

Sustained Efficacy and Safety of Seladelpar for up to 36 Months in Patients With Primary Biliary Cholangitis From the Placebo-Controlled RESPONSE Study to the Open-Label ASSURE Study

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Conclusions

- A rapid and sustained biochemical response was shown from the randomized, placebo-controlled Phase 3 RESPONSE study, continuing into the open-label ASSURE study with efficacy data up to 3 years of treatment
- For patients starting seladelpar in ASSURE who rolled over from RESPONSE, a similar trend of rapid and sustained biochemical response was shown in ASSURE
- Seladelpar continued to appear safe and well tolerated through 3 years of exposure, with no increase in the frequency of adverse events over time and no new safety signals identified with ongoing exposure

Plain Language Summary

- Primary biliary cholangitis (PBC) is a long-term liver disease that gets worse over time
- Seladelpar is a drug used to treat people with PBC
- ASSURE (NCT03301506) is an ongoing study that includes patients who participated in the Phase 3 RESPONSE study (NCT04620733) and prior seladelpar trials
- This study showed that seladelpar helped to improve measures of liver disease in patients with PBC who rolled over from RESPONSE into ASSURE
- These changes happened shortly after starting treatment with seladelpar and continued throughout treatment
- Seladelpar also appeared to be safe and well tolerated in patients with PBC who were treated with the drug for up to 3 years

References: 1. European Association for the Study of the Liver. *J Hepatol*. 2017;67(1):145-72. 2. Livietski. US prescribing information. Gilead Sciences, Inc.; 2024. 3. Livietski. UK summary of product characteristics. Gilead Sciences, Inc.; 2024. 4. Livietski. EMA prescribing information. Gilead Sciences, Inc.; 2025. 5. Hirschfield GM, et al. *N Engl J Med*. 2024;390(7):63-74. 6. Levy C, et al. *Am J Gastroenterol*. 2025. 7. Hirschfield GM, et al. Presented at: AASLD, The Liver Meeting; November 7-11, 2025, Presentation 5515.

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Disclosures: Conflict of interest disclosures may be viewed using the QR code at the top right.

