

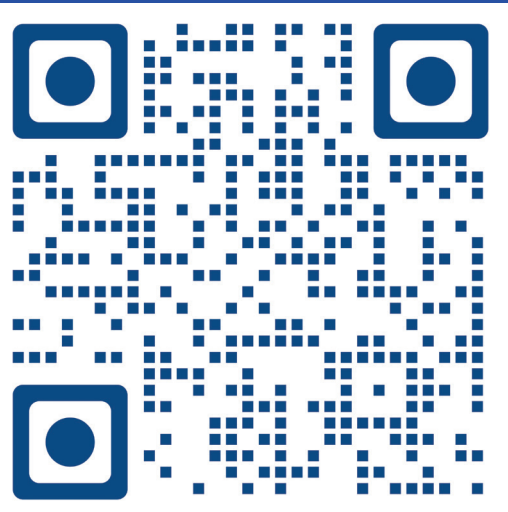
Acoramidis Improves Serum Transthyretin Levels in Patients With Wild-Type or Variant Transthyretin Amyloid Cardiomyopathy – Results From ATTRibute-CM

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PURPOSE

- To determine the effect of acoramidis on serum transthyretin (sTTR) levels in participants with variant (ATTRv-CM) or wild-type (ATTRwt-CM) transthyretin amyloid cardiomyopathy from the ATTRibute-CM study (NCT03860935)

BACKGROUND

- Transthyretin amyloid cardiomyopathy (ATTR-CM) is a progressive disease characterized by the destabilization of transthyretin (TTR), which can occur owing to age-related factors (ATTRwt-CM) or inherited mutations in the *TTR* gene that produce pathogenic variants (ATTRv-CM)^{1–3}
 - Greater TTR destabilization generally results in lower sTTR levels and an elevated risk of worse clinical disease^{3–5}
 - Patients with ATTRv-CM typically have lower sTTR levels and earlier disease onset followed by more rapid clinical progression than patients with ATTRwt-CM^{3,6}
- Acoramidis, an oral TTR stabilizer that achieves near-complete (≥ 90%) TTR stabilization, is approved in the USA, Europe, Japan, and the UK for the treatment of adults with ATTR-CM^{7–11}
- In the pivotal phase 3 ATTRibute-CM study, acoramidis treatment resulted in early (by Day 28) increases in sTTR levels that were sustained to Month 30, led to improved clinical outcomes compared with placebo (*p* < 0.0001), and was well tolerated¹²

METHODS

- The study design of ATTRibute-CM has been described previously¹²
- Briefly, adults aged 18–90 years with ATTR-CM were randomized 2:1 to receive acoramidis HCl 800 mg or matching placebo twice daily for 30 months¹²
 - Participants could initiate concomitant open-label tafamidis from Month 12 onwards, at the discretion of the investigator¹²
- Participants were diagnosed with ATTR-CM by either an endomyocardial biopsy or a positive technetium-99m-pyrophosphate or -biphosphonate scan
- Efficacy analyses were conducted in the modified intention-to-treat (mITT) population, consisting of all randomized participants who had received at least one dose of acoramidis or placebo, had at least one efficacy evaluation after baseline, and had a baseline estimated glomerular filtration rate ≥ 30 mL/min/1.73 m²
- sTTR concentrations were determined at baseline, on Day 28, and then every 3 months until Month 30 using a standardized clinical assay for sTTR performed in a central laboratory
- Percentage changes from baseline in sTTR levels were summarized descriptively

CONCLUSIONS

- In ATTRibute-CM, acoramidis treatment resulted in rapid (by Day 28) and sustained increases in sTTR levels through Month 30 in participants with ATTRv-CM or ATTRwt-CM
 - At baseline, sTTR levels were lower in participants with ATTRv-CM than in those with ATTRwt-CM
 - Acoramidis treatment led to greater mean changes from baseline in sTTR levels in participants with ATTRv-CM than in those with ATTRwt-CM, resulting in similar absolute sTTR levels in the two genotype groups from Day 28 to Month 30

