

On-demand Oral Sebetralstat for Hereditary Angioedema Attacks in Children Aged 2-11: Interim Analysis of KONFIDENT-KID

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Background

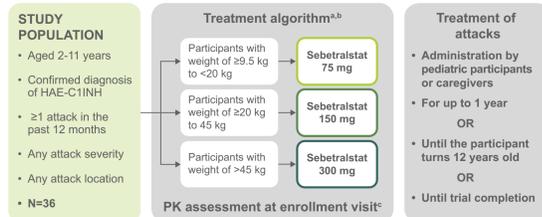
- Approximately 50%-75% of patients with hereditary angioedema (HAE) experience their first attack by the age of 12^{1,2}
- Children with HAE attacks experience significant anxiety, social isolation, and academic disruption.^{1,3} Their caregivers also experience a multifaceted psychosocial impact³⁻⁵
- On-demand HAE treatment options for children require injection and are associated with substantial burden, including anxiety and pain, leading to treatment avoidance, denial, or delays⁵⁻¹⁰
- Sebetralstat, an oral plasma kallikrein inhibitor, is currently only approved for on-demand treatment of HAE attacks in patients ≥12 years old in the EU, US, and other countries¹¹⁻¹³

Objective

- This ongoing open-label, international, multicenter phase 3 KONFIDENT-KID trial was designed to evaluate the safety, pharmacokinetics (PK), and effectiveness of sebetralstat orally disintegrating tablets (ODTs) in children (2-11 years) with hereditary angioedema with C1INH deficiency (HAE-C1INH)

Methods

Figure 1. KONFIDENT-KID Trial Design



^aAll doses provide equivalent exposure as the 300-mg FCT dose in adults, provided as ODT.
^bTrial was amended in the US to treat with the equivalent of sebetralstat 600 mg.
^cPK samples were collected at 0.5, 2, and 4 hours after a single administration of sebetralstat.
 FCT, film-coated tablet; HAE-C1INH, hereditary angioedema with C1INH deficiency; ODT, orally disintegrating tablet; PK, pharmacokinetics