

Two-Week Repeat Rifaximin Course in Initial IBS-D Responders

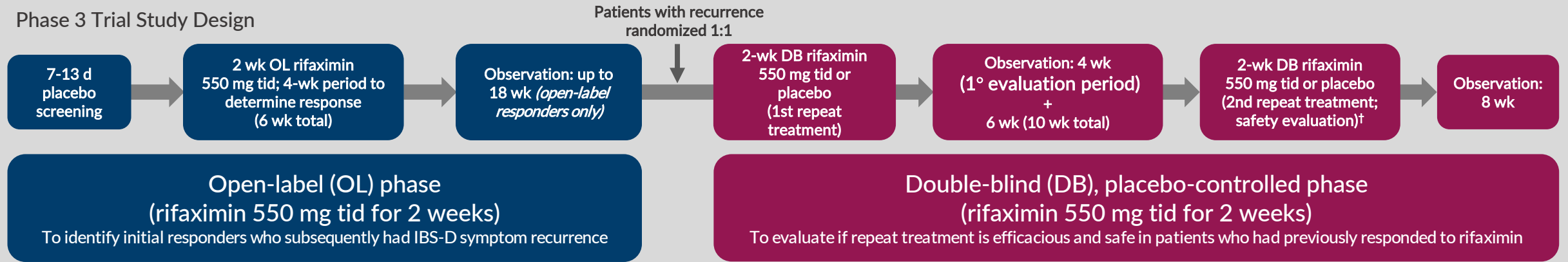
Lembo A, et al. Repeat treatment with rifaximin is safe and effective in patients with diarrhea-predominant irritable bowel syndrome. *Gastroenterology*. 2016;151(6):1113-1121.



Inclusion Criteria

Adults with IBS (Rome III criteria) who, during the placebo-screening phase, had mean symptom severity scores of ≥ 3 for IBS-related abdominal pain* and ≥ 3 for bloating* and ≥ 2 days per week with watery/mushy (BSS type 6/7) stool

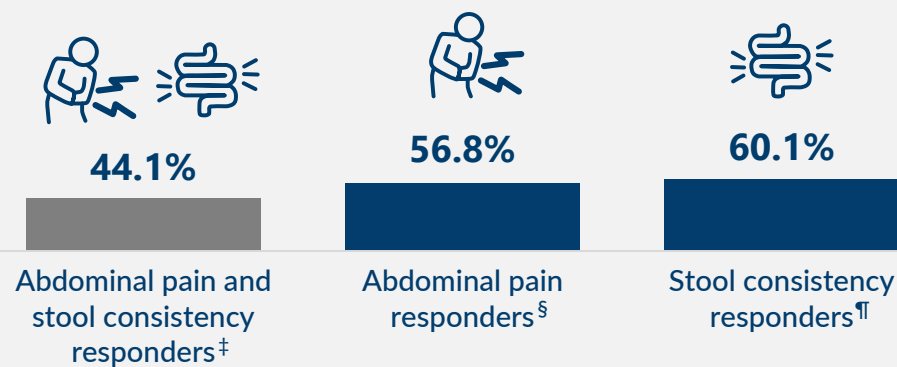
Phase 3 Trial Study Design



OL baseline characteristics (N=2579)

Age	Female/male, %	Mean (SD) abdominal pain score	Mean (SD) stool consistency score	Mean (SD) bloating score	Mean (SD) IBS symptoms score
46.4 (13.7)	68.2/31.8	5.5 (1.7)	5.6 (0.8)	4.1 (0.9)	4.2 (0.9)

OL efficacy evaluation (n=2438)



636 of 1074 composite responders had symptom recurrence[#] during observation phase and were randomized in DB phase

DB baseline characteristics (n=636)