Introduction

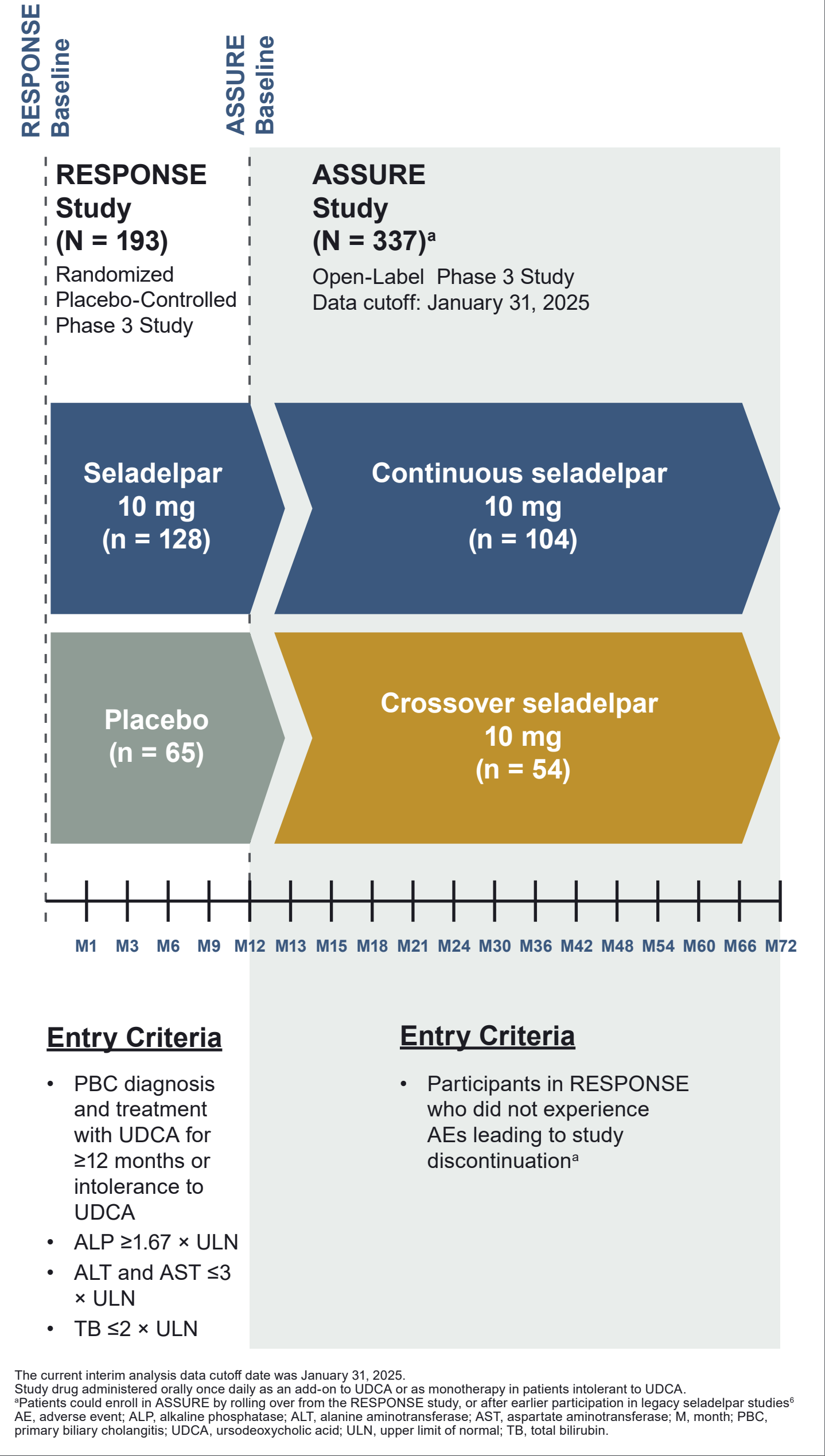
- Primary biliary cholangitis (PBC) is a chronic, autoimmune, cholestatic liver disease that is associated with progressive liver injury and significant symptom burden¹
- Seladelpar is a first-in-class delpar (selective peroxisome proliferator-activated receptor delta [PPARδ] agonist) indicated for the treatment of PBC in combination with ursodeoxycholic acid (UDCA) in adults who have an inadequate response to UDCA, or as monotherapy in patients who are unable to tolerate UDCA^{2,3}
- In the Phase 3, randomized, placebo-controlled RESPONSE study (NCT04620733), seladelpar significantly improved biochemical markers of cholestasis and pruritus vs placebo at 12 months in patients with PBC⁴
- After completing RESPONSE, patients were eligible to enroll in ASSURE (NCT03301506), an ongoing, open-label, Phase 3 trial⁵

Objectives

- This analysis was conducted to report updated long-term efficacy and safety data for seladelpar in patients who rolled over into ASSURE after completion of RESPONSE, with an interim analysis of ASSURE as of 31 January 2025 (seladelpar exposure up to 3 years).⁶

Methods

Figure 1. Study Design



- This analysis included data from RESPONSE⁴ and an interim analysis of ASSURE up to January 31, 2025 (Figure 1)
- Patients who completed RESPONSE were allowed to roll over into ASSURE
- In RESPONSE, patients with PBC with an inadequate response or intolerance to UDCA and alkaline phosphatase (ALP) $\geq 1.67 \times$ the upper limit of normal (ULN) received blinded, daily oral seladelpar 10 mg or placebo; patients who enrolled in ASSURE received open-label, daily oral seladelpar 10 mg
- Patients were analyzed by treatment assignment in RESPONSE, corresponding to continuous seladelpar and crossover seladelpar in ASSURE, respectively. Baseline was defined as the entry into RESPONSE
- Efficacy endpoints included:
 - Composite biochemical response (ALP $< 1.67 \times$ ULN, ALP decrease $\geq 15\%$ from baseline, and total bilirubin $\leq 1.5 \times$ ULN)
 - ALP normalization
 - Percent change from baseline through 36 months in ALP, gamma-glutamyl transferase (GGT), alkaline aminotransferase (ALT), aspartate aminotransferase (AST), and total bilirubin
- Safety was assessed through overall incidence and exposure-adjusted patient incidence of adverse events (AEs) in RESPONSE and ASSURE

