study 2014-01: Treatment Success After Second Course of RBX2660



Study 2017-01: Design



Study 2017-01: Key Inclusion and Exclusion Criteria

Inducion critaria

- ≥ 18 years old
- ≥ 1 episode of recurrent CDI after primary CDI and ≥ 1 round SOC antibiotics

<u>OR</u>

≥ 2 episodes of severe CDI resulting in hospitalization

Exclusion critaria

- History of IBD (ulcerative colitis, Crohn's disease, microscopic colitis), IBS, chronic diarrhea, celiac disease
- Previous fecal transplant, investigational CDI vaccine, CDI monoclonal antibodies

Study 2017-01: Baseline Demographics and Medical Characteristics Well-Balanced (mITT)

	RBX2660 N = 177	Placebo N = 85	
Age (years), mean (SD) Min, max	61.3 (16.8) (19, 93)	57.5 (15.9) (26, 86)	
Female	69%	69%	
White	93%	89%	
Duration of CDI (days), mean (SD)	26.3 (14.8)	25.3 (11.4)	
Previous episodes of CDI, mean	3	3	
Hospitalization			
Due to CDI episode	13%	12%	
Duration (days), median (IQR)	5.0 (4.0)	5.0 (4.0)	
Vancomycin during screening	87%	89%	

Additional Table for Slide 31

Table 8 Demographic and Baseline Disease Characteristics (Primary Analysis Set or Full A

Table 5 Demographic and Ba	Randomized, Placebo-Controlled Studies				
	2014-01 2017-01				
Characteristic	RBX2660 (2 Doses)	Placebo (2 Doses)	RBX2660 (1 Dose)	RBX2660 (1 Dose)	Placebo (1 Dose) (N = 85)
	(N = 45)	(N = 44)	(N = 44)	(N = 177)	(14 = 85)
Age, years	63.6 (19.2)	58.8 (19.2)	61.0 (19.7)	61.3 (16.8)	57.5 (15.9)
Mean (SD) Median	68.0	62.0	63.0	64.0	60.0
Minimum, maximum	24, 89	19, 92	18, 88	19, 93	26, 86
Age group, n (%)	24, 69	19, 92	10, 00	19, 93	20, 80
<65 years	19 (42.2)	25 (56.8)	26 (59.1)	90 (50.8)	53 (62.4)
≥65 years	26 (57.8)	19 (43.2)	18 (40.9)	87 (49.2)	32 (37.6)
Sex, n (%)	20 (57.0)	15 (15.2)	10 (10.5)	07 (15.2)	32 (37.0)
Male	19 (42.2)	14 (31.8)	19 (43.2)	55 (31.1)	26 (30.6)
Female	26 (57.8)	30 (68.2)	25 (56.8)	122 (68.9)	59 (69.4)
Race, n (%)	20 (57.0)	30 (00.2)	25 (50.0)	122 (00.5)	35 (05.1)
White	44 (97.8)	43 (97.7)	42 (95.5)	165 (93.2)	76 (89.4)
Non-White	-	- 13 (57.77)	-	12 (6.8)	9 (10.6)
American Indian or Alaska Native	0	o	o	2 (1.1)	0
Asian	o	0	ő	1 (0.6)	0
Black or African American	o	1 (2.3)	2 (4.5)	8 (4.5)	6 (7.1)
Native Hawaiian or Other Pacific	o	0	0	0	0
Islander					
Other	1 (2.2)	0	О	0	3 (3.5)
Multiple	0	0	0	1 (0.6)	0
Ethnicity, n (%)	` ′	` '	` ′		<u> </u>
Hispanic or Latino	1 (2.2)	2 (4.5)	1 (2.3)	2 (1.1)	4 (4.7)
Not Hispanic or Latino	43 (95.6)	42 (95.5)	42 (95.5)	166 (93.8)	78 (91.8)
Not reported	1 (2.2)	0	1 (2.3)	4 (2.3)	0
Unknown	0	ő	0	5 (2.8)	3 (3.5)
Site Geography, n (%)				3 (2.0)	3 (3.5)
Canada	_	_	_	51 (28.8)	26 (30.6)
Eastern US	_	_	_	23 (13.0)	8 (9.4)
Southern US	_	_	_	48 (27.1)	27 (31.8)
Northern US	_	_	_	29 (16.4)	13 (15.3)
Western US	_	_	_	26 (14.7)	11 (12.9)
Duration of qualifying CDI episode, days				25 (21.7)	11 (223)
Mean (SD)	18.8 (13.4)	19.8 (17.7)	17.3 (11.4)	26.3 (14.8)	25.3 (11.4)
Median	15.0	15.0	14.0	24.0	22.0
Minimum, maximum	1, 74	1, 98	1, 71	11, 163	11, 67
maxillulii	±, /⊤	1, 70	1, /1	11, 103	11,07

Study 2017-01: Primary Endpoint Definition Consistent with 2014-01

	Description
Primary Endpoint	
Treatment Success	Absence of CDI diarrhea for 8 weeks after study treatment
Primary Analysis Population	
	All randomized who received blinded treatment
Modified Intent-to-treat (mITT)	 Excluded: discontinued prior to outcome evaluation if not related to CDI symptoms Discontinuations due to CDI symptoms were considered
Secondary endpoint	failures Loss of sustained clinical response through 6 months

Increased Availability of Unapproved FMT Resulted in Enrollment Difficulties

- Planned enrollment in two Phase 3 studies (N ≈ 300 each)
 - Expanded number of clinical sites
 - Accrual rates continued to be far less than anticipated
 - Delayed completion of pivotal Phase 3 study
- Conducting another placebo-controlled study would have been challenging
 - Would take ~ 6 additional years to complete

