

APAAACI 2024 CONGRESS

12-15 DECEMBER 2024 I KUALA LUMPUR, MALAYSIA

New Paradigm in Allergy, Asthma, and Immunology: From Augmented Intelligence, Exposomes to Precision Medicine

www.apaaaci2024.com





PERSATUA



RAPIDe-2 Study: Long-term Efficacy and Safety of Oral Deucrictibant for Treatment of Hereditary Angioedema Attacks

Markus Magerl, Emel Aygören-Pürsün, Laurence Bouillet, Hugo Chapdelaine, Henriette Farkas, Delphine Gobert, Roman Hakl, Ramon Lleonart, Avner Reshef, Giuseppe Spadaro, Maria Staevska, Marcin Stobiecki, Justin Sun, Anna Valerieva, Li Zhu, Ming Yu, Giorgio Giannattasio, Peng Lu, Marcus Maurer*

> APAAACI 2024 Kuala Lumpur, Malaysia; 12-15 December 2024

*Our distinguished colleague and friend, Prof. Marcus Maurer, sadly passed away during the finalization of this slide presentation.

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

APAAACI 2024 CONGRESS Conflicts of interest disclosure



Grants/research support, honoraria or consultation fees, sponsored speaker bureau

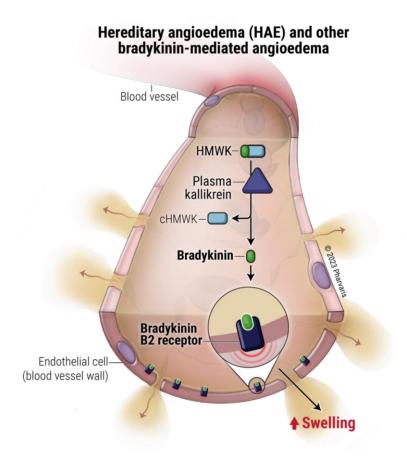
M.Mag.: BioCryst, CSL Behring, Intellia, KalVista, Novartis, Octapharma, Pharming, Pharvaris, Takeda;
E.A.-P.: Astria, BioCryst, BioMarin, CSL Behring, Intellia, KalVista, Pharming, Pharvaris, Takeda;
L.B.: BioCryst, Blueprint, CSL Behring, Novartis, Takeda; H.C.: AstraZeneca (Alexion), CSL Behring, KalVista, Merck, Novartis, Pharming, Pharvaris, Roche, Sanofi, Sobi, Takeda; H.F.: BioCryst, CSL Behring, Intellia, KalVista, ONO Pharmaceutical, Pharming, Pharvaris, Takeda; D.G.: Pharming, Takeda; R.H.: BioCryst, CSL Behring, KalVista, Pharming, Pharvaris, Takeda; R.L.: BioCryst, CSL Behring, Ionis, KalVista, Novartis, Pharming, Pharvaris, Takeda;
A.R.: BioCryst, CSL Behring, Pharming, Pharvaris, Stallergens, Takeda, Teva; G.S.: Pharvaris, Takeda; M.Sta.: none;
M.Sto.: BioCryst, CSL Behring, KalVista, Pharming, Takeda; A.V.: AstraZeneca, Berlin-Chemie/Menarini Group, CSL Behring, KalVista, Novartis, Pharming, Pharvaris, Sobi, Takeda; J.S., L.Z., M.Y., G.G.: employees of Pharvaris, hold stocks in Pharvaris; P.L.: employee of Pharvaris, holds stocks/stock options in Pharvaris;
M.Mau.: Adverum, Attune, BioCryst, CSL Behring, KalVista, Pharming, Pharvaris, Takeda



Acknowledgments: Medical writing services were provided by Scott Salsman, Ph.D. of Two Labs Pharma Services.