RESULTS

- In the mITT population at randomization, 59 participants were identified as having ATTRv-CM (acoramidis, *n* = 39; placebo, *n* = 20) and 552 participants were identified as having ATTRwt-CM (acoramidis, *n* = 370; placebo, *n* = 182; **Table 1**)
- Baseline demographics and characteristics were generally similar between treatment groups and genotypes in the mITT population (*N* = 611; **Table 1**)
 - The three most common *TTR* variants were p.V142I (*n* = 35), p.I88L (*n* = 7), and p.T80A (*n* = 5; **Table 2**)
- Median (first quartile [Q1], third quartile [Q3]) baseline sTTR levels were lower in participants with ATTRv-CM (acoramidis, 19.0 [13.0, 21.0] mg/dL; placebo, 18.0 [12.5, 20.0] mg/dL) than in those with ATTRwt-CM (acoramidis, 23.0 [20.0, 27.0] mg/dL; placebo, 24.0 [21.0, 28.0] mg/dL; **Table 1**)

TABLE 1: Baseline Demographics and Characteristics by ATTR-CM Genotype; mITT Population (N = 611)^a

Baseline Demographic/Characteristic	Acoramidis (n = 409)		Placebo (n = 202)	
	ATTRv-CM (n = 39)	ATTRwt-CM (n = 370)	ATTRv-CM (n = 20)	ATTRwt-CM (n = 182)
Age, years, mean (SD)	73.9 (7.60)	77.7 (6.25)	71.2 (7.84)	77.6 (6.32)
Sex, n (%)				
Male	33 (84.6)	341 (92.2)	14 (70.0)	167 (91.8)
Female	6 (15.4)	29 (7.8)	6 (30.0)	15 (8.2)
NT-proBNP, pg/mL, median (Q1, Q3)	2326.0 (1312.0, 4567.0)	2264.5 (1315.0, 3729.0)	2340.5 (1521.5, 3534.0)	2273.5 (1105.0, 3590.0)
NYHA functional class, n (%)				
I	2 (5.1)	49 (13.2)	1 (5.0)	16 (8.8)
II	35 (89.7)	253 (68.4)	16 (80.0)	140 (76.9)
III	2 (5.1)	68 (18.4)	3 (15.0)	26 (14.3)
sTTR, mg/dL, median (Q1, Q3)	19.0 (13.0, 21.0)	23.0 (20.0, 27.0)	18.0 (12.5, 20.0)	24.0 (21.0, 28.0)

^aIn total, 59/611 participants were categorized as having ATTRv-CM at randomization; subsequently, mutations were identified in the clinical database in 56/611 participants.