Innovative Design Incorporated in Consultation with FDA Due to Enrollment Challenges

- Type C meeting with FDA to discuss recruitment difficulties
- FDA agreed with formal borrowing of 2014 data
 - Bayesian approach incorporated in statistical analysis plan prior to enrollment completion and before data unblinding or interim / final analyses
- Exceeded required number of patients for safety assessment (N = 600); robust for orphan designated population
- Confirmatory evidence of FMT success

Study 2017-01: Bayesian Hierarchical Model

Amended Primary Analysis

Prior Study 2014-01
RBX2660 (1 dose) and Placebo

More similar response rates more model borrows

Data Study 2017-01

RBX2660 (1 dose) and Placebo

Posterior Probability

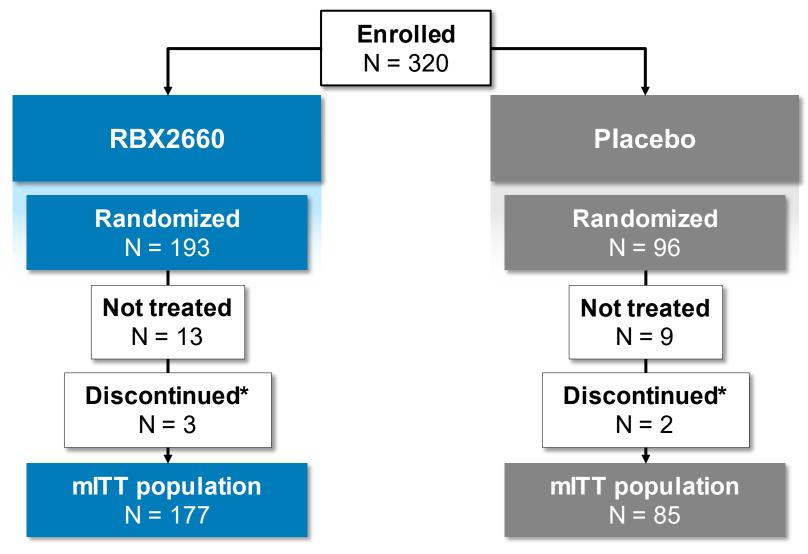
Final Analysis:
Probability of Superior Treatment Success
with RBX2660 versus PBO

Study 2017-01: FDA Regulatory Statistical Significance Thresholds

Amended Primary Analysis

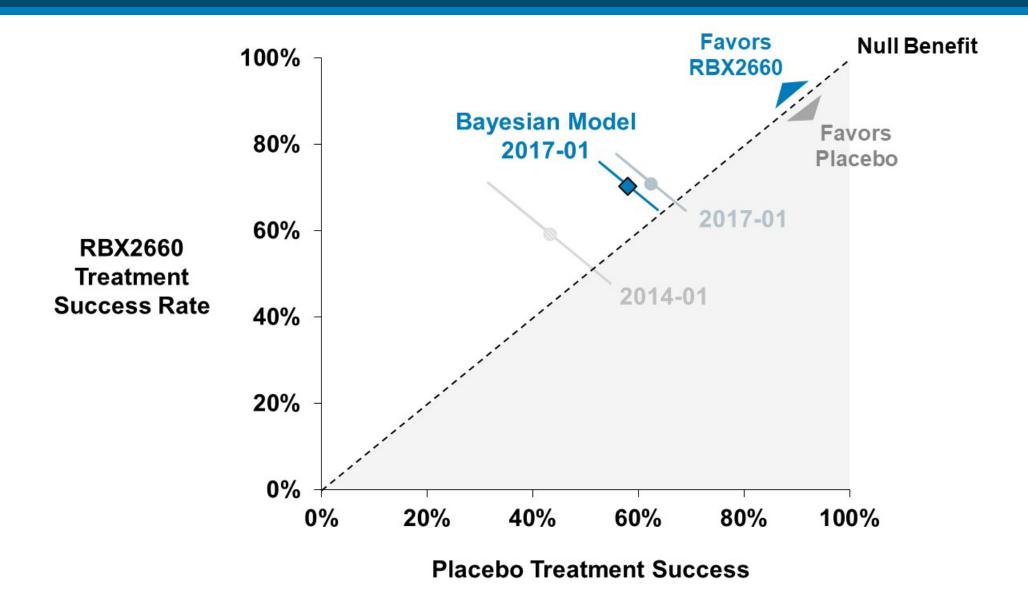
	Bayesian Posterior Probability Superiority
Statistically significant	97.50%
Statistically very persuasive	99.93%