APAAACI 2024 CONGRESS Hereditary angioedema (HAE) is a bradykininmediated condition with unmet medical needs





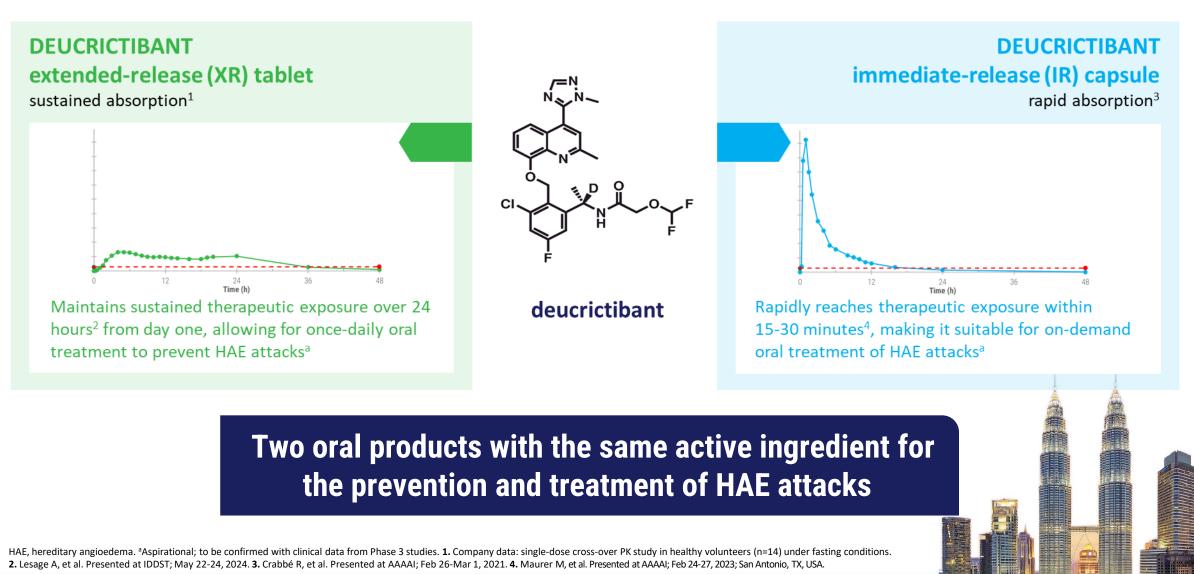
- International guidelines recommend that HAE attacks are treated as early as possible.¹⁻³
- Burden associated with parenteral administration of currently approved on-demand medications⁴⁻⁸ leads to treatment of a number of HAE attacks being delayed or forgone.⁹⁻¹³
- An unmet need exists for on-demand oral therapies that are effective and well tolerated and may reduce the treatment burden thus enabling prompt administration.¹³

cHMWK, cleaved HMWK; HMWK, high-molecular-weight kininogen. 1. Betschel S, et al. *Allergy Asthma Clin Immunol*. 2019;15:72. 2. Busse PJ, et al. *J Allergy Clin Immunol Pract*. 2021;9:132-50.
3. Maurer M. et al. *Allergy*. 2022;77:1961-90. 4. Berinert[®]. Package insert. Accessed November 12, 2024. https://labeling.cslbehring.com/pi/us/berinert/en/berinert-prescribing-information.pdf;
5. Cinryze[®]. Summary of product characteristics. Accessed November 12. https://www.ema.europa.eu/en/documents/product-information/cinryze-epar-product-information_en.pdf; 6. Firazyr[®]. Package insert. Accessed November 12, 2024. https://www.shirecontent.com/PI/PDFs/Firazyr_USA_ENG.pdf; 7. Kalbitor[®]. Package insert. Accessed November 12, 2024. https://www.shirecontent.com/PI/PDFs/Kalbitor_USA_ENG.pdf; 8. Ruconest[®]. Package insert. Accessed November 12, 2024. https://www.ruconest.com/wp-content/uploads/Ruconest_PI_Apr2020.pdf;
9. Burnette A, et al. Presented at: AAAAI; February 24–27, 2023; San Antonio, TX, USA. 10. Tuong LA, et al. *Allergy Asthma Proc* 2014;35:250-4. 11. Center for Biologics Evaluation and Research. The voice of the patient–Hereditary angioedema. US Food and Drug Administration. Accessed November 12, 2024. https://www.fda.gov/media/113509/download; 12. Radojicic C, et al. Presented at: AAAAI; February 24–27, 2023; San Antonio, TX, USA. 13. Mendivil J, et al. Presented at: ACAAI; November 9–13, 2023; Anaheim, CA, USA.