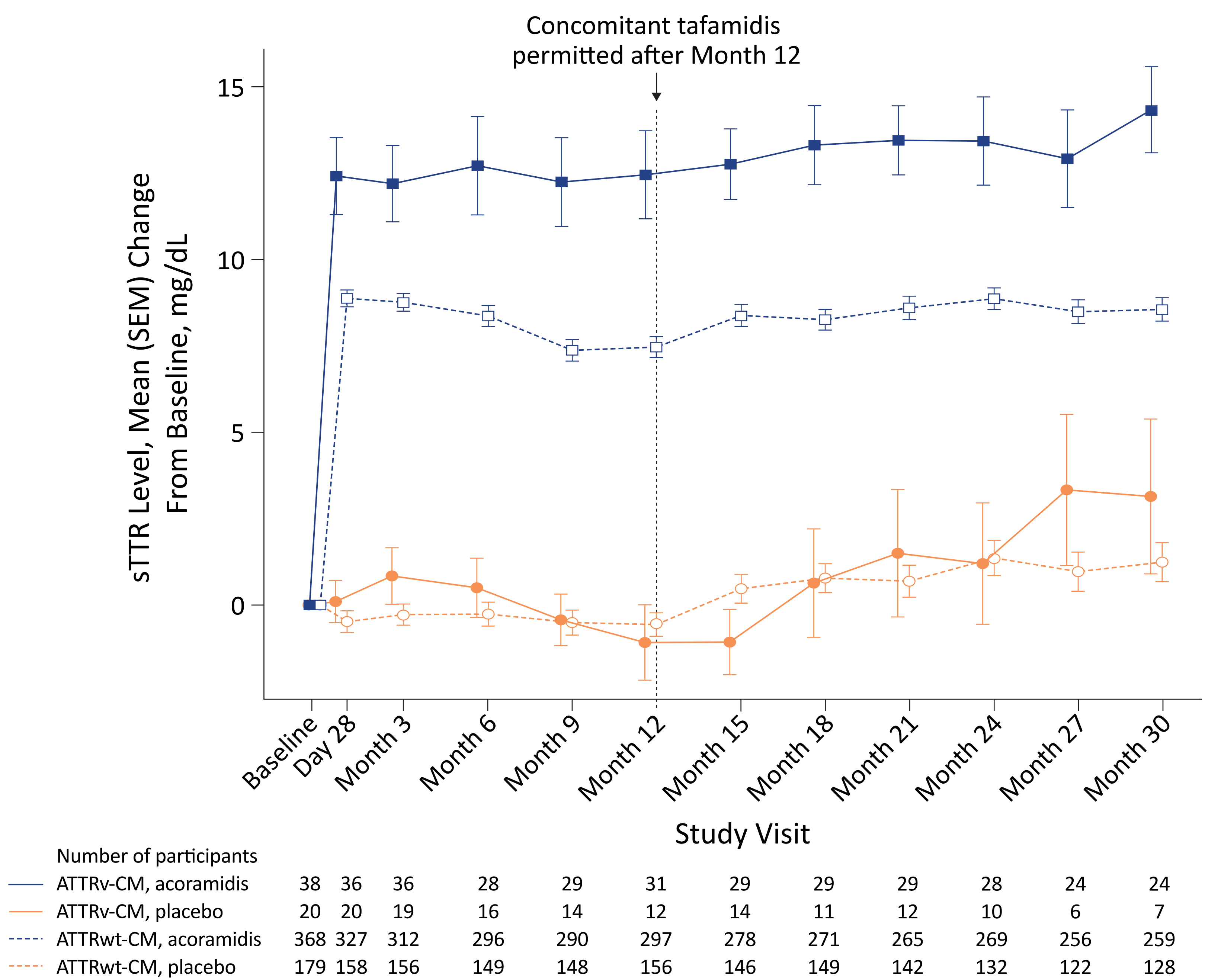
TABLE 2: Most Common *TTR* Variants; ATTRv-CM mITT Population (n = 56)^a

<i>TTR</i> Variant Genotype, n (%)	Acoramidis (n = 37)	Placebo (n = 19)
p.V142I	23 (62.2)	12 (63.2)
p.I88L	4 (10.8)	3 (15.8)
p.T80A	3 (8.1)	2 (10.5)

^aIn total, 59/611 participants were categorized as having ATTRv-CM at randomization; subsequently, mutations were identified in the clinical database in 56/611 participants.

- Acoramidis treatment led to rapid increases from baseline in sTTR levels at Day 28, which were sustained through Month 30 in participants with ATTRv-CM and those with ATTRwt-CM (**Figure 1**)

FIGURE 1: Mean Change From Baseline in sTTR Levels to Month 30; mITT Population (N = 611)



Data are shown for participants who had non-missing change from baseline values.

- These results demonstrate the ability of acoramidis to increase sTTR levels (a measure of TTR stabilization), irrespective of *TTR* genotype, and to overcome the lower baseline sTTR levels observed in the variant patient population
- Given the higher risk posed by ATTRv-CM than ATTRwt-CM, these results are of particular clinical relevance in meeting the distinct medical needs of the variant patient population