Study 2017-01: Disposition of Patients in mITT Population



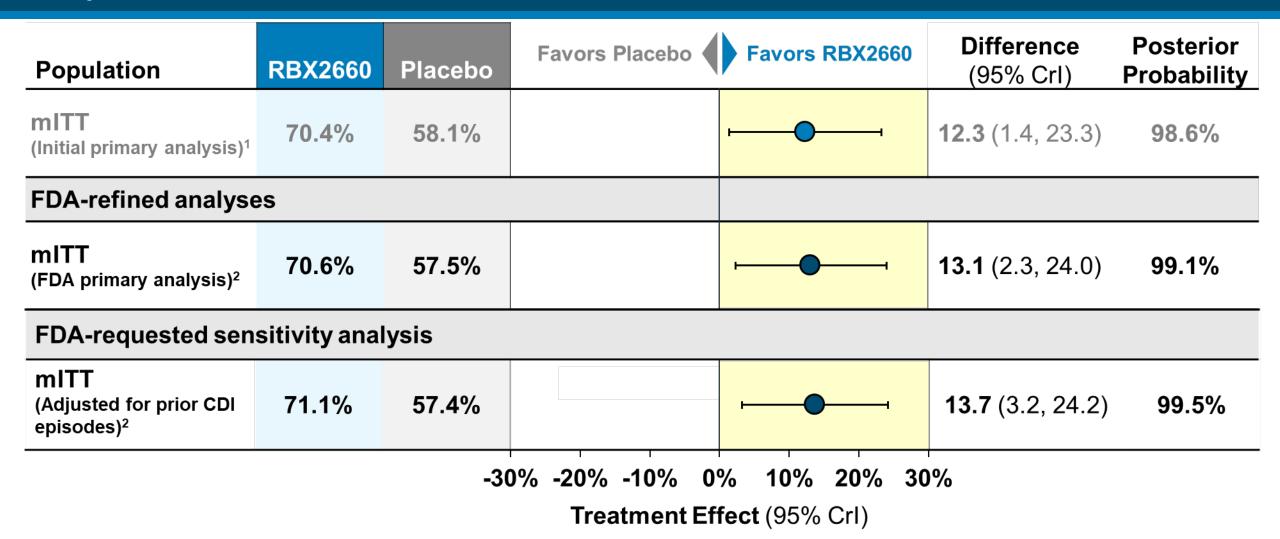
Study 2017-01: Bayesian Analysis Demonstrated Efficacy

2017-01 mITT Population and 2014-01 ITT Population



Study 2017-01: Primary Efficacy Analysis

Bayesian Model



- 1. Borrowed 2014 ITT to 2017 mITT:
- 2. Borrowed 2014 mITT to 2017 mITT, aligned analysis population definitions and endpoint assessment period

Additional Information for Slide 40

3.3.1.1.1.2 Study 2017-01

Analysis Populations

A sensitivity analysis of Treatment Success using the mITT, ITT, and PP analysis populations demonstrated that the Bayesian hierarchical model results were consistent across analysis populations (Table 11).

Table 11 Posterior Estimates from the Bayesian Hierarchical Model (ITT, mITT, and PP Analysis Populations)

Population	RBX2660 (Blinded)	Placebo	Treatment Difference	Posterior Probability
Statistic	Success Rate	Success Rate		of Superiority
mITT				
Mean (SD)	0.704 (0.034)	0.581 (0.051)	0.123 (0.056)	0.986
95% CI	0.637, 0.768	0.484, 0.682	0.014, 0.233	0.980
ITT				
Mean (SD)	0.691 (0.033)	0.567 (0.049)	0.125 (0.056)	0.987
95% CI	0.625, 0.756	0.472, 0.665	0.016, 0.233	0.987
PP				
Mean (SD)	0.709 (0.034)	0.572 (0.053)	0.137 (0.058)	0.991
95% CI	0.640, 0.774	0.472, 0.677	0.024, 0.251	0.991

CI = confidence interval; ITT = intent-to-treat; mITT = modified intent-to-treat; PP = per-protocol; SD = standard deviation.

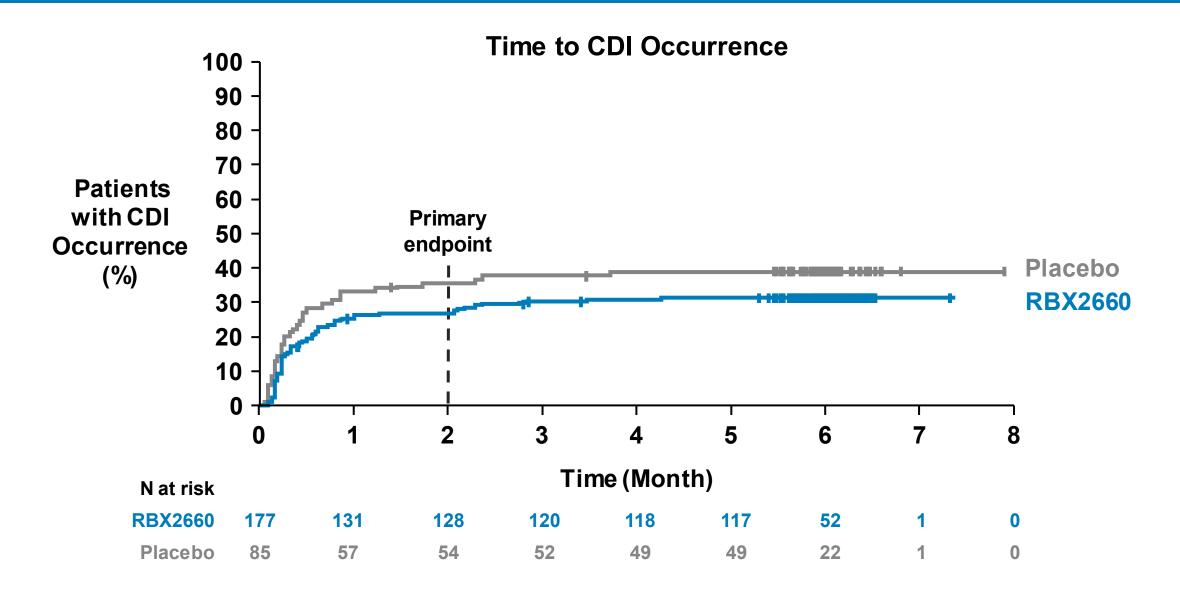
Study 2017-01: Efficacy Consistent Across Subgroups

Treatment Success at 8 Weeks (mITT)