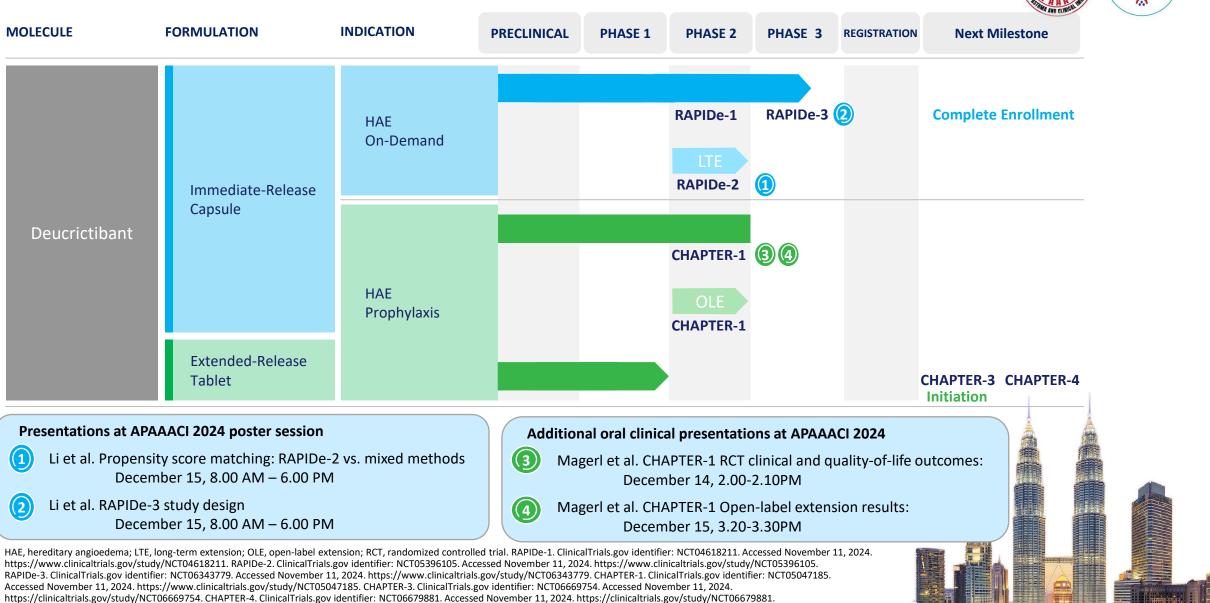
APAAACI 2024 CONGRESS Deucrictibant under development for the prophylactic and on-demand treatment of HAE attacks





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

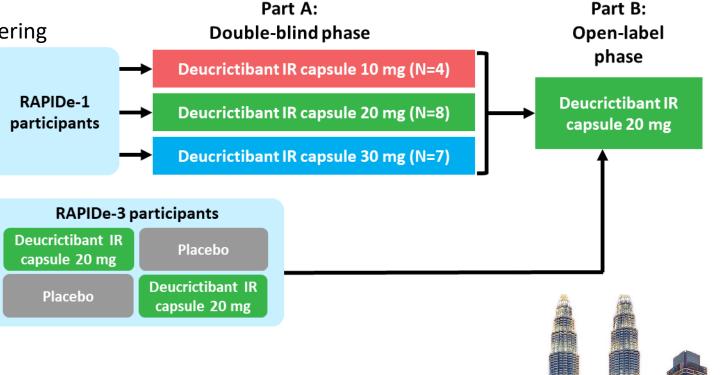
APAAACI 2024 CONGRESS Deucrictibant development program in HAE