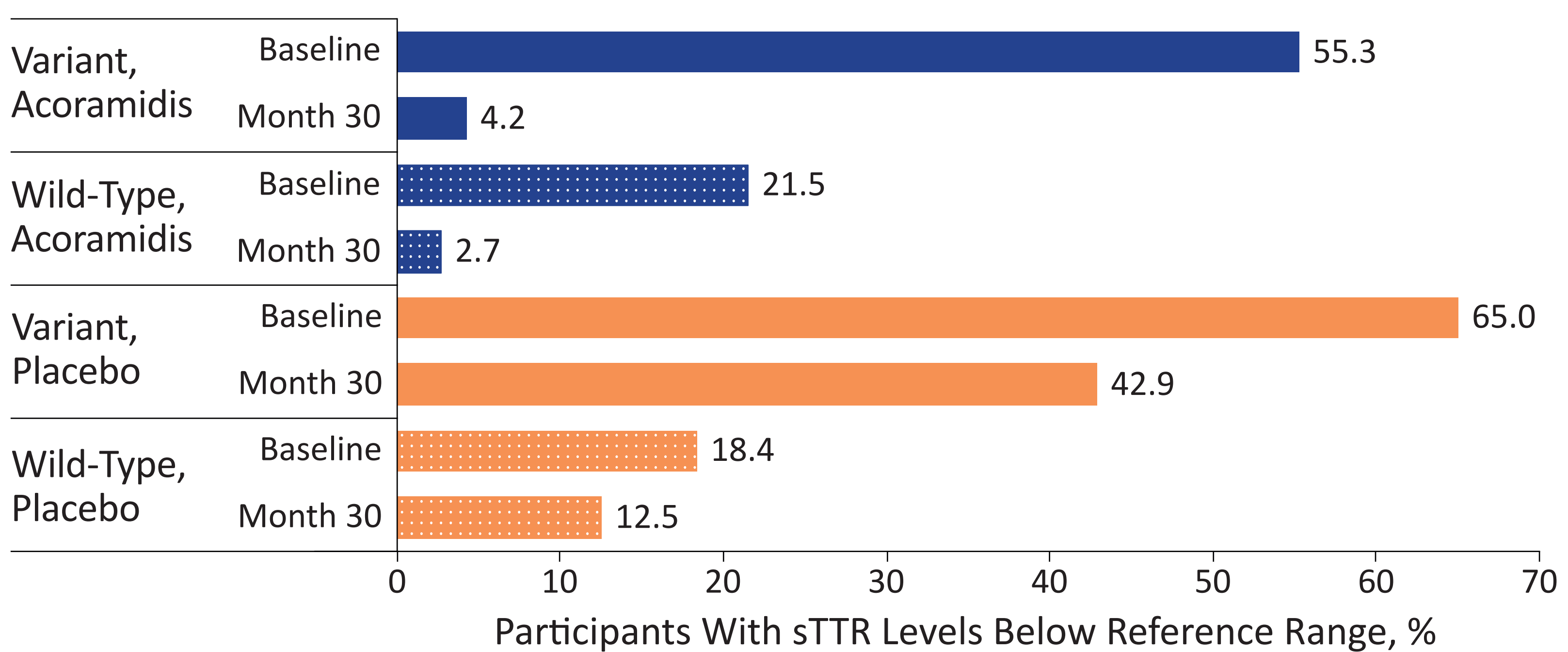
- Although participants with ATTRv-CM had lower baseline sTTR levels than those with ATTRwt-CM (**Table 1**), acoramidis treatment led to a greater mean change from baseline in sTTR levels in participants with ATTRv-CM than in those with ATTRwt-CM, resulting in similar absolute sTTR levels in the two genotype groups from Day 28 to Month 30 (**Table 3**)
 - Mean (SD) sTTR levels were 30.0 (6.5) mg/dL and 32.5 (6.5) mg/dL at Day 28, and 33.3 (6.3) mg/dL and 32.7 (6.2) mg/dL at Month 30, for participants with ATTRv-CM and ATTRwt-CM, respectively

TABLE 3: Absolute sTTR Levels at Day 28 and Month 30 Following Acoramidis Treatment; mITT Population (N = 611)

		ATTRv-CM (n = 39)	ATTRwt-CM (n = 370)
Day 28	n	37	328
	sTTR, mg/dL, mean (SD)	30.0 (6.5)	32.5 (6.5)
Month 30	n	24	260
	sTTR, mg/dL, mean (SD)	33.3 (6.3)	32.7 (6.2)