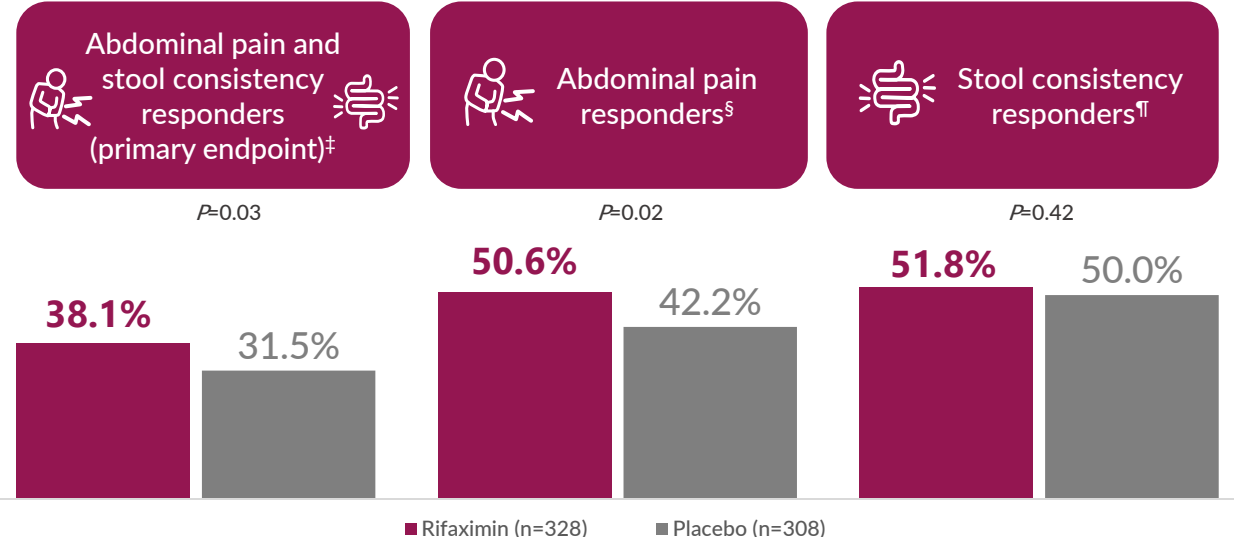
	Age	Female/male, %
Rifaximin (n=328)	Mean (SD) age, y: 47.9	67.7/32.3
Placebo (n=308)	Mean (SD) age, y: 45.6	71.1/28.9

At start of DB treatment (636 patients), baseline symptoms were significantly milder than at the beginning of OL treatment ($P < 0.001$), with a 20% reduction in mean abdominal pain severity and 14% reduction in mean weekly number of days with loose stools**

	OL baseline	DB baseline	Mean (95% CI)
Average daily score of abdominal pain	5.61 (5.48-5.74)	4.52 (4.35-4.69)	Decrease in severity
Weekly number of days with stool type 6/7	4.96 (4.82-5.10)	4.25 (4.08-4.42)	Decrease in severity
Average daily score of bloating	4.13 (4.06-4.21)	3.66 (3.55-3.76)	Decrease in severity
Average daily score of IBS symptoms	4.18 (4.11-4.25)	3.66 (3.56-3.77)	Decrease in severity

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DB efficacy evaluation of repeat treatment (n=636)



AE profile (DB phase)

Patients with an AE, n (%)	Rifaximin (n=328)	Placebo (n=308)
Any AE	140 (42.7)	140 (45.5)
Serious AEs	4 (1.2)	4 (1.3)
Most common AEs ^{††}		
Nausea	12 (3.7)	7 (2.3)
URTI	12 (3.7)	8 (2.6)
UTI	11 (3.4)	15 (4.9)
Nasopharyngitis	10 (3.0)	9 (2.9)

*IBS-related abdominal pain scale of 0-10 (0 = "no pain" to 10 = "worst possible pain"); bloating scale 0-6 (0 = "not at all" to 6 = "a very great deal").

[†]Primary purpose of second repeat treatment was to gain additional safety and tolerability data with rifaximin retreatment rather than efficacy data.

[‡]Patient meeting weekly response criteria for both abdominal pain ($\geq 30\%$ decrease from baseline in mean weekly pain score) and stool consistency ($\geq 50\%$ decrease from baseline in number of days/week with BSS type 6/7 stool) for ≥ 2 of the first 4 weeks post-treatment.

[§] $\geq 30\%$ decrease from baseline in mean weekly pain score for ≥ 2 of first 4 weeks post-treatment.

[¶] $\geq 50\%$ decrease from baseline in number of days/week with BSS type 6/7 stool for ≥ 2 of first 4 weeks post-treatment.

[#]Loss of treatment response for either weekly abdominal pain ($< 30\%$ decrease from baseline in mean weekly pain score) or stool consistency ($< 50\%$ decrease from baseline in number of days/week with BSS type 6/7 stool) for ≥ 3 weeks of a consecutive, rolling 4-week period during 18-week observation phase.

**BSS type 6/7.

^{††} $\geq 3.0\%$ of patients in either group, regardless of causality.

AE = adverse event; BSS = Bristol Stool Scale; IBS = irritable bowel syndrome; IBS-D = irritable bowel syndrome with diarrhea; tid = 3 times daily; URTI = upper respiratory tract infection; UTI = urinary tract infection.