APAAACI 2024 CONGRESS RAPIDe-2 objectives and study design



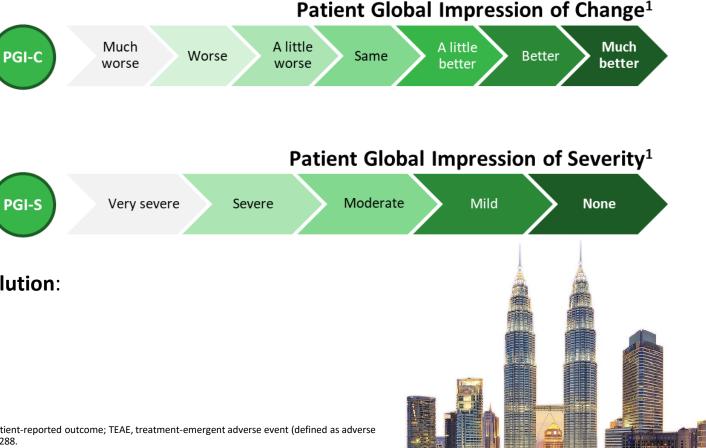
- RAPIDe-2¹ is an ongoing, two-part, Phase 2/3 extension study evaluating long-term safety and efficacy
 of orally administered deucrictibant IR capsule for the treatment of HAE attacks.
 - Part A enrolls adult (≥18 years) participants who completed RAPIDe-1².
 - In Part A, participants continue self-administering the same double-blinded dose of deucrictibant IR capsule (10 mg, 20 mg, or 30 mg) received in RAPIDe-1 to treat qualifying non-laryngeal attacks
 (≥1 symptom with Visual Analogue Scale score ≥30), and laryngeal attacks presenting without breathing difficulties.
 - This presentation reports the data from the RAPIDe-2 Part A combined-dose group at the date of cutoff.



HAE, hereditary angioedema; IR, immediate-release. **1.** RAPIDe-2. ClinicalTrial.org identifier NCT05396105. Accessed November 18, 2024. https://clinicaltrials.gov/study/NCT05396105. **2.** RAPIDe-1. ClinicalTrials.gov/identifier: NCT04618211. Accessed November 18, 2024. https://www.clinicaltrials.gov/study/NCT04618211.

APAAACI 2024 CONGRESS Study endpoints

- Primary endpoint: Safety, including TEAEs, clinical laboratory tests, vital signs, and ECG findings.
- Efficacy: Assessed using PRO tools.
- Secondary efficacy endpoints:
- Time to onset of symptom relief:
 PGI-C rating of at least "a little better" for
 2 consecutive timepoints by 12 hours post-treatment
- Time to reduction in attack severity:
 ≥1-level reduction in PGI-S from pre-treatment for
 2 consecutive timepoints by 12 hours post-treatment
- Time to substantial symptom relief:
 PGI-C rating of at least "better" for
 2 consecutive timepoints by 12 hours post-treatment
- Proportion of attacks achieving complete attack resolution:
 PGI-S rating of "none" at 24 hours post-treatment





Ye

Ra

BMI, body mass index; HAE, hereditary angioedema; IR, immediate-release; mITT, modified intention-to-treat; PGI-C, Patient Global Impression of Change; SD, standard deviation. ^aThe baseline characteristics of RAPIDe-2 participants at RAPIDe-1 initiation are shown. bAll participants who had >1 attack treated with deucrictibant and non-missing PGI-C results from >1 post-treatment timepoint. cAll participants who received any dose of deucrictibant in the study. ^dNumber by the cutoff date of 10 June 2024.

CONGRESS	Baseline characteristics ^a

265 attacks from 17 participants included	
in the mITT efficacy analysis set	
(data cutoff: 01 March 2024). ^b	

- 337 attacks from 19 participants included in the safety analysis set (data cutoff: 10 June 2024).^c
 - 7 of 337 attacks were laryngeal.
- Baseline characteristics were similar to those of the RAPIDe-1 Phase 2 trial population.

