Efficacy and safety of bradykinin B2 receptor antagonism with deucrictibant immediate-release capsule for treatment of hereditary angioedema attacks: results of RAPIDe-1 phase 2 trial

Joshua S. Jacobs¹, John Anderson², H. Henry Li³, Michael E. Manning⁴, Emel Aygören-Pürsün⁵, Maria Luisa Baeza⁶, Laurence Bouillet⁷, Hugo Chapdelaine⁸, Danny M. Cohn⁹, Aurélie Du-Thanh¹⁰, Olivier Fain¹¹, Henriette Farkas¹², Jens Greve¹³, Mar Guilarte¹⁴, David Hagin¹⁵, Roman Hakl¹⁶, Aharon Kessel¹⁷, Sorena Kiani-Alikhan¹⁸, Pavlina Králícková¹⁹, Ramon Lleonart²⁰, Markus Magerl²¹, Avner Reshef²², Bruce Ritchie²³, Giuseppe Spadaro²⁴, Maria Staevska²⁵, Petra Staubach²⁶, Marcin Stobiecki²⁷, Gordon L. Sussman²⁸, Michael D. Tarzi²⁹, Anna Valerieva²⁵, William H. Yang³⁰, Marie-Helene Jouvin³¹, Rafael Crabbé³², Simone van Leeuwen³³, Huaihou Chen³¹, Li Zhu³⁴, Jochen Knolle³⁵, Anne Lesage³⁶, Peng Lu³⁴, Marcus Maurer²², Marc A. Riedl³⁷

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 many HAE attacks being delayed or forgone.¹²⁻¹⁵
- An unmet need exists for on-demand oral therapies that are effective and well-tolerated and may reduce the treatment burden enabling prompt administration.

Methods

 RAPIDe-1* (NCT04618211)¹⁶ was a Phase 2, double-blind, placebo-controlled, randomized, crossover, doseranging trial of deucrictibant immediate-release (IR) capsule (PHVS416) for treatment of angioedema attacks in patients with HAE-1/2.

 Key inclusion criteria: diagnosis of HAE-1/2; ≥3 attacks in the last 4 months or ≥2 attacks in the last 2 months prior to screening; access to and experience with use of on-demand medications.

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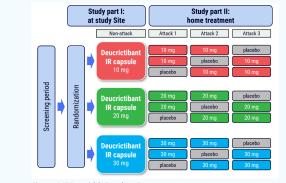


Figure 1. RAPIDe-1 trial design schematic.

Results

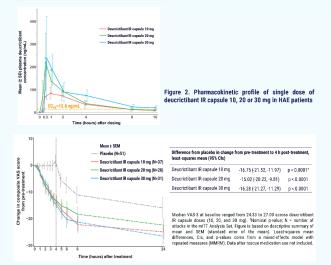


Figure 3 and Table 1. Results of primary endpoint: reduction of attack symptoms by VAS-3.

	Placebo N=51	Deucrictibant IR capsule 10 mg N=37	Deucrictibant IR capsule 20 mg N=28	Deucrictibant IF capsule 30 mg N=31
Time to onset of symptom relief by VAS-3 ≥30% reduction*				
Median time in hours (95% CI)	8.0 (7.6, 46.9)	2.1 (1.5, 2.9)	2.7 (1.9, 3.5)	2.5 (1.9, 3.8)
Hazard ratio		3.81	3.08	3.61
p-value		<0.0001	0.0021	<0.0001
Time to VAS-3 ≥50% reduction*				
Median time in hours (95% CI)	22.8 (20.0, 24.1)	3.3 (2.4, 3.9)	4.0 (2.9, 6.0)	4.0 (3.3, 5.8)
Hazard ratio		4.55	3.65	3.87
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Time to almost complete or complete symptom relief by VAS-3 ^a				
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TOS ^d at 4 hours ^c				
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Table 2. Results of key secondary efficacy endpoints.