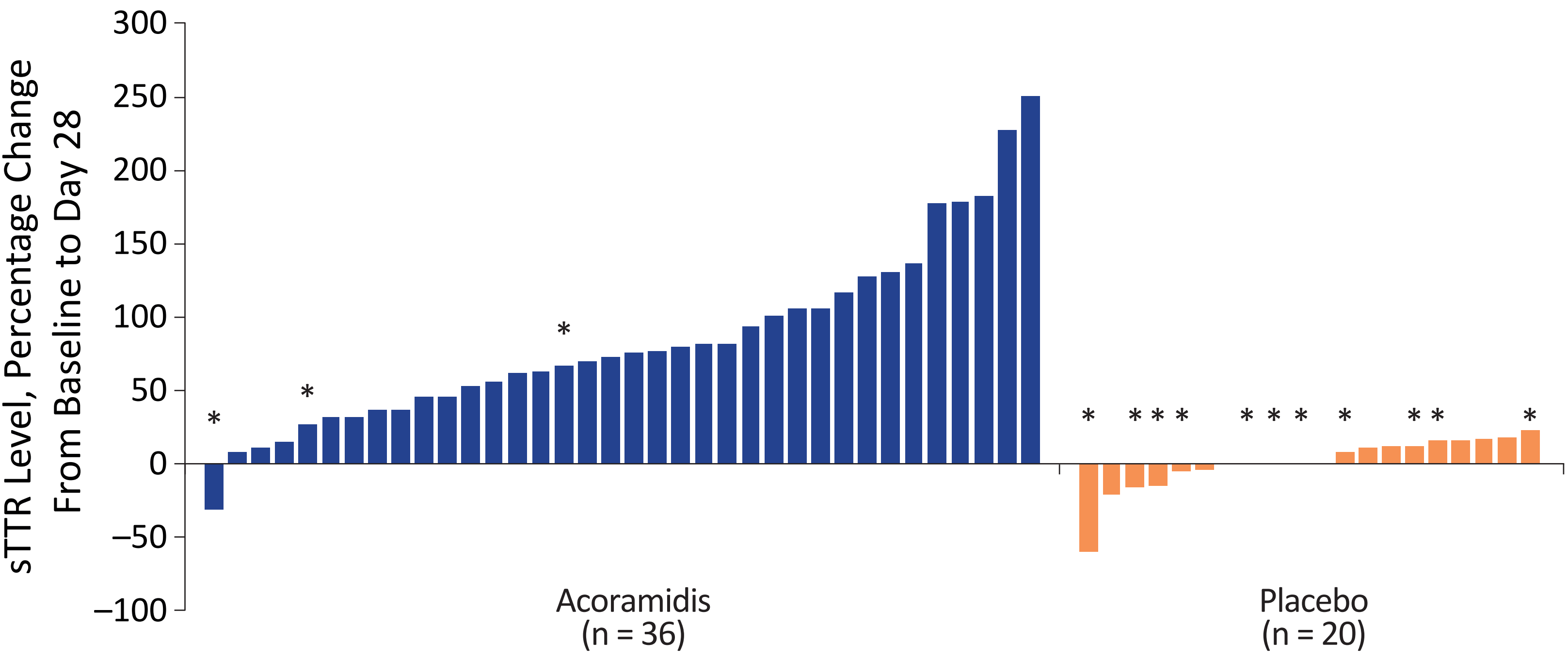
- At baseline in the acoramidis group, sTTR levels were below the reference range (< 20 mg/dL) in 55.3% of participants with ATTRv-CM and in 21.5% of participants with ATTRwt-CM (**Figure 2**)
- At Month 30, fewer than 5% of participants with ATTRv-CM and ATTRwt-CM had sTTR levels below the reference range following acoramidis treatment (**Figure 2**)
 - sTTR levels were below the reference range in a greater proportion of participants in the placebo group than in the acoramidis group at Month 30

FIGURE 2: Percentage of Participants With sTTR Levels Below the Reference Range (< 20 mg/dL) at Baseline and Month 30; mITT Population (N = 611)



- In participants with ATTRv-CM, acoramidis treatment led to increases in sTTR levels from baseline to Day 28 in 35 of 36 (97.2%) participants, whereas there was very little change in sTTR levels in the placebo group (**Figure 3**)