	Deucrictibant IR capsule (combined dose group)
Number of attacks treated ^d	337
Number of participants ^d	19
Age in years, mean (SD)	42.7 (17.6)
Sex: Male/female, n (%)	7 (36.8) / 12 (63.2)
Race: White/other, n	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)



APAAACI 2024 CONGRESS Deucrictibant was well tolerated across all doses



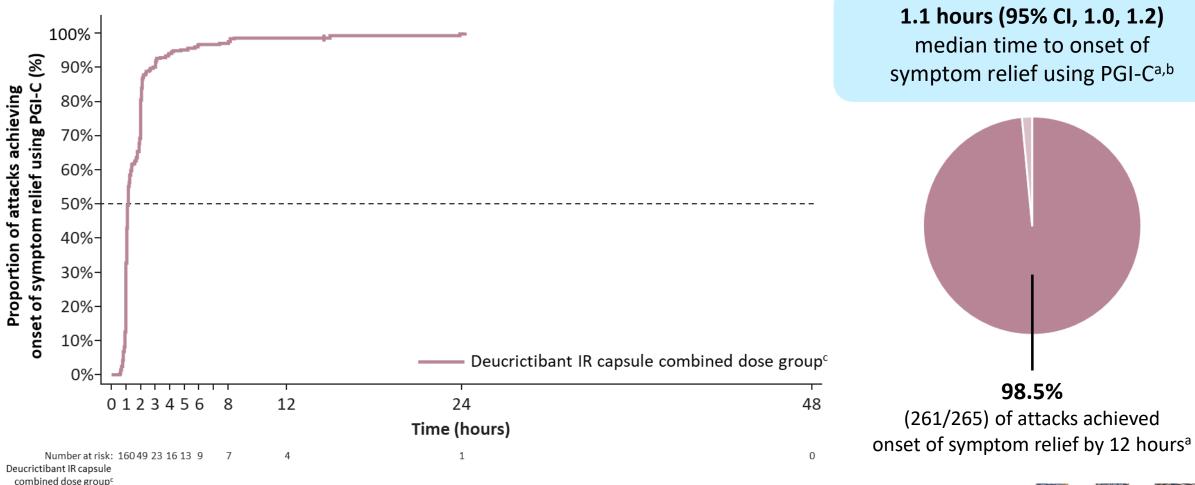
TEAEs within 5 days after administration of study drug

- No treatment-related TEAEs.
- No treatment-related serious or severe TEAEs, no treatment-related TEAEs in laboratory parameters, vital signs, or ECG findings.
- No TEAEs leading to treatment discontinuation, study withdrawal, or death.

Adverse events	Deucrictibant IR capsule (combined dose group)
Number of attacks treated ^a	337
Number of participants ^a	19
Attacks with any TEAE, n (%)	13 (3.9)
Treatment-related TEAEs, n	0
Serious TEAEs, n	1 ^b
Treatment-related serious TEAEs, n	0
TEAEs leading to study drug discontinuation, study withdrawal, or death, n	0
t occurring during time window from first study drug administration).	