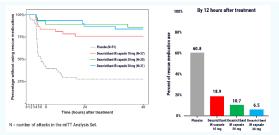


Figure 4. Additional secondary endpoint: use of rescue medication.

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Headache		1 (4.2%)					
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Vomiting			-				1 (2.8%)
Fatigue							1 (2.8%)
Blister				1 (1.9%)			

randomized participants who received ≥1 dose of study drug between Part I and Part II.

Table 3. Treatment-related adverse events within 48 hours after administration of study drug.

Conclusions

The Phase 2 RAPIDe-1 trial for treatment of attacks in patients with HAE-1/2 met primary and all key secondary endpoints, providing evidence on the efficacy and safety of deucrictibant IR capsule in treating HAE attacks and supporting its further development as a potential on-demand therapy for HAE.

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

Conflicts of interest disclosure

Consultancy fees, research grant support, speaker fees, and/or clinical trial fees

J.S.J.: BioCryst, CSL Behring, Cycle pharmaceuticals, Oasis pharmaceuticals, Pharming, Pharvaris, Takeda.

J.A.: BioCryst, BioMarin, CSL Behring, Cycle Pharmaceuticals, KalVista, Pharming, Pharvaris, Takeda. H.H.L.: BioCryst, BioMarin, CSL Behring, Intellia, KalVista, Pharming, Pharvaris, Takeda. M.E.M.: Allakos, Amgen, AstraZeneca, BioCryst, Blueprint, CSL Behring, Cycle, Genentech, GSK, KalVista, Merck, Novartis, Pharming, Pharvaris, Sanofi/Regeneron, Takeda. E.A.P.: BioCryst, Biomarin, Centogene, CSL Behring, KalVista; Pharming, Pharvaris, Shire/Takeda. M.L.B.: BioCryst, CSL Behring, Novartis, Shire/Takeda. H.C.: CSL Behring, Dyax, Green Cross, Merck, Novartis, Pharvaris, Sanofi, Sobi, Takeda. D.M.C.: BioCryst, CSL Behring, Pharming, Pharvaris, Shire/Takeda. A.D-T.: BioCryst, Takeda. O.F.: BioCryst, CSL Behring, Takeda. H.F.: BioCryst, CSL Behring, KalVista, ONO Pharmaceutical, Pharming, Pharvaris, Takeda. J.G.: CSL Behring, Shire/Takeda. M.G.: CSL Behring, Novartis, Takeda, Participated in advisory boards organized by BioCryst, CSL Behring, Novartis, Pharming, Pharvaris, Takeda. D.H.: none. R.H.: BioCryst, CSL Behring, Novartis, Takeda, X4 Pharmaceuticals. P.K.: none. R.L.: BioCryst, CSL Behring, Intellia, KalVista, Pharvaris, Shire/Takeda. M.G.: CSL Behring, Navartis, Takeda, A4 Pharmaceuticals. P.K.: none. R.L.: BioCryst, CSL Behring, Intellia, KalVista, Pharvaris, Shire/Takeda. A.S.: CSL Behring, Intellia, KalVista, Pharvaris, Shire/Takeda. A.S.: BioCryst, CSL Behring, Intellia, KalVista, Pharvaris, Shire/Takeda. M.G.: CSL Behring, Novartis, Takeda. A.K.: CSL Behring, KalVista, ONO Pharmaceutical, Pharvaris, Shire/Takeda. A.S.: CSL Behring, Intellia, KalVista, Pharvaris, Shire/Takeda. A.R.: BioCryst, CSL Behring, Pharvaris, Shire/Takeda. A.S.: CSL Behring, Novartis, Pharvaris, Shire/Takeda. A.S.: CSL Behring, Novartis, Pharvaris, Shire/Takeda. A.S.: CSL Behring, Nature, Shire/Takeda. A.R.: BioCryst, CSL Behring, Nature, Shire/Takeda. A.R.: BioCryst, CSL Behring, Nature, Shire/Takeda. A.S.: CSL Behring, Nature, Shire/Takeda. A.S.: CSL Behring, Nature, Takeda. G.S.: Pharvaris, Takeda. M.Sta.: Pharming, Pharvari

