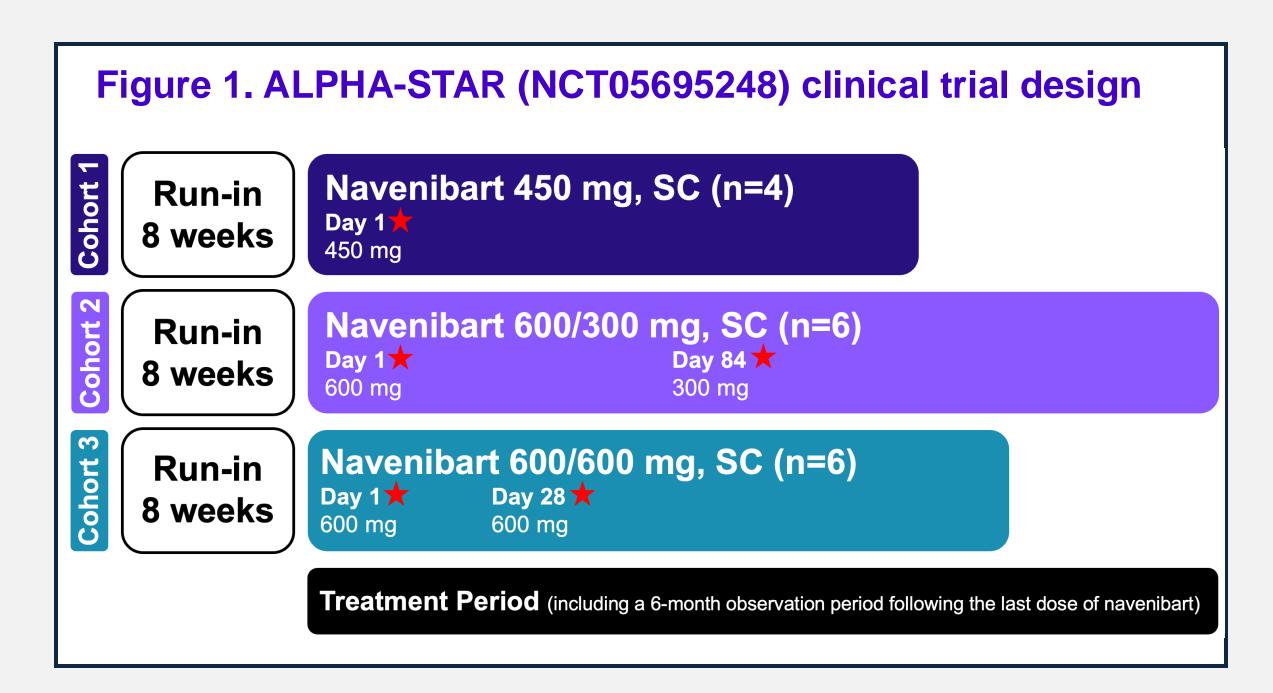
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OBJECTIVE

Discuss final results from target enrollment (n=16) in the ALPHA-STAR (NCT05695248) clinical trial assessing HAE attack severity (mild/moderate/severe) and the number of HAE attacks requiring ondemand therapy after navenibart (STAR-0215) subcutaneous (SC) administration.



SUMMARY

- THERE WERE NO SEVERE ATTACKS DURING THE 6-MONTH OBSERVATION PERIOD FOLLOWING EITHER 1 OR 2 DOSES OF NAVENIBART.
- THE NEED FOR ACUTE TREATMENT FOR ATTACKS WAS GREATLY REDUCED COMPARED TO THE BASELINE PERIOD.
- MONTHLY ATTACK RATE, COMPARED TO THE RUN-IN BASELINE, WAS REDUCED BY 91-95% DURING THE 6 MONTHS FOLLOWING THE FIRST DOSE.
- NAVENIBART WAS WELL-TOLERATED; THERE WERE NO SEVERE OR SERIOUS TREATMENT EMERGENT ADVERSE
- 4 EVENTS (TEAES) AND NO DISCONTINUATIONS DUE TO TEAES.