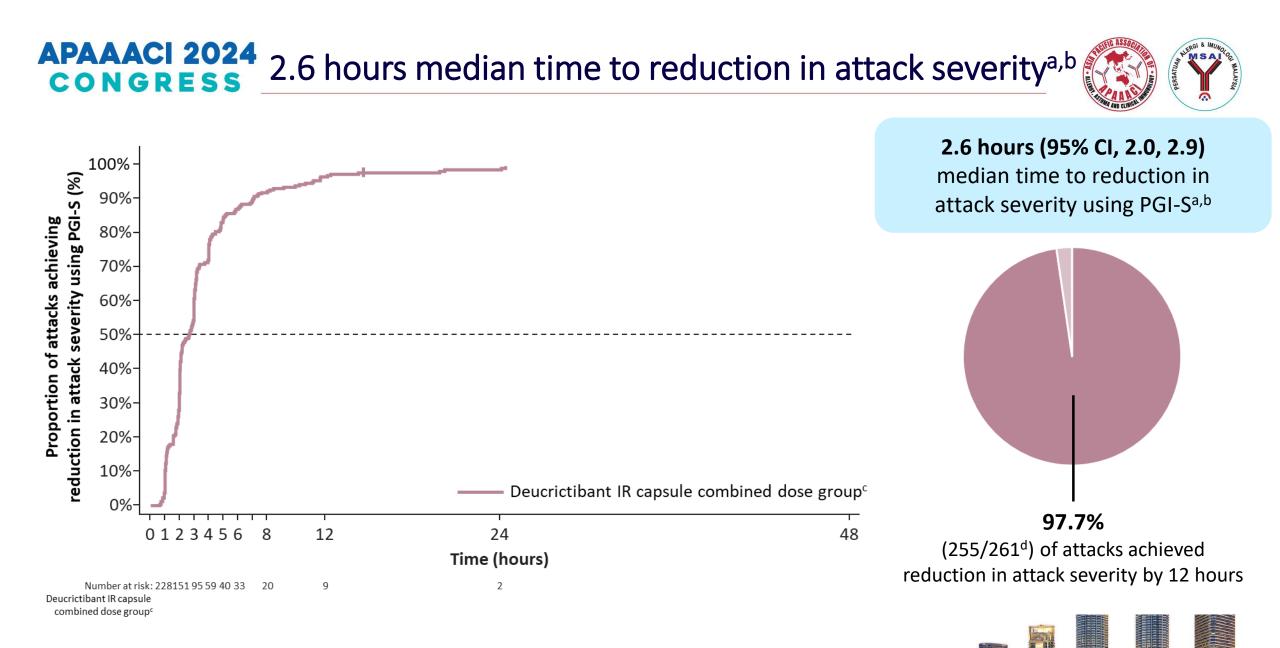
ECG, electrocardiogram; IR, immediate-release; TEAE, treatment-emergent adverse event (defined as adverse event occurring during time window from first study drug administration). ^aNumber in the safety analysis set (data cutoff: 10 June 2024). ^bTooth caries unrelated to treatment.

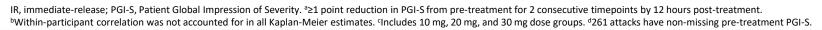
APAAACI 2024 CONGRESS 1.1 hours median time to onset of symptom relief^{a,b}