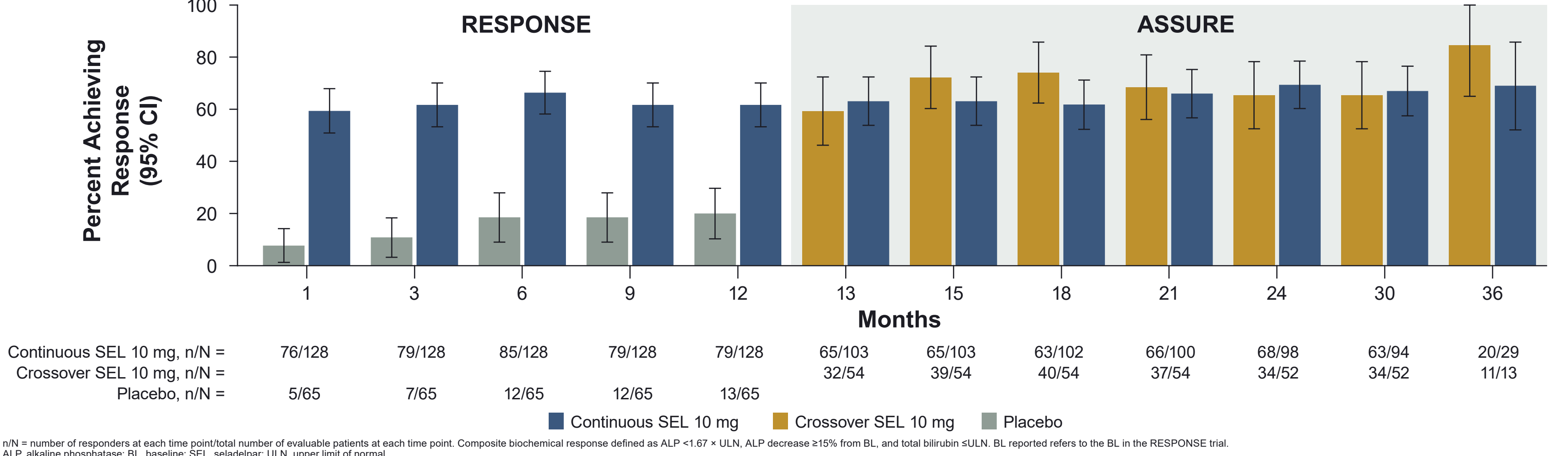
Results

Table 1. Demographics and Baseline Characteristics at Entry Into RESPONSE and ASSURE

	RESPONSE ^a		ASSURE ^b	
	SEL 10 mg n = 128	Placebo n = 65	Continuous SEL n = 104	Crossover SEL n = 54
Age, years, mean (SD)	56.6 (10.0)	57.0 (9.2)	58.0 (10.1)	57.9 (9.3)
Female sex, n (%)	123 (96.1)	60 (92.3)	99 (95)	50 (93)
Race, n (%)				
American Indian or Alaska Native	3 (2)	3 (5)	2 (2)	3 (6)
Asian	7 (5)	4 (6)	6 (6)	4 (7)
Black or African American	2 (2)	2 (3)	2 (2)	2 (4)
White	114 (89)	56 (86)	92 (88)	43 (80)
Other	0	0	0	0
BMI, kg/m ² , mean (SD)	27.2 (5.6)	26.8 (4.8)	27.8 (5.1)	26.9 (5.1)
Patients with cirrhosis at baseline, n (%)	18 (14)	9 (14)	16 (15)	6 (11)
Child-Pugh class A, n (%) ^c	18 (100)	9 (100)	15 (94)	6 (100)
Child-Pugh class B, n (%) ^c	0	0	1 (6)	0
MELD score ≥ 12 , n (%)	0	0	2 (2)	0
ALP, U/L, mean (SD) ^d	314.6 (123.0)	313.8 (117.7)	183.3 (111.5)	288.7 (125.5)
ALT, U/L, mean (SD) ^d	47.4 (23.5)	48.2 (22.8)	36.0 (25.2)	41.4 (21.3)
AST, U/L, mean (SD) ^d	39.6 (16.1)	41.7 (16.0)	37.2 (20.6)	37.0 (14.3)
GGT, U/L, mean (SD) ^d	269.0 (240.0)	287.5 (249.6)	174.8 (164.4)	232.8 (209.3)
Total bilirubin, mg/dL, mean (SD) ^d	0.8 (0.3)	0.7 (0.3)	0.7 (0.5)	0.7 (0.3)