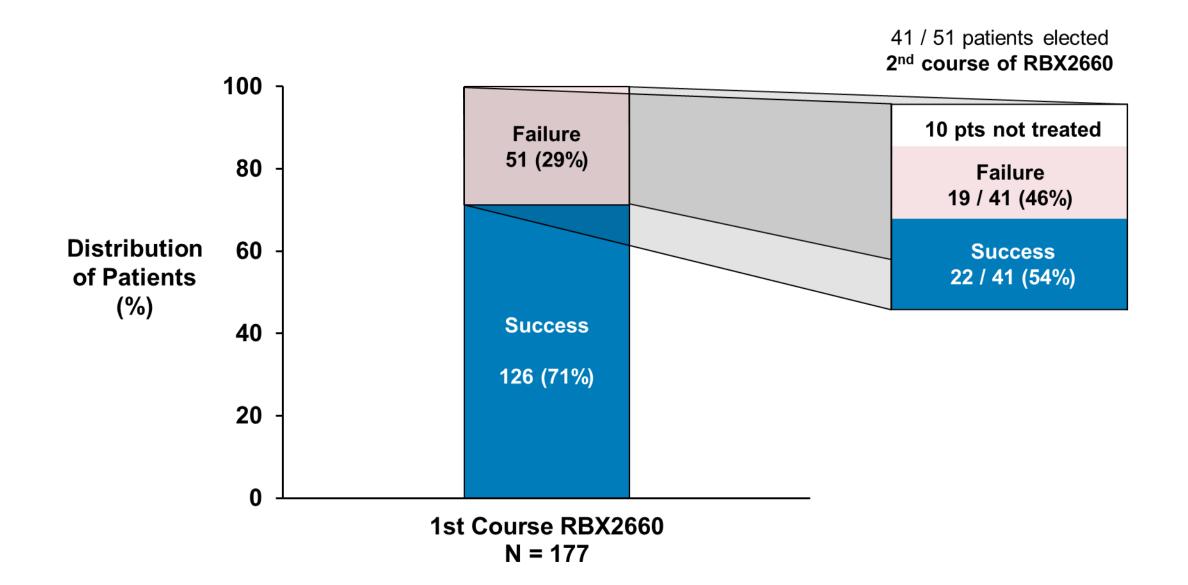
Treatment Success Rate, %		RBX2660	Placebo	Favors Placebo	Favors RBX2660	Difference (95% CI)
A	< 65 years	73.3	66.0	<u> </u>		7.3 (-8.4, 23.0)
Age	≥ 65 years	69.0	56.3			12.7 (-7.0, 32.5)
0	Male	76.4	57.7	F		18.7 (-3.4, 40.7)
Sex	Female	68.9	64.4		•	4.4 (-10.3, 19.2)
Race	White	70.9	61.8	-		9.1 (-3.9, 22.0)
	Non-white	75.0	66.7	-	-	8.3 (-31.0, 47.7)
Danis de la contra del contra de la contra del la contra de la contra del la contra del la contra de la contra de la contra de la contra del la contra del la contra de la contra de la contra del	≤ 3	72.1	66.7	-		5.4 (-9.4, 20.2)
Previous episodes of CDI	> 3	69.7	53.6	<u></u> ⊢		16.1 (-5.4, 37.7)
Duration of vancomycin use for qualifying CDI	≤ 14 days	71.1	69.2	-	•———	1.9 (-20.3, 24.0)
	> 14 days	68.8	56.0	F		12.8 (-3.5, 29.1)

-50 -40 -30 -20 -10 0 10 20 30 40 50 Treatment Difference (95% CI)

Study 2017-01: Sustained Clinical Response Observed Through 6 Months (mITT)