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INTRODUCTION

- Hereditary angioedema is a rare, autosomal dominant disease associated with a high disease and treatment burden.
- Navenibart is the first investigational monoclonal antibody with an extended half-life exhibiting rapid and sustained inhibition of plasma kallikrein.

METHODS

- After wash-out from long-term preventative therapies (LTPs), if applicable, participants entered a Run-in Period of 2 months (Baseline), during which they had to have ≥2 attacks.
- Participants were enrolled sequentially into 1 of 3 treatment cohorts (**Figure 1**).
- HAE attacks were assessed throughout the study to evaluate the efficacy of navenibart. Assessment of HAE attacks included attack location, severity, timing, and treatment.

RESULTS

DEMOGRAPHICS, BASELINE CHARACTERISTICS AND SAFETY

- The mean age was 46 years, and 9 (56%) of 16 participants were female. 88% of participants had HAE-C1INH Type 1.
- All TEAEs were mild to moderate in severity, and most TEAEs were assessed as not related to navenibart (**Table 1**).
- No severe, serious, or fatal TEAEs were reported, and no participant discontinued navenibart or the trial because of a TEAE.

Table 1. Cumulative safety in ALPHA-STAR participants

	Naveniba rt 450 mg (N = 4)	Naveniba rt 600/300 mg (N = 6)	Naveniba rt 600/600 mg (N = 6)	Navenibar t Total (N = 16)
At least 1 TEAE, n (%)	4 (100)	5 (83)	6 (100)	15 (94)
TEAEs occurring in ≥2 participants Nasopharyngitis Sinusitis Headache	1 (25) - 2 (50)	1 (17) 1 (17) -	2 (33) 1 (17) -	4 (25) 2 (13) 2 (13)
Participants with ≥1 navenibart- related TEAE¹, n (%) Injection site erythema Injection site pruritus Injection site rash Dizziness	- - - -	- - - 1 (17)	2 (33) 1 (17) 1 (17) 1 (17)	3 (19) 1 (6) 1 (6) 1 (6) 1 (6)

At least 1 Serious TEAE, n (%)

TEAE leading to trial discontinuation, n (%)

TEAE leading to death, n (%)

Data cutoff date: 04 Sep 2024; TEAE = treatment emergent adverse event; ¹If a participant experienced > 1 event in a given category, that participant is counted only once in that category.

One participant experienced mild dizziness occurring 6 days after the first dose in Cohort 2 and lasting < 1 day. One participant experienced 2 injection site reactions: injection site erythema and injection site pruritus occurring 1 day after the second dose in Cohort 3 and lasting < 1 day. One participant experienced injection site rash occurring 5 days after the second dose in Cohort 3 and lasting < 1 day.

REDUCTION IN HAE ATTACK SEVERITY AND RESCUE MEDICATION USE

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- Rates of moderate and severe attacks (**Figure 2**) and attacks requiring rescue medication (**Figure 3**) significantly decreased in each cohort.
- Before the treatment period commenced, 4 (100%) of 4 participants in Cohort 1, 5 (83%) of 6 in Cohort 2, and 6 (100%) of 6 in Cohort 3 required rescue medication for at least one attack during the 56-day run-in period.
- Throughout the treatment and Follow-up Periods, 2 (50%) of 4 participants in Cohort 1, 3 (50%) of 6 in Cohort 2, and 2 (33%) of 6 in Cohort 3 utilized rescue medication.