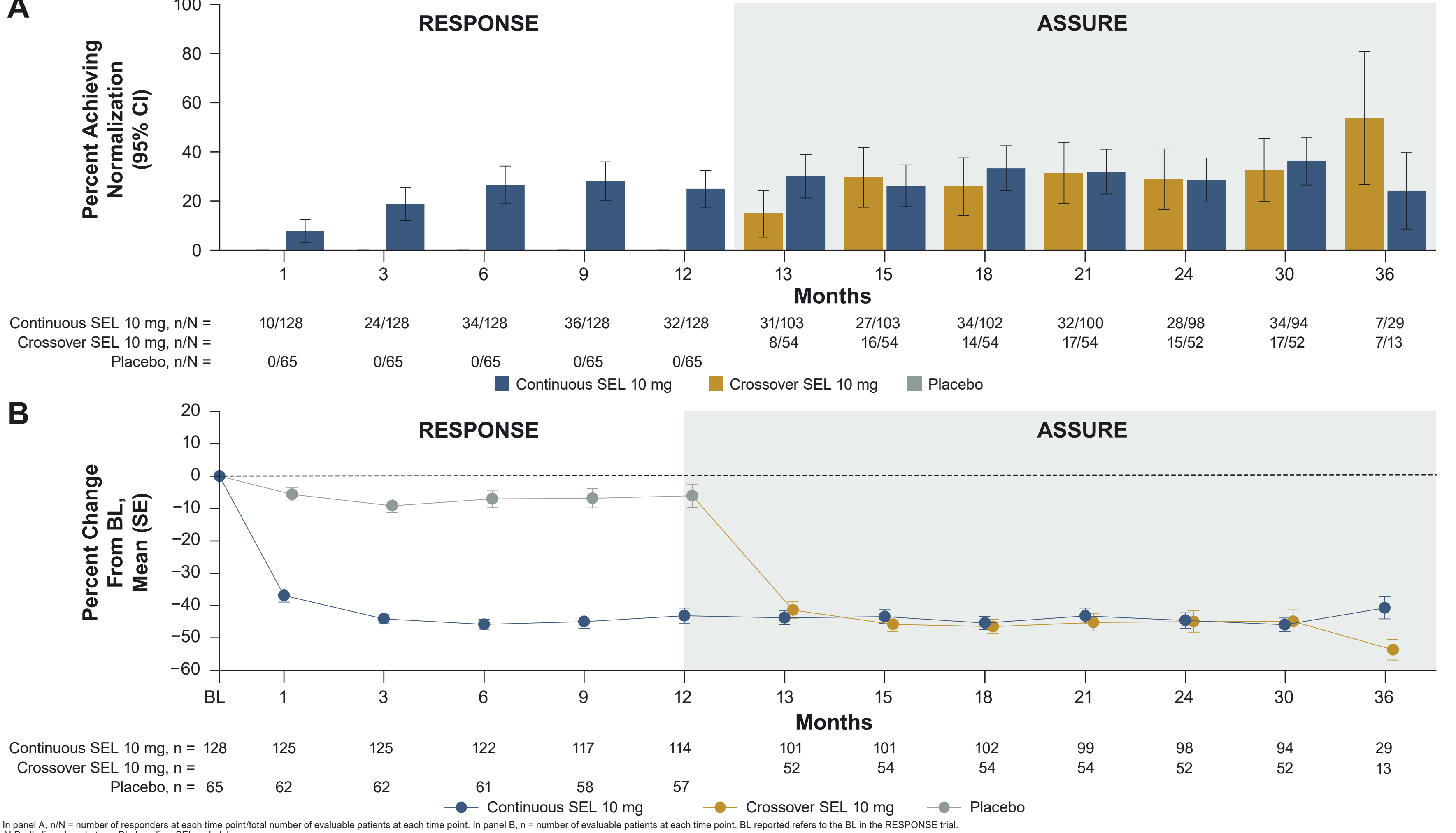
^aBaseline defined as the baseline during entry into the trial. ^bBaseline defined as the baseline during entry into the trial. ^cOf patients with cirrhosis. ^dThe ULN is 198 U/L. The ULN is 34 U/L. The ULN is 32 U/L in men and 38 U/L in women. ^eThe ULN is 110 mg/L. ^fALP, alkaline phosphatase; BMI, body mass index; GGT, gamma-glutamyl transferase; MELD, model for end-stage liver disease; SEL, seladelpar; U/L, upper limit of normal.