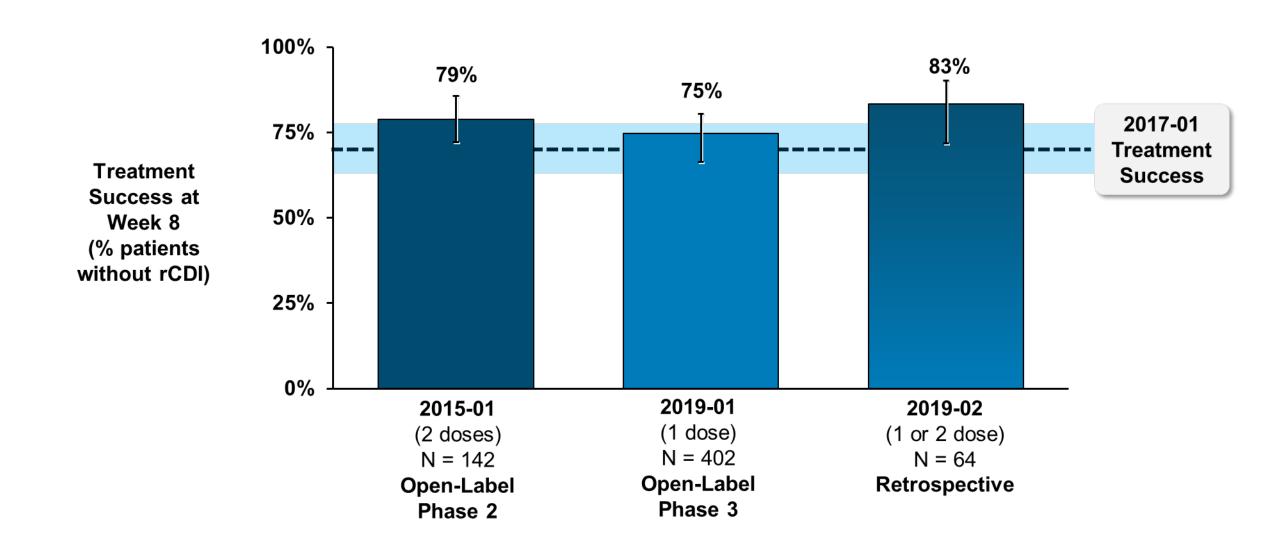


Study 2017-01: <u>Treatment Success After Second Course of RBX2660</u>



Evidence of RBX2660 Trials Demonstrating Consistent Treatment Success

Open-Label, Nonrandomized



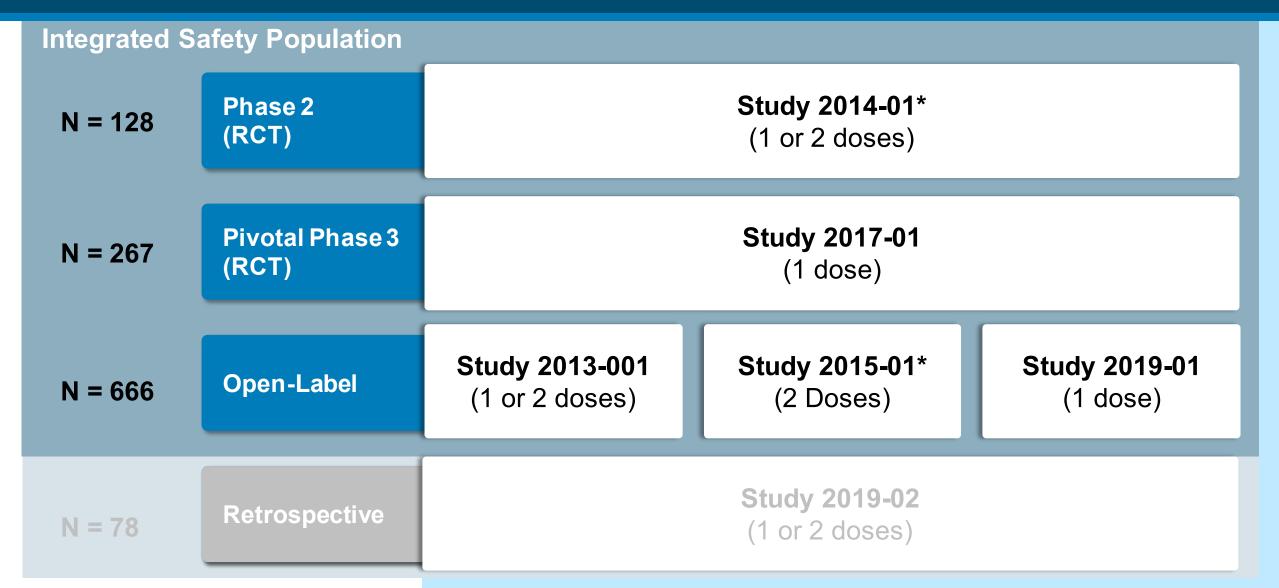
Evidence of Efficacy Supports RBX2660

- RBX2660 clinical evidence
 - Pivotal Study 2017 achieved statistical significance with 99.1% probability of superiority
 - Supported by consistently favorable results across clinical program
 - Serious, rare disease with orphan designation
- RBX2660 builds upon already used, unapproved FMT and provides larger well-controlled dataset
- RBX2660 standardized to provide consistent efficacy



Safety
Jonas Pettersson, MD, PhD
Senior Medical Director
Ferring Pharmaceuticals

Overall Safety Exposures



^{*}Included 2 doses of Investigational Product within each course of treatment

Study 2017-01 Safety Overview (8 Week Double-Blind Period)

Treatment-Failures Censored at Time of CDI Recurrence

	Blinded RBX2660 N = 180	Blinded Placebo N = 87
AEs*	48%	39%
Mild	22%	15%
Moderate	21%	21%
Severe	4%	3%
Potentially life-threatening**	1 (0.6%)	0%
SAEs	2%	1%
AEs leading to discontinuation**	1 (0.6%)	0%
AEs leading to death**	1 (0.6%)	0%

^{*}AEs reported by maximum severity as assessed by investigator using CTCAE criteria

^{**}Same patient represented in each category

AEs in ≥ 5% of Patients (8 Week Double-Blind Period)

Study 2017-01: Treatment- Failures Censored at Time of CDI Recurrence

System Organ Class Preferred Term	Blinded RBX2660 N = 180	Blinded Placebo N = 87
AEs	48%	39%
Gastrointestinal disorder	29%	30%
Diarrhea	12%	13%
Abdominal pain	13%	10%
Nausea	8%	5%

- GI AEs typically occurred within first 7 days (median) after treatment
- GI AEs lasted median 2 days RBX2660, 4 days placebo

SAEs Comparable Between Groups (8 Week Double-Blind Period)

Study 2017-01: Treatment-Failures Censored at Time of CDI Recurrence

	Preferred Term	Blinded RBX2660 N = 180	Blinded Placebo N = 87
SAEs		4 (2%)	1 (1%)
Dationt #4	lleus	0.6%	0%
Patient #1	Abdominal abscess	0.6%	0%
Patient #2	Asthenia	0.6%	0%
Patient#2	Hand fracture	0.6%	0%
Patient #3	Abdominal pain	0.6%	0%
Patient #4	Cardio-respiratory arrest*	0.6%	0%
Patient #5	Cellulitis	0%	1%

Study 2017-01 Safety Overview (Through 6 Months)

