Treatment of HAE attacks with oral deucrictibant: RAPIDe-2 extension results

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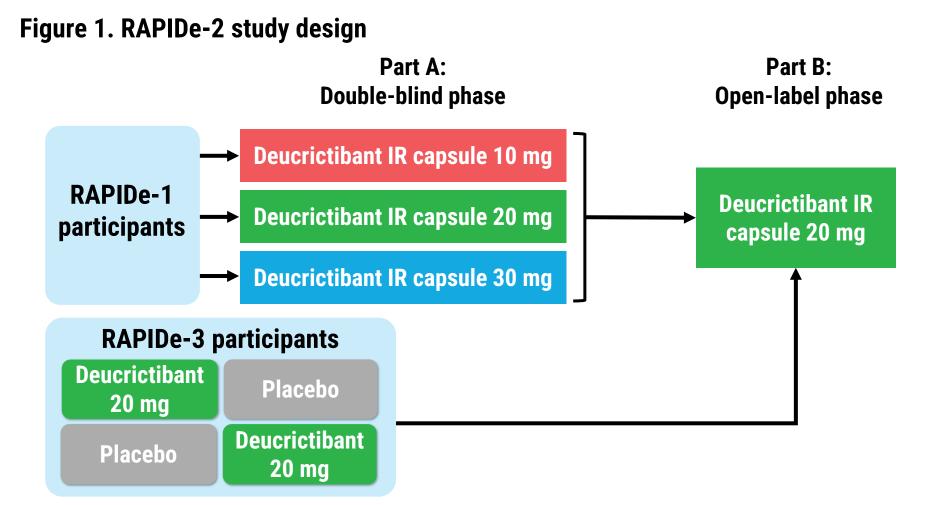
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Rationale

- International guidelines recommend that hereditary angioedema (HAE) attacks are treated as early as possible. 1-3
- The burden associated with parenteral administration of currently approved on-demand medications⁴⁻⁸ often leads to treatment of HAE attacks being delayed or forgone.⁹⁻¹³
- An unmet need exists for on-demand oral therapies that are effective and well-tolerated and may reduce the treatment burden by enabling prompt administration.¹³
- Deucrictibant is a selective, orally administered bradykinin B2 receptor antagonist under development for prophylactic and on-demand treatment of HAE attacks. 14-19
- In the RAPIDe-1 Phase 2 trial (NCT04618211),¹⁴ deucrictibant immediate-release (IR) capsule reduced time to onset of symptom relief and to resolution of HAE attacks vs placebo; treatment was well-tolerated.¹⁵

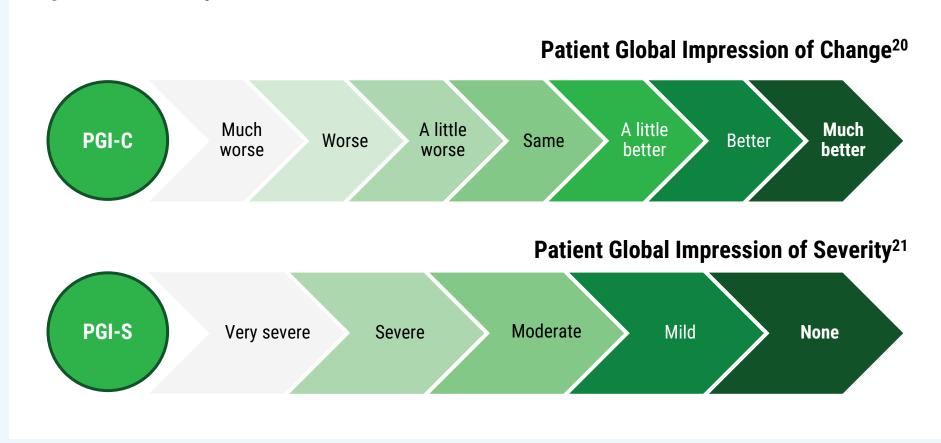
Methods

- RAPIDe-2 (NCT05396105)^{16*} is an ongoing two-part Phase 2/3 extension study evaluating long-term safety and efficacy of orally administered deucrictibant IR capsule for the treatment of HAE attacks.
- Part A enrolls adult (≥18 years) participants who completed RAPIDe-1. Participants continue self-administering the same double-blinded dose of deucrictibant IR capsule (10 mg, 20 mg, or 30 mg) received in RAPIDe-1 to treat qualifying nonlaryngeal attacks (≥1 symptom with Visual Analogue Scale score ≥30), and laryngeal attacks presenting without breathing difficulties (**Figure 1**).



