# Early symptom relief following treatment with the oral bradykinin B2 receptor antagonist deucrictibant immediate-release capsule in patients with hereditary angioedema attacks

Michael E. Manning<sup>1</sup>, John Anderson<sup>2</sup>, Joshua S. Jacobs<sup>3</sup>, H. Henry Li<sup>4</sup>, Emel Aygören-Pürsün<sup>5</sup>, Maria Luisa Baeza<sup>6</sup>, Laurence Bouillet<sup>7</sup>, Hugo Chapdelaine<sup>8</sup>, Danny M. Cohn<sup>9</sup>, Aurélie Du-Thanh<sup>10</sup>, Olivier Fain<sup>11</sup>, Henriette Farkas<sup>12</sup>, Jens Greve<sup>13</sup>, Mar Guilarte<sup>14</sup>, David Hagin<sup>15</sup>, Roman Hakl<sup>16</sup>, Aharon Kessel<sup>17</sup>, Sorena Kiani-Alikhan<sup>18</sup>, Pavlina Králícková<sup>19</sup>, Ramon Lleonart<sup>20</sup>, Markus Magerl<sup>21</sup>, Avner Reshef<sup>22</sup>, Bruce Ritchie<sup>23</sup>, Giuseppe Spadaro<sup>24</sup>, Maria Staevska<sup>25</sup>, Petra Staubach<sup>26</sup>, Marcin Stobiecki<sup>27</sup>, Gordon L. Sussman<sup>28</sup>, Michael D. Tarzi<sup>29</sup>, Anna Valerieva<sup>25</sup>, William H. Yang<sup>30</sup>, Marie-Helene Jouvin<sup>31</sup>, Rafael Crabbé<sup>32</sup>, Simone van Leeuwen<sup>33</sup>, Huaihou Chen<sup>31</sup>, Li Zhu<sup>34</sup>, Jochen Knolle<sup>35</sup>, Anne Lesage<sup>36</sup>, Peng Lu<sup>34</sup>, Marcus Maurer<sup>21</sup>, Marc A. Riedl<sup>37</sup>

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### Introduction

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- An unmet need exists for on-demand oral therapies that are effective and well-tolerated and may reduce the treatment burden enabling prompt administration as recommended by international clinical guidelines.<sup>7-9</sup>
- Deucrictibant immediate-release (IR) capsule (PHVS416) is an investigational formulation containing deucrictibant (PHA121), a highly potent, specific, and orally bioavailable competitive antagonist of the bradykinin B2 receptor. <sup>10+1</sup>
- In the Phase 2 RAPIDe-1 trial\* (NCT04618211)<sup>12</sup> deucricitibant IR capsule reduced time to onset of symptom relief and to attack resolution measured through the visual analogue scale-3 (VAS-3) and substantially reduced use of rescue medication.<sup>13-14</sup>

# | Study part II: | hone treatment | hone

Figure 1. RAPIDe-1 trial design schematic

### Methods

- RAPIDe-1 was a Phase 2, double-blind, placebo-controlled, randomized, crossover, dose-ranging trial of deucrictibant IR capsule for the acute treatment of angioedema attacks in patients with HAE-1/2.
- A primary analysis was performed including 147 qualifying HAE attacks treated by 62 participants with double-blinded placebo or deucrictibant IR capsule 10, 20, or 30 mg (modified intent-to-treat analysis, mITT = all randomized participants with ≥1 treated HAE attack and VAS results at both pre-treatment and ≥1 post-treatment time point).
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  scores based on patient-reported symptoms of attacks at the affected body sites, included in ecallantide clinical
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- . MSCS is a point-in-time measure of symptom severity:
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- · Increase in score reflects improvement in symptom from pre-treatment
- Complex Assessment questions (TOS PRO) evaluate patient-reported changes in attack symptoms from pre-treatment (a lot better or resolved – a little better – same – a little worse – a lot worse)

## Results

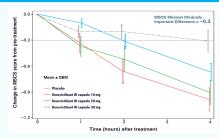


Figure 2. MSCS score measured up to 4 h post-treatment.

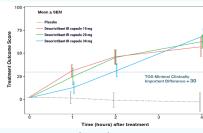


Figure 3. TOS measured up to 4 h post-treatment.

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Onset of symptom relief = the time point when TOS PRO first reaches at least "A little better" for all symptom complexes affected at baseline, and no new symptom in any other symptom complex is reported. Belief is confirmed if the improvement is sustained at 2 consecutive time points.