Treatment-Failures Censored at Time of CDI Recurrence

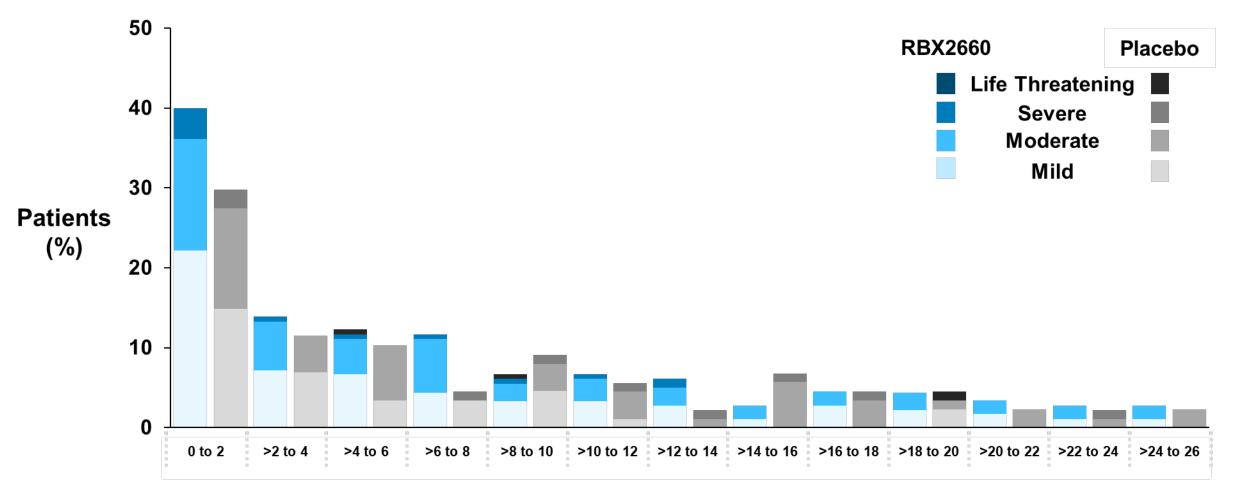
	Blinded RBX2660 N = 180	Blinded Placebo N = 87
AEs*	56%	45%
Mild	23%	10%
Moderate	26%	29%
Severe	6%	6%
Potentially life-threatening**	1 (0.6%)	0%
SAEs	4%	2%
AEs leading to discontinuation**	1 (0.6%)	0%
AEs leading to death**	1 (0.6%)	0%

^{*}AEs reported by maximum severity as assessed by investigator using CTCAE criteria

^{**}Same patient represented in each category

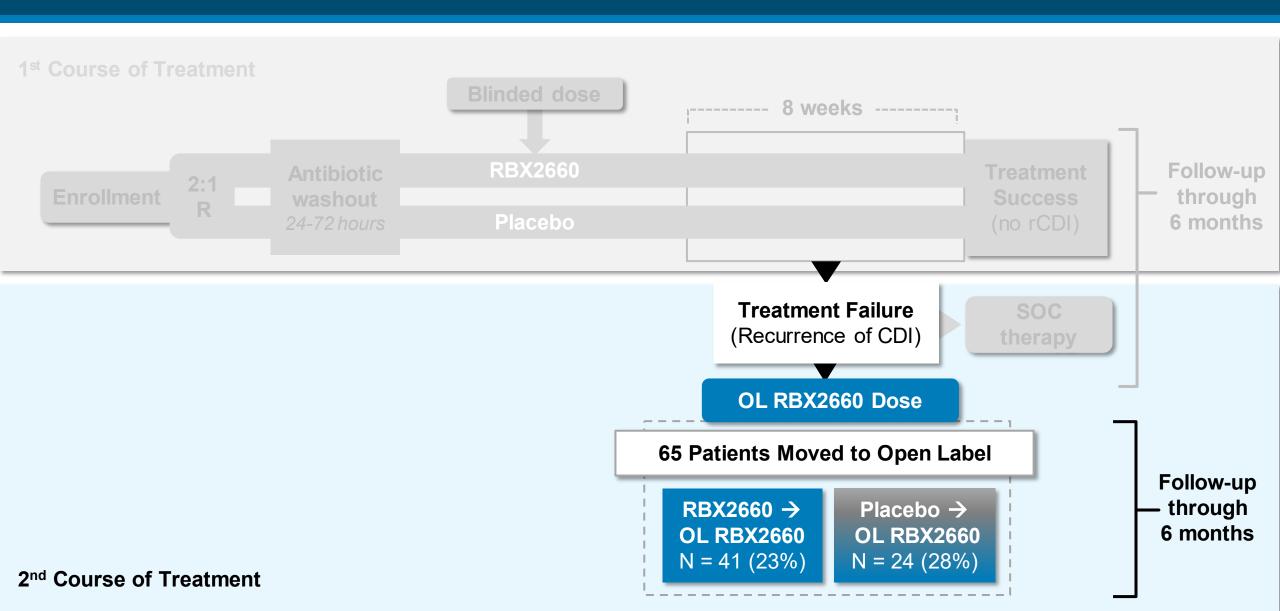
Study 2017-01 (Through 6 Months): AEs Occur Early and Balanced Over Time

Treatment-Failures Censored at CDI recurrence – AE Onset in Different Intervals



Study Interval (2 weeks)

Study 2017-01: Safety in Retreated Patients Through 6 Months



Study 2017-01: Safety Overview Through 6 Months After Open-Label RBX2660 Treatment

	Blinded RBX2660 → OL RBX2660 N = 41	Placebo -> OL RBX2660 N = 24
AEs*	59%	58%
Mild	20%	25%
Moderate	24%	25%
Severe	12%	4%
Potentially life-threatening	2%	4%
SAEs	12%	4%
AE leading to discontinuation	5%	0
AEs leading to deaths	1 (2%)	0