- IR, immediate-release
- The primary endpoint assesses safety, including treatment-emergent adverse events (TEAEs), clinical laboratory tests, vital signs, and electrocardiogram (ECG) findings.
- Patient-reported outcome (PRO) tools are used to assess efficacy (**Figure 2**), with data collection pre-specified at pre-treatment, every hour up to 6 hours, and then at 8, 12, 24, and 48 hours, from administration of deucrictibant IR capsule.
- Key efficacy endpoints (Figure 2) include:
- Onset of symptom relief, defined as Patient Global Impression of Change (PGI-C) rating of at least "a little better" for 2 consecutive timepoints by 12 hours post-treatment.
- Time to reduction in attack severity, defined as achieving ≥1 point reduction in the Patient Global Impression of Severity (PGI-S) from pretreatment for 2 consecutive timepoints by 12 hours post-treatment.
- Proportion of attacks achieving complete attack resolution, defined as achieving PGI-S rating of "none" at 24 hours post-treatment.

Figure 2. Efficacy assessment scales



Results

- The RAPIDe-2 Part A combined-dose group results are reported here.
- A total of 265 attacks from 17 participants were included in the modified intention-to-treat efficacy analysis set (data cutoff: 1 March 2024), defined as all participants who had ≥1 attack treated with deucrictibant and non-missing PGI-C results from ≥1 post-treatment timepoint.
- A total of 337 attacks from 19 participants were included in the safety analysis set (data cutoff: 10 June 2024), defined as all participants who received any dose of deucrictibant in the study.
- 7 of 337 attacks were laryngeal.
- Baseline characteristics were consistent with the RAPIDe-1 Phase 2 trial (**Table 1**).

Results

Table 1. Baseline characteristics

	Deucrictibant IR capsule (All doses)
Number of attacks treated ^a	337
Number of participants ^a	19
Age in years, mean (SD)	42.7 (17.6)
Sex: Male/female, n (%)	7 (36.8) / 12 (63.2)
Race: White/other	18 / 1
BMI, mean (SD)	27.0 (3.8)
Years since HAE diagnosis, mean (SD)	21.7 (15.2)
HAE type, n (%)	
HAE-1	17 (89.5)
HAE-2	2 (10.5)

Safety

- Deucrictibant was well-tolerated across all doses, with no treatment-related TEAEs (**Table 2**).
- No treatment-related serious or severe TEAEs, no treatment-related TEAEs in laboratory parameters, vital signs, or ECG findings, and no TEAEs leading to treatment discontinuation, study withdrawal, or death were reported.

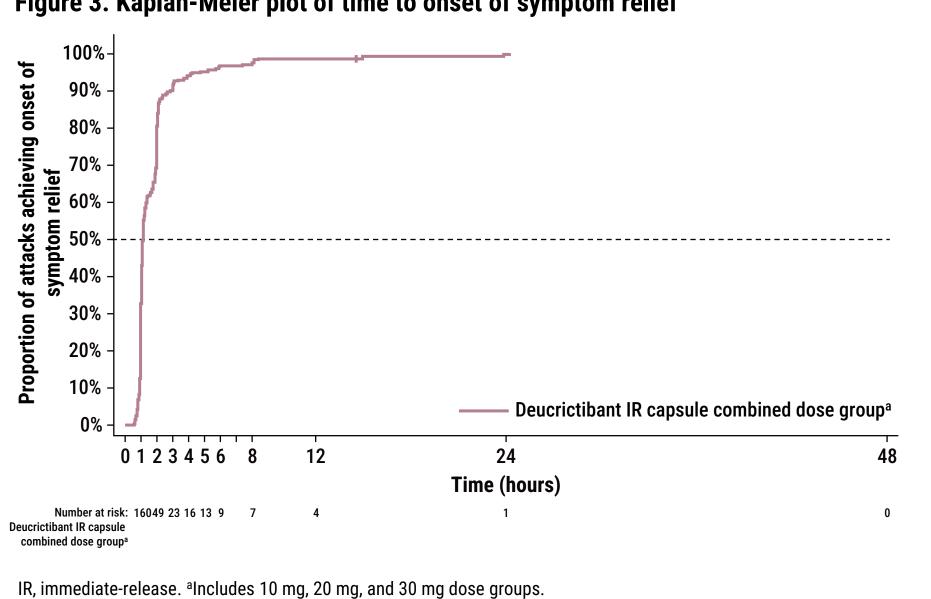
Table 2. TEAEs within 5 days after administration of study drug

Deucrictibant IR capsule (All doses)
337
19
13 (3.9)
0
1 ^b
0
0

Efficacy

- The median time to onset of symptom relief was 1.1 hours (95% CI, 1.0, 1.2) (**Figure 3, Table 3**).
- 98.5% (261/265) of attacks achieved onset of symptom relief by 12 hours (**Table 3, Figure 4**).