Figure 2. Composite Biochemical Response Rates Through 36 Months of Seladelpar Treatment



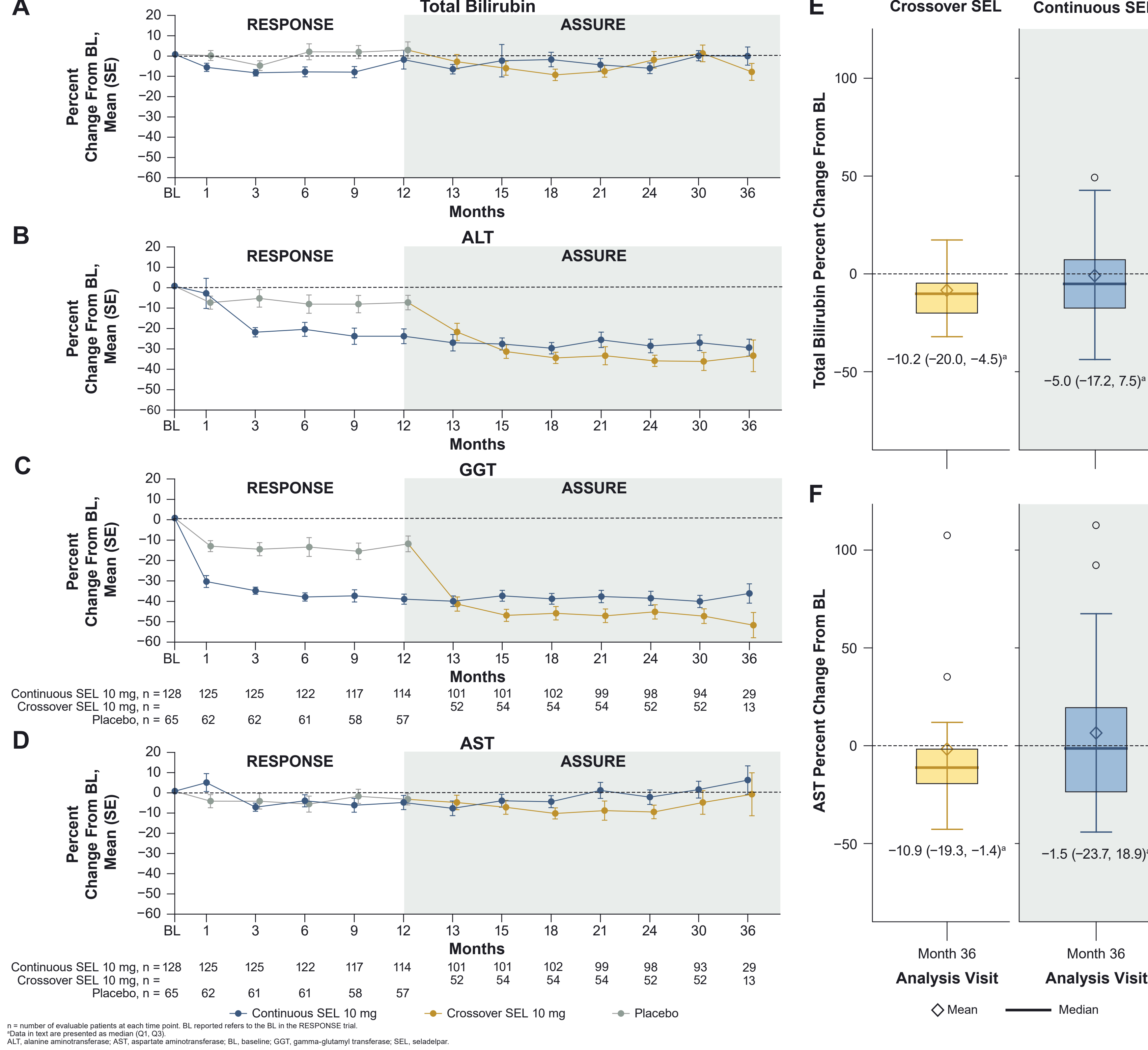
- For patients who started seladelpar in RESPONSE, composite biochemical response with seladelpar at year 1 (62%) was maintained after 36 months of exposure (69% at ASSURE year 2; Figure 2)
- The RESPONSE group had 20% composite biochemical response at the end of RESPONSE. Following seladelpar treatment in ASSURE, 65% achieved of patients achieve composite biochemical response at year 1 and 85% at year 2