M.-H.J.: employee of Pharvaris at the time the analyses were conducted, holds stocks in Pharvaris. R.C.: employee of CG Consultancy and consultant to Pharvaris, holds stocks in Pharvaris. S.v.L.: employee of SLC Consultancy and consultant to Pharvaris, holds stocks in Pharvaris. H.C.: employee of Pharvaris at the time the analyses were conducted, holds stocks in Pharvaris. L.Z.: employee of Pharvaris, holds stocks in Pharvaris. J.K.: employee of JCK Consultant to Pharvaris, holds stocks/stock options in Pharvaris. A.L.: employee of GrayMattersConsulting and consultant to Pharvaris, holds stocks/stock options in Pharvaris. A.L.: employee of Pharvaris, holds stocks in Pharvaris, holds stocks/stock options in Pharvaris. A.L.: employee of GrayMattersConsulting and consultant to Pharvaris, holds stocks/stock options in Pharvaris. Advisor to KosaPharma, holds stocks in Pharvaris.

RAPIDe-1 was a Pharvaris-sponsored clinical trial. ClinicalTrials.gov Identifier: NCT04618211. EudraCT Number: 2020-003445-11.

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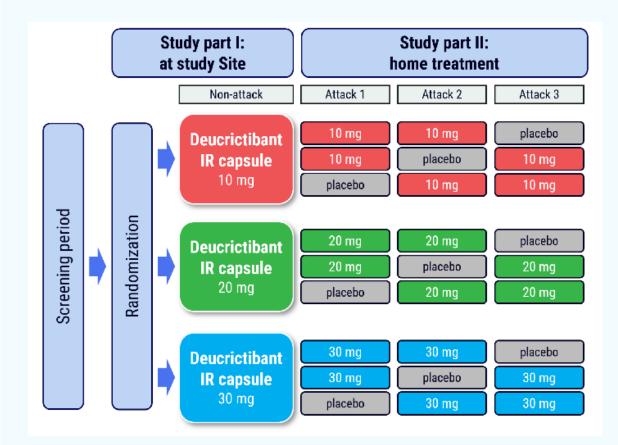
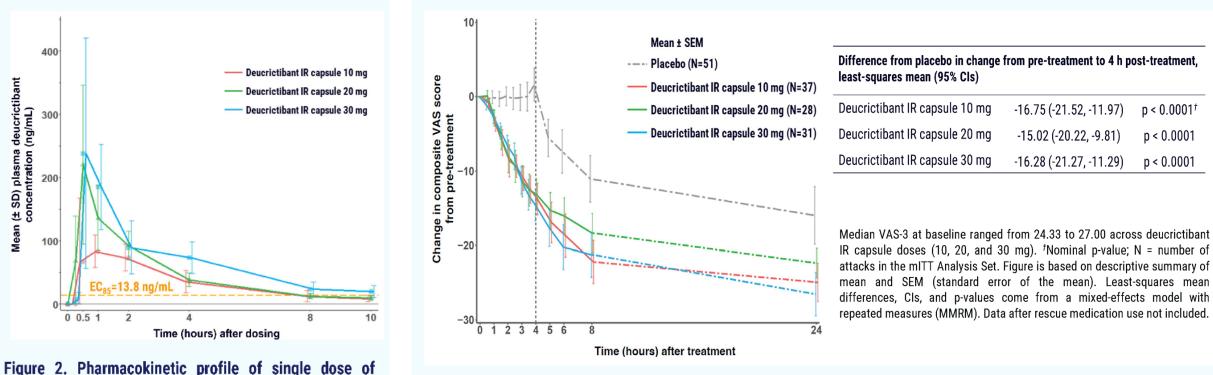


Figure 1. RAPIDe-1 trial design schematic.