Figure 3. Kaplan-Meier plot of time to onset of symptom relief



pre-treatment PGI-S.

Table 3. Median time to achieving key efficacy endpoints

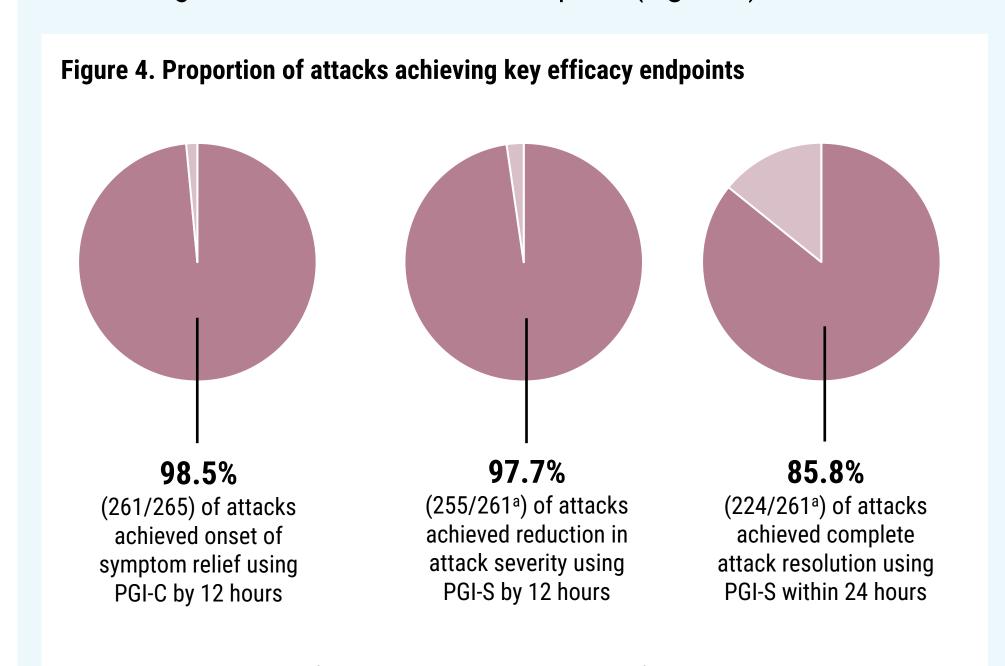
	Deucrictibant IR caps (All doses)
Number of attacks treated ^a	265
Number of participants with treated attacks ^a	17
Median time to onset of symptom relief by PGI-C, hours (95% CI)	1.1 (1.0, 1.2)
Median time to reduction in attack severity by PGI-S,b hours (95% CI)	2.6 (2.0, 2.9)
Median time to complete attack resolution by PGI-S,b hours (95% CI)	11.5 (11.0, 13.0)

This presentation includes data for an investigational product not yet approved by regulatory authorities.

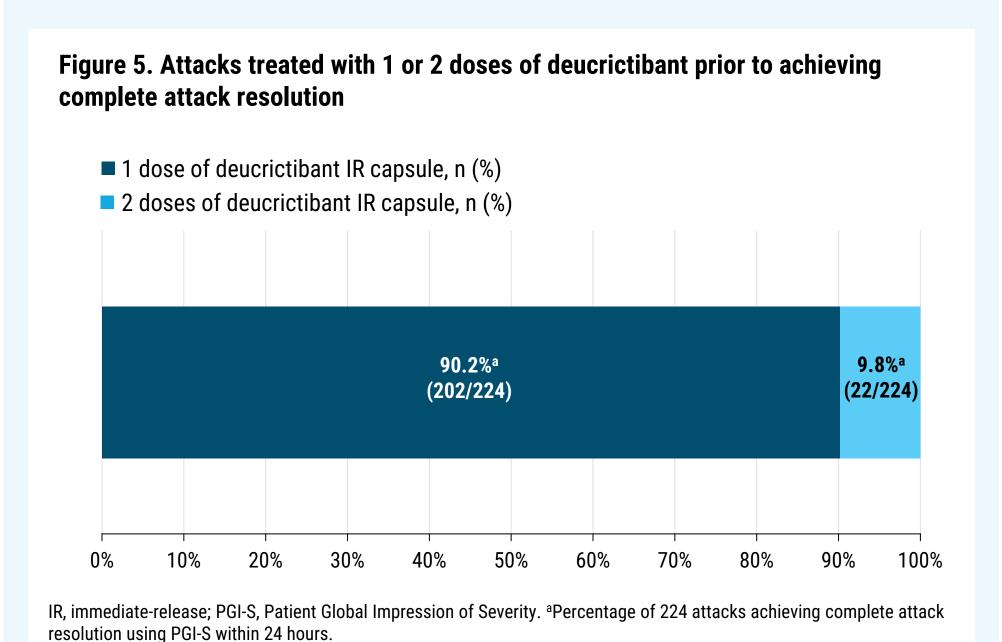
in the modified intention-to-treat efficacy analysis set (data cutoff: 01 March 2024). b261 attacks have non-missing