Figure 2. Mean Time-Normalized Moderate or Severe Attacks

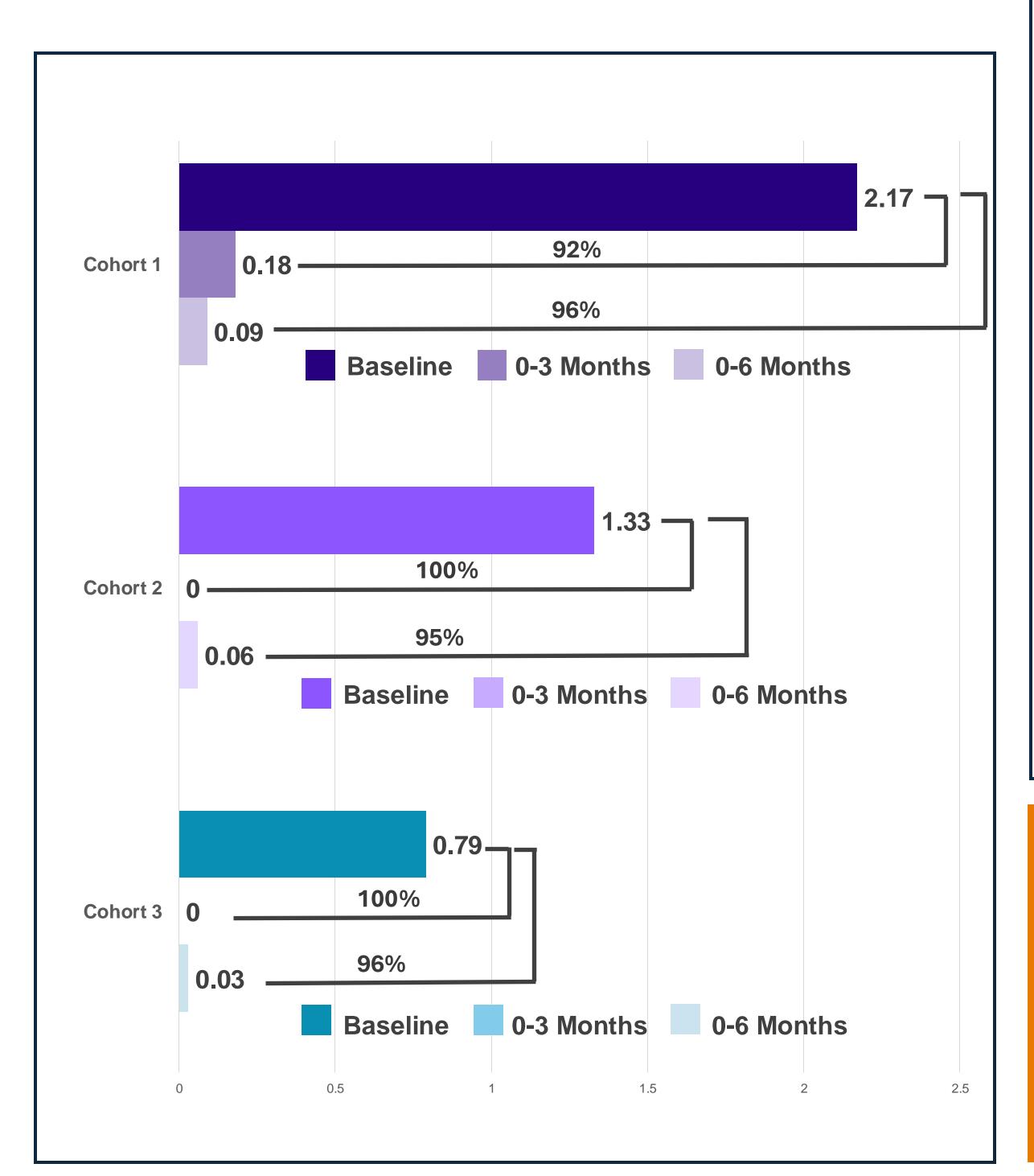
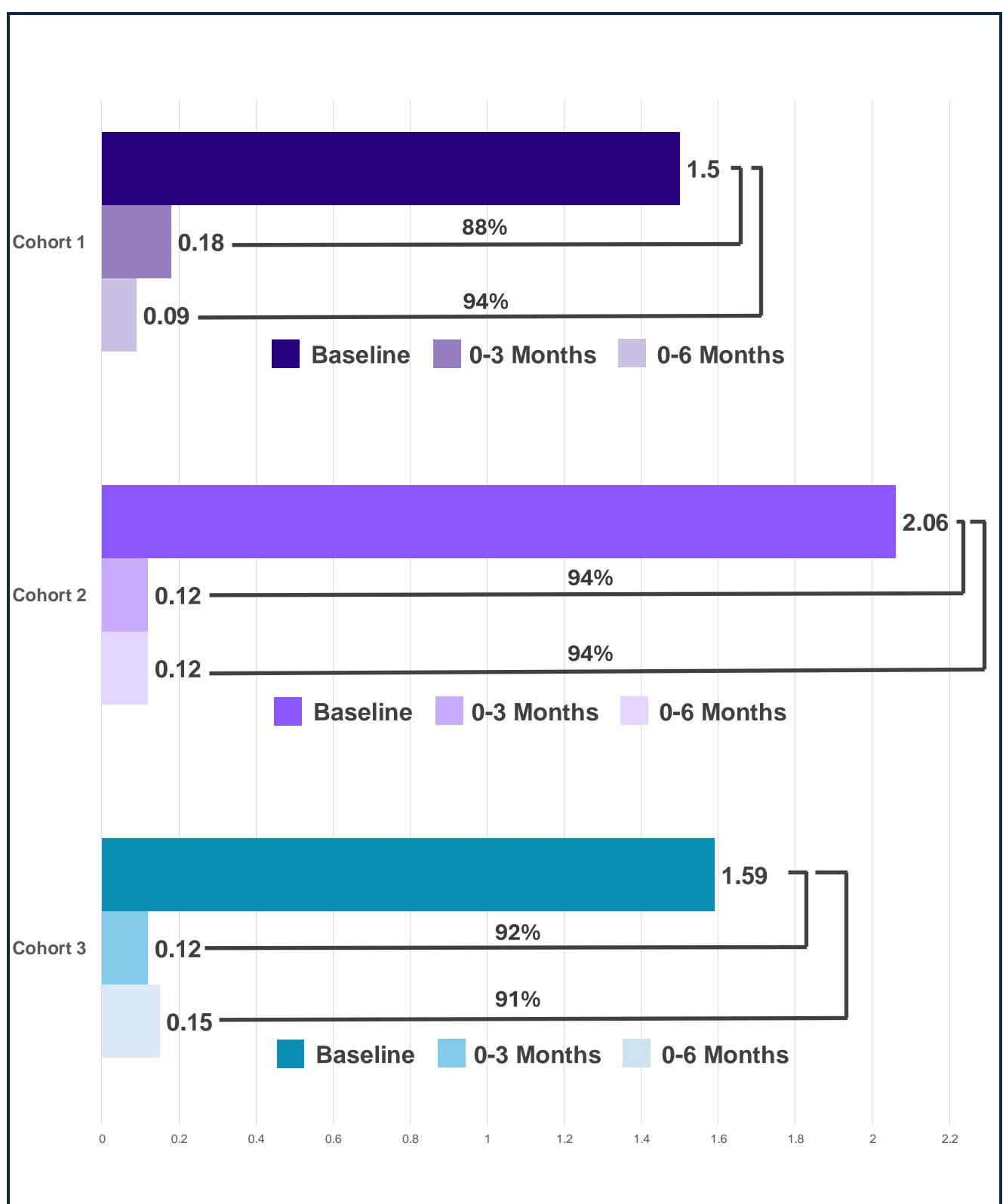


Figure 3. Changes in Time-Normalized Attacks Requiring Rescue Medication by Cohort



CONCLUSIONS

- Navenibart was well-tolerated and, compared to baseline, significantly reduced the number, severity, and acute treatment of HAE attacks following navenibart's single- or multiple-dose administration.
- These data suggest that navenibart may be a valuable prophylactic treatment option for patients with HAE-CINH Type 1 or 2 and warrants further evaluation in a phase 3 trial.