Figure 3. ALP Normalization (A) and ALP Percent Change From BL (B) Through 36 Months of Seladelpar Treatment



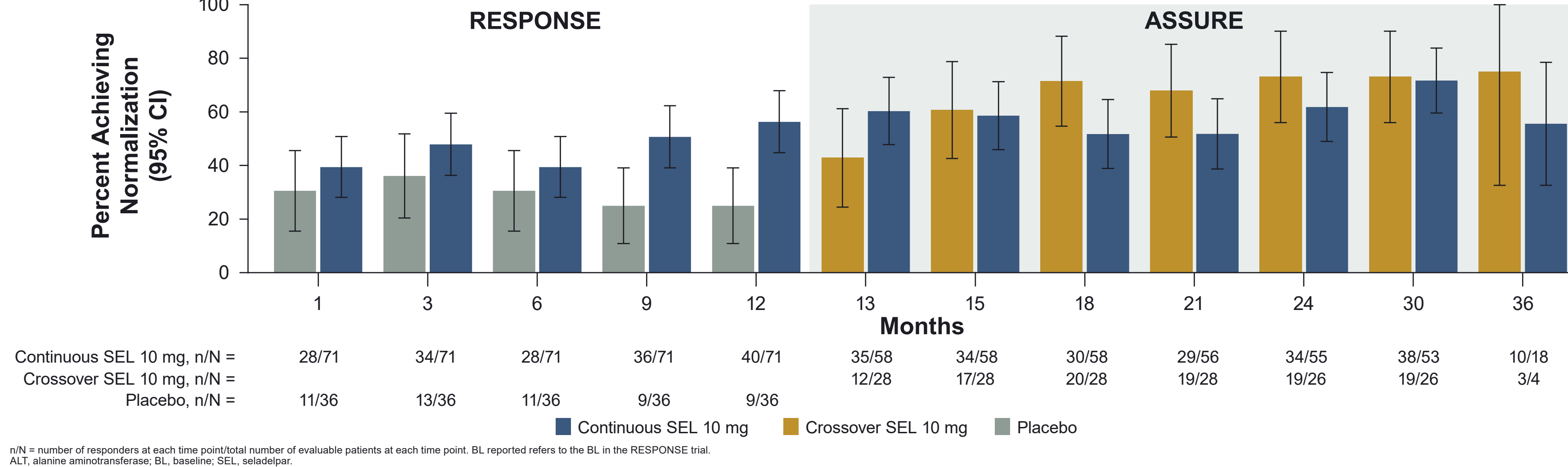
- For patients who started seladelpar in RESPONSE, ALP normalization achieved with seladelpar at year 1 (25%) was maintained after 36 months of exposure (24% at ASSURE year 2; Figure 3A)
- The RESPONSE placebo group had 0% of patients achieve ALP normalization at the end of RESPONSE. Following seladelpar treatment in ASSURE, 29% achieved ALP normalization at year 1 and 54% at year 2
- Seladelpar treatment led to a rapid and sustained reduction in ALP, which remained consistent for up to 36 months (Figure 3B)