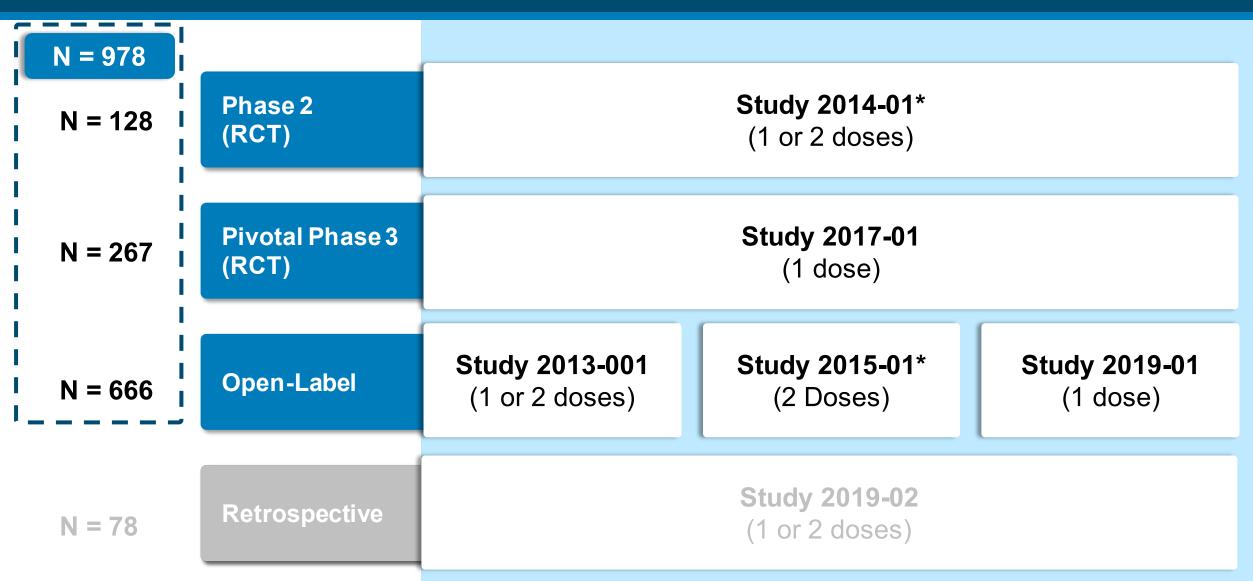
^{*}AEs reported by maximum severity as assessed by investigator using CTCAE criteria

Study 2017-01: Deaths Deemed Not Related to RBX2660 or Procedure by Investigator and DSMB

Age / Sex	Treatment Details	Cause of Death (Day of Death from Last Dose)	Key Medical History / Comorbidities	Related to Study Drug (Y / N)*
75 / M	Blinded RBX2660	Cardio-respiratory arrest (Day 37)	CABG x 4, hyperlipidemia, A-Fib, cerebrovascular accident, tachycardia, epilepsy, Parkinson's disease, dementia	N
79 / F	Blinded RBX2660 / OL RBX2660	Multimorbidity (Day 151)	Congestive heart failure, hyperlipidemia, diabetes mellitus, chronic kidney disease, cerebrovascular disease, anemia, chronic urinary tract infections	N

^{*}Relatedness determined by Investigator, also DSMB reviewed

Prospective Studies: RBX2660 Safety Exposures from Integrated Safety Population



^{*}Included 2 doses of Investigational Product within each course of treatment

Overall Safety Profile: Blinded ISS Through 6 Months (Study 2014-01 and 2017-01)

	Blinded RBX2660 Only (1 or 2 doses) N = 193	Blinded Placebo Only (1 or 2 doses) N = 83
AEs*	70%	60%
Mild	29%	16%
Moderate	28%	35%
Severe	10%	8%
Potentially life-threatening	3%	1%
SAEs	10%	7%
AE leading to discontinuation**	1 (0.5%)	0
AEs leading to deaths	5 (3%)	0

^{*}AEs reported by maximum severity as assessed by investigator using CTCAE criteria **AEs leading to discontinuation only collected in 2017-01, which includes deaths

Overall Safety Profile: Integrated Safety Population

Through 6 months post last dose	All RBX2660* (1 to 4 Doses) N = 978
AEs**	69%
Mild	23%
Moderate	30%
Severe	13%
Potentially life-threatening	3%
SAEs	14%
AEs leading to discontinuation***	0.8%
AEs leading to death	18 (1.8%)

RBX2660 1 Dose Only N = 595	Placebo Only N = 83
64%	60%
21%	16%
30%	35%
11%	8%
2%	1%
10%	7%
5 (0.8%)	0%
5 (0.8%)	0%

^{*}Includes those who failed on placebo and crossed over to RBX

^{**}AEs reported by maximum severity as assessed by investigator using CTCAE criteria

^{***}AEs leading to discontinuation only collected in 2017-01 and 2019-01, which includes deaths

AEs Leading to Death: Integrated Safety Population

	All RBX2660* (1 to 4 Doses) N = 978	Placebo Only N = 83				
AEs occurring within 6 months leading to death	18 (1.8%)	0%				
Observation time (patient-years)*	404	42				
*Observation time through 6 months (404 / 446 total time: 91% on RBX2660)						
Date of death (from last dose)						
1 – 30 days	2	0				
> 30 - 60 days	5	0				
> 60 - 6 months	8	0				
> 6 months – 2 years	3	0				

Broad diversity of causes, spanning across system organ classes

No Infection Transferred During Clinical Program; Rigorous Screening and Pharmacovigilance Will Continue to Mitigate Risks

Screen	Screen donor and stool for pathogens		
Standardize	Standardize manufacturing and administration		
Adapt	Adapt screening processes for emerging pathogens		
Follow-up	Follow-up pharmacovigilance surveillance		