Results

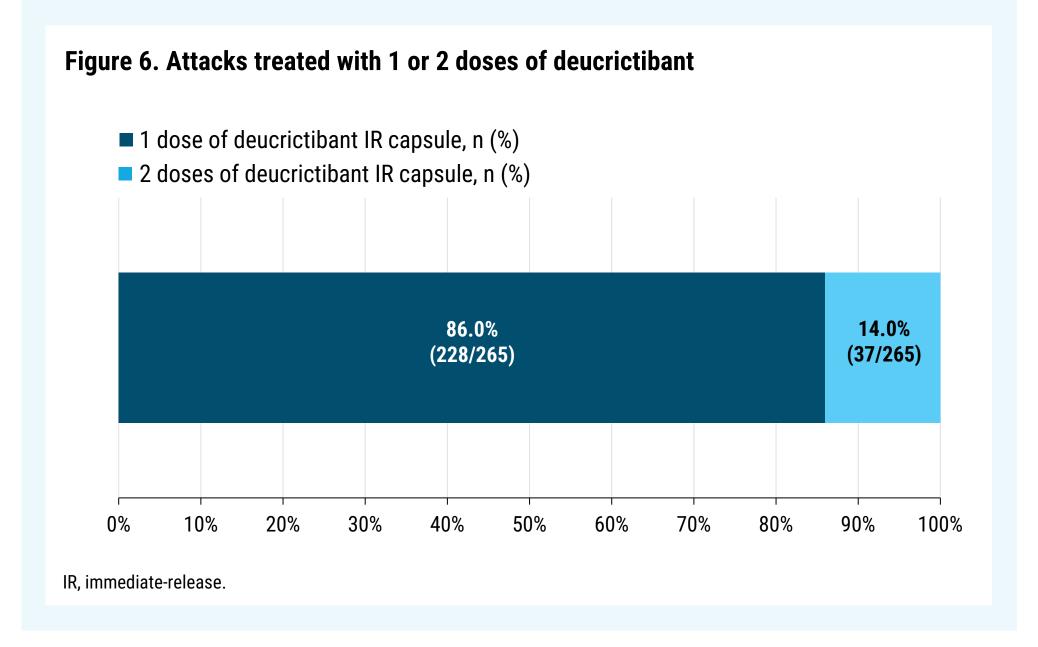
• 85.8% (224/261) of attacks achieved complete attack resolution within 24 hours (**Figure 4**). 90.2% (202/224) of attacks achieved this milestone with a single dose of deucrictibant IR capsule (**Figure 5**).



PGI-C, Patient Global Impression of Change; PGI-S, Patient Global Impression of Severity. ^a261 attacks have non-missing pre-treatment PGI-S.



• A total of 86.0% (228/265) of all attacks were treated with a single dose of deucrictibant IR capsule (**Figure 6**).



Conclusions

- In the current analysis of the ongoing RAPIDe-2 Phase 2/3 extension study, deucrictibant IR capsule was well-tolerated for all studied doses with no new safety signals observed.
- Efficacy analysis showed:
- 1.1 hours median time to onset of symptom relief by PGI-C 98.5% of attacks by 12 hours.
- 2.6 hours median time to reduction in attack severity by PGI-S 97.7% of attacks by 12 hours.
- 11.5 hours median time to complete attack resolution by PGI-S 85.8% of attacks within 24 hours.
- 86.0% of attacks were treated with a single dose of deucrictibant IR capsule.
- Results from the ongoing RAPIDe-2 extension are consistent with the Phase 2 RAPIDe-1 study and provide evidence on the long-term safety and efficacy of deucrictibant IR capsule for repeat treatment of HAE attacks.

References

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