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Almost complete or complete symptom relief = the time point when TOS PRO first reaches "A lot better or resolved" for all symptom complexes affected at baseline, and no new symptom in any other symptom complex is reported.

Table 2. Time to almost complete or complete symptom relief measured through TOS PRO.

### **Conclusions**

- In the Phase 2 RAPIDe-1 trial deucrictibant IR capsule improved symptoms and reduced time to symptom relief and to resolution of HAE attacks
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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

M.E.M.: Allakos, Amgen, AstraZeneca, BioCryst, Blueprint, CSL Behring, Cycle, Genentech, GSK, KalVista, Merck, Novartis, Pharming, Pharvaris, Sanofi/Regeneron, Takeda.

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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 Consult and consultant to 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 KosaPharma. P.L.: employee of Pharvaris, holds stocks/stock options in Pharvaris.

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

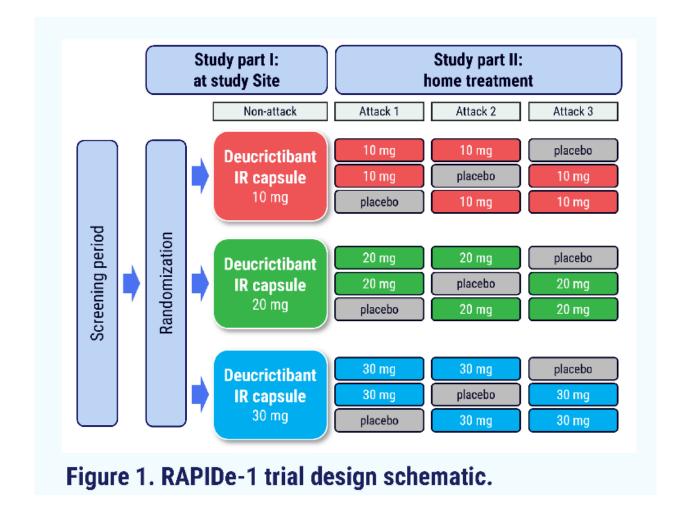
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<sup>&</sup>lt;sup>12</sup>https://clinicaltrials.gov/ct2/show/NCT04618211 (accessed 15 August 2023)

# **Results - MSCS**

- MSCS is a point-in-time measure of symptom severity:
  - Patient-rated severity of each affected symptom on a categorical scale (0 = normal, 1 = mild, 2 = moderate, 3 = severe)
  - Calculated as average score from all affected body sites (symptom complexes)
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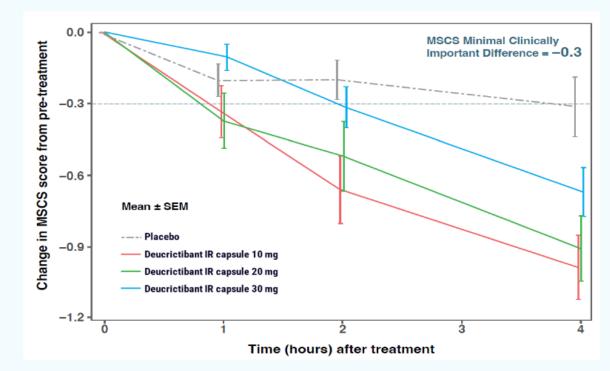


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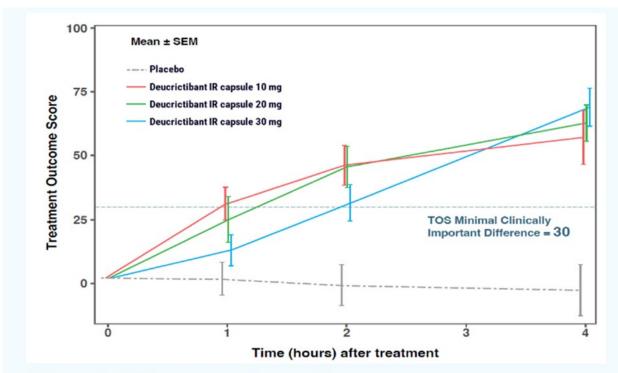


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# **Results - TOS PRO**

- Complex Assessment questions (TOS PRO)
   evaluate patient-reported changes in attack
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  - a lot better or resolved
  - a little better
  - same
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  - a lot worse

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# Study part II: at study SIE Neonattack Neonattack Neonattack Attack 2 Attack 3 Attack 2 A

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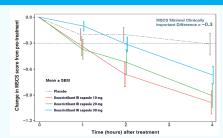


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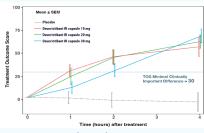


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