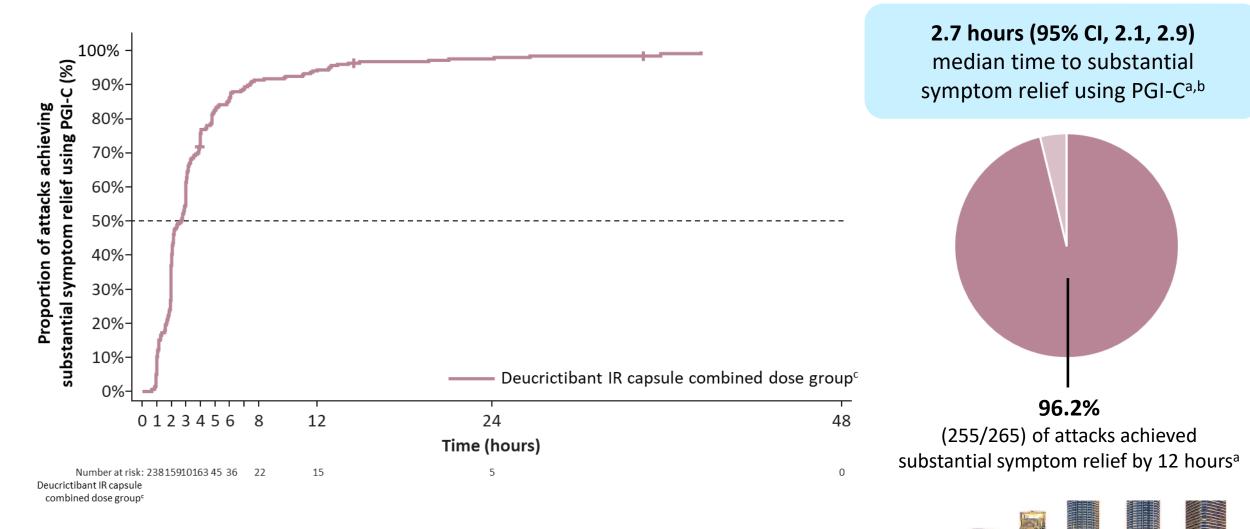


IR, immediate-release; PGI-C, Patient Global Impression of Change. ^aPGI-C rating of at least "a little better" for 2 consecutive timepoints by 12 hours post-treatment. ^bWithin-participant correlation was not accounted for in all Kaplan-Meier estimates. ^cIncludes 10 mg, 20 mg, and 30 mg dose groups.



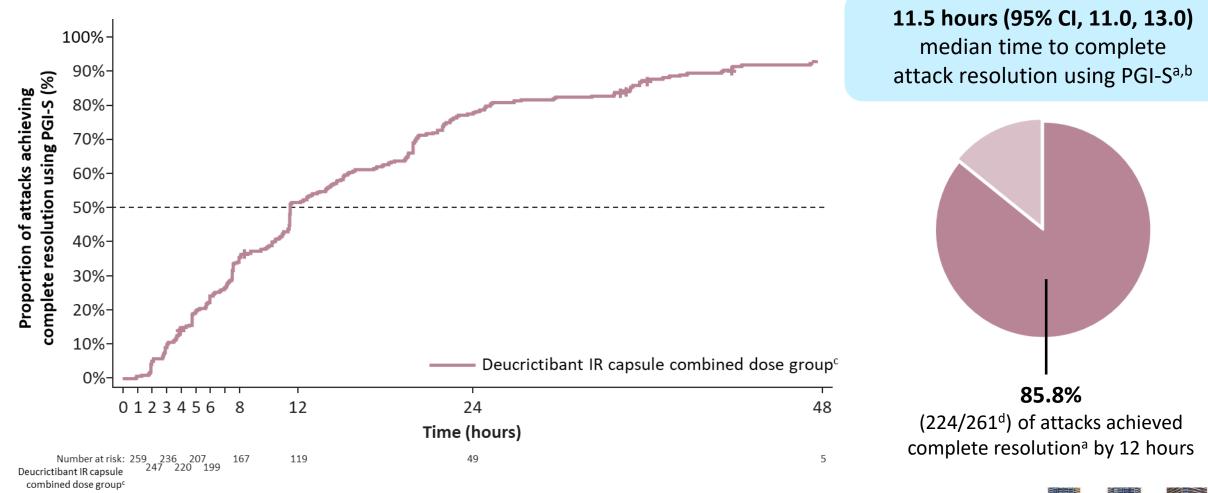


APAAACI 2024 CONGRESS 2.7 hours median time to substantial symptom relief^{a,b}



IR, immediate-release; PGI-C, Patient Global Impression of Change. ^aPGI-C rating of at least "better" for 2 consecutive timepoints by 12 hours post-treatment. ^bWithin-participant correlation was not accounted for in all Kaplan-Meier estimates. ^cIncludes 10 mg, 20 mg, and 30 mg dose groups.