Safety Conclusion: RBX2660 is Well-Tolerated in Extensive Safety Dataset

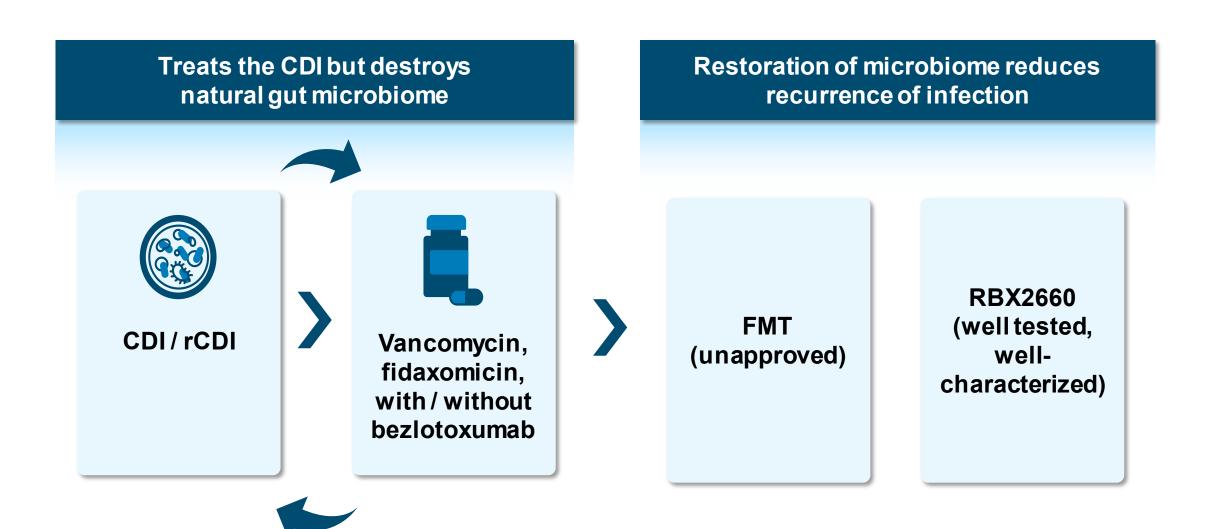
- Favorable safety profile
- AEs mostly mild to moderate
 - Mostly gastrointestinal-related, as expected
- SAEs and deaths not plausibly related to RBX2660, most cases related to underlying CDI and comorbidities
- Rigorous donor screening program successfully mitigated risks
 - No infections transferred
 - Stringent controls will continue post-approval



Clinical Perspective
Colleen Kraft, MD, MSc, FIDSA

Associate Chief Medical Officer
Professor, Pathology and Laboratory Medicine
Professor, Medicine/Division of Infectious Diseases
Emory University

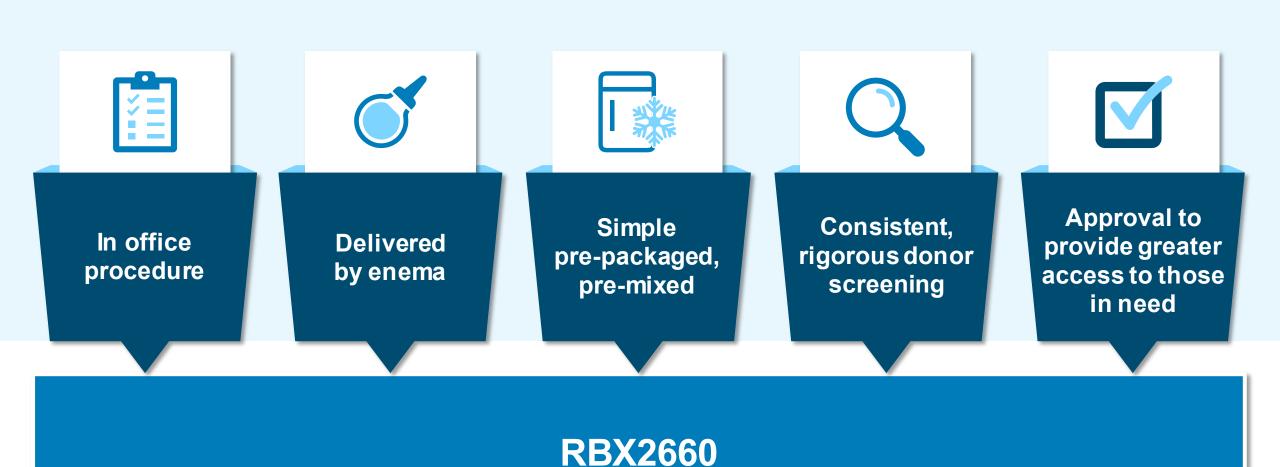
Unmet Need for Effective Treatment to Address Cycle of Recurrent CDI



Clinically Meaningful Benefits of RBX2660

- Study 2017-01 results clinically meaningful
 - 71% treatment success with 1 course of treatment
 - NNT = 8
- Additional clinical study data supportive

Practical Benefits of RBX2660



RBX2660 Safety in Context: Expected and Manageable Safety Profile for a Microbiota Restorative Treatment

- Safety aligns with expectations
 - Events mostly mild to moderate and manageable
 - Long-term safety appears unchanged
 - Safety of second course consistent to first, without accumulated risk
 - 30-day all-cause mortality
 - Background rate 1.3-9.3%¹
- RBX2660 minimizes risk of transmissible pathogens

Treatment Considerations in Context

	Efficacy and Safety Data	Benefit-Risk from Well- Controlled RCTs	Scalable Product	GMP / Standardized Process	Evolving Screening and Safety Surveillance
RBX2660	Ø	Ø	Ø	Ø	S
FMT	Ø	X	X	X	X

RBX2660: Positive Benefit-Risk Profile

- Pivotal prospective data outcomes that align with goal of treatment - to prevent recurrent infection
- Acceptable safety profile with strict donor screening
- Approval of RBX2660, an important step towards meeting unmet medical need of our patients

RBX2660 for Reduction of Recurrence of Clostridioides difficile Infection

September 22, 2022

Rebiotix Inc., a Ferring Company

Vaccines and Related Biological Products Advisory Committee