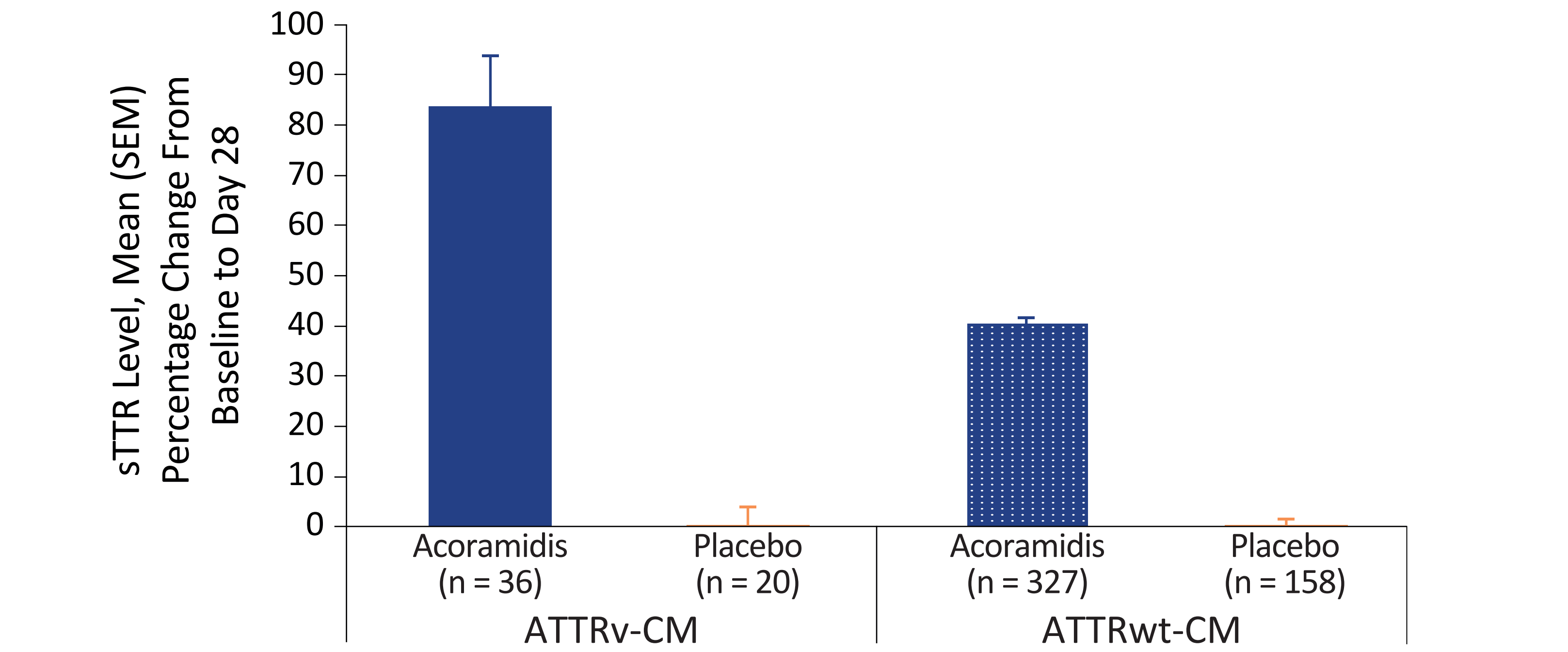
FIGURE 3: Percentage Change From Baseline to Day 28 in sTTR Levels for Each Participant With ATTRv-CM; mITT Population (N = 611)



Data are shown for participants who had sTTR levels recorded at baseline and Day 28. Asterisks indicate participants with sTTR levels below the lower limit of the reference range (< 20 mg/dL) at Day 28.

- Acoramidis treatment led to a greater mean percentage increase in sTTR levels at Day 28 in participants with ATTRv-CM than in those with ATTRwt-CM (83.7% vs 40.5%), whereas sTTR levels remained unchanged at Day 28 in the placebo group (**Figure 4**)

FIGURE 4: Mean Percentage Change From Baseline to Day 28 in sTTR Levels for Participants With ATTRv-CM and ATTRwt-CM; mITT Population (N = 611)



Data are shown for participants who had sTTR levels recorded at baseline and Day 28.

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ABBREVIATIONS: ATTR-CM, transthyretin amyloid cardiomyopathy; ATTRv-CM, variant transthyretin amyloid cardiomyopathy; ATTRwt-CM, wild-type transthyretin amyloid cardiomyopathy; mITT, modified intention-to treat; NT-proBNP, N-terminal pro-B-type natriuretic peptide; NYHA, New York Heart Association; Q1, first quartile; Q3, third quartile; SD, standard deviation; SEM, standard error of the mean; sTTR, serum transthyretin; TTR, transthyretin.

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