¹⁶https://clinicaltrials.gov/ct2/show/NCT04618211 (accessed 15 August 2023).

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Results – Pharmacokinetic and reduction of attack symptoms by VAS-3



deucrictibant IR capsule 10, 20 or 30 mg in HAE patients

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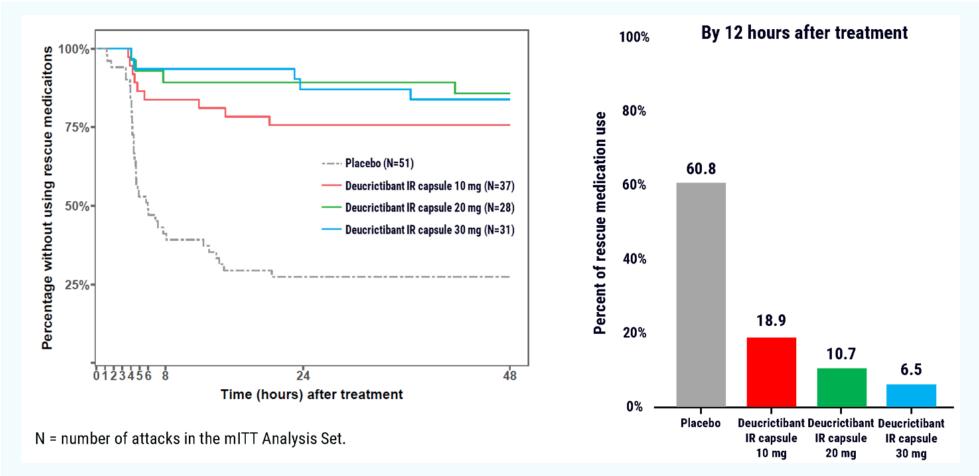
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Change in MSCS ^b score at 4 hours ^c Least-squares mean difference: Deucrictibant IR capsule – placebo p-value		-0.79 <0.0001	-0.61 0.0008	-0.39 0.0291
TOS ^d at 4 hours ^c Least-squares mean difference: Deucrictibant IR capsule – placebo p-value		64.13 <0.0001	62.69 <0.0001	71.06 <0.0001

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Table 2. Results of key secondary efficacy endpoints.

Results – Use of rescue medication



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Figure 4. Additional secondary endpoint: use of rescue medication.

Results – Safety

	Study part I (non-attack) Deucrictibant IR capsule			Study part II (attacks 1, 2, 3)			
					Deucrictibant IR capsule		
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Headache	-	1 (4.2%)	-	-	-	-	-
Nausea	1 (4.3%)	-	-	-	-	-	1 (2.8%)
Vomiting	-	-	-	-	-	-	1 (2.8%)
Fatigue	-	-	-	-	-	-	1 (2.8%)
Blister	-	-	-	1 (1.9%)	-	-	-

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Table 3. Treatment-related adverse events within 48 hours after administration of study drug.

8

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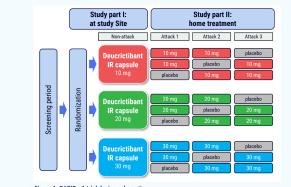
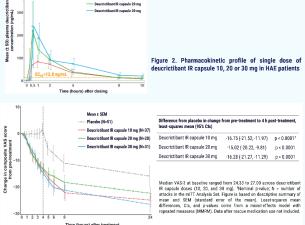


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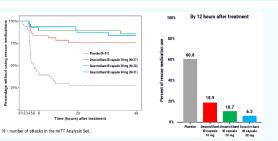


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The FDA has placed a hold on clinical trials of deucrictibant for long-term prophylaxis in the U.S. For the latest information and updates visit: https://ir.Pharvaris.com/.

References

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