Figure 4. Percent Change From BL in Total Bilirubin (A), ALT (B), GGT (C), and AST (D) and Box Plots of Percent Change From BL in Total Bilirubin (E) and AST (F) Through 36 Months of Seladelpar Treatment



- In both the seladelpar and placebo arms in RESPONSE, GGT and ALT levels demonstrated consistent reductions sustained through ASSURE year 2 upon seladelpar treatment (Figure 4)
- AST and total bilirubin were overall stable with the median showing a reduction from baseline through ASSURE year 2 in both arms

Figure 5. ALT Normalization Among Those With Elevated ALT at RESPONSE BL Through 36 Months of Seladelpar Treatment



- For patients who started seladelpar in RESPONSE, ALT normalization achieved with seladelpar at year 1 (56%) was maintained after 36 months of exposure (56% at ASSURE year 2; Figure 5)
- The RESPONSE placebo group had 25% of patients achieve ALT normalization at the end of RESPONSE. Following seladelpar treatment in ASSURE, 73% achieved ALT normalization at year 1 and 75% at year 2
- Seladelpar led to sustained, clinically meaningful improvement in pruritus among patients with moderate to severe pruritus in RESPONSE and with up to 30 months of treatment⁷

Table 2. Overall Safety Outcomes in RESPONSE and ASSURE

	RESPONSE ^a		ASSURE ^b	
n (%)	SEL 10 mg n = 128	Placebo n = 65	Continuous SEL n = 104	Crossover SEL n = 54
Any AE (at least one)	111 (87)	55 (85)	92 (88)	48 (89)
SAEs	9 (7)	4 (6)	15 (14)	12 (22)
Treatment-related SAEs	0	0	1 ^c (1)	0
Grade ≥ 3 AEs (per CTCAE)	14 (11)	5 (8)	19 (18)	11 (20)
AEs leading to treatment discontinuation	4 (3)	3 (5)	7 ^c (7)	2 ^c (4)
AEs leading to death	0	0	0	0
AEs of interest				
Liver-related AEs	8 (6)	6 (9)	17 (16)	8 (15)
Muscle-related AEs	8 (6)	5 (8)	8 (8)	2 (4)
Renal-related AEs	0	0	1 (1)	1 (2)

Data are presented as n (%). n = number of patients in the category. All AEs listed were treatment emergent unless otherwise stated. Safety data collected in RESPONSE were previously reported.⁴ Safety data reported were collected in the ASSURE trial only during seladelpar exposure as of January 31, 2025.⁶ ^aOne patient initially reported with Grade 3 colitis. ^bTwo patients initially reported with Grade 3 colitis. ^cOne patient initially reported with Grade 3 colitis. ^dOne patient initially reported with Grade 3 colitis. ^eOne patient initially reported with Grade 3 colitis. ^fOne patient initially reported with Grade 3 colitis. ^gOne patient initially reported with Grade 3 colitis. ^hOne patient initially reported with Grade 3 colitis. ⁱOne patient initially reported with Grade 3 colitis. ^jOne patient initially reported with Grade 3 colitis. ^kOne patient initially reported with Grade 3 colitis. ^lOne patient initially reported with Grade 3 colitis. ^mOne patient initially reported with Grade 3 colitis. ⁿOne patient initially reported with Grade 3 colitis. ^oOne patient initially reported with Grade 3 colitis. 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