APAAACI 2024 CONGRESS 11.5 hours median time to complete attack resolution^{a,b}





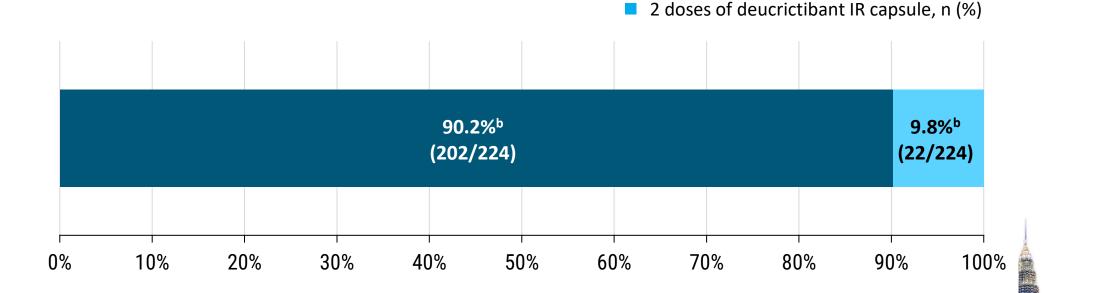
IR, immediate-release; PGI-S, Patient Global Impression of Severity. ^aPGI-S rating of "none" at 24 hours post-treatment. ^bWithin-participant correlation was not accounted for in all Kaplan-Meier estimates. ^cIncludes 10 mg, 20 mg, and 30 mg dose groups. ^d261 attacks have non-missing pre-treatment PGI-S.

APAAACI 2024 ONGRESS 90.2% of attacks achieved complete resolution^a by 24 hours with a single dose of deucrictibant



1 dose of deucrictibant IR capsule, n (%)

Attacks treated with 1 or 2 doses of deucrictibant IR capsule prior to achieving complete attack resolution^a

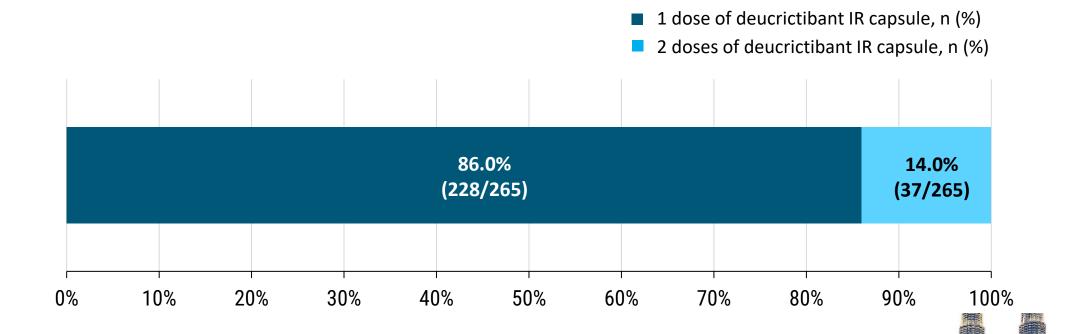


IR, immediate-release; PGI-S, Patient Global Impression of Severity. ^aPGI-S rating of "none" at 24 hours post-treatment. ^bProportion of 224 attacks achieving complete attack resolution using PGI-S by 24 hours.

APAAACI 2024 CONGRESS Overall, 86.0% of attacks were treated with a single dose of deucrictibant



Attacks treated with 1 or 2 doses of deucrictibant



APAAACI 2024 CONGRESS 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 safety signals observed.
- Efficacy analysis showed:
 - 1.1 hours median time to onset of symptom relief using PGI-C 98.5% of attacks by 12 hours.
 - 2.6 hours median time to reduction in attack severity using PGI-S 97.7% of attacks by 12 hours.
 - 2.7 hours median time to substantial symptom relief using PGI-C-96.2% of attacks by 12 hours.
 - 11.5 hours median time to complete attack resolution using PGI-S 85.8% of attacks by 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.

The Authors and the Sponsor would like to thank all the people with HAE as well as all study site staff who participated in the RAPIDe-2 trial.

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

HAE, hereditary angioedema; IR, immediate-release; PGI-C, Patient Global Impression of Change; PGI-S, Patient Global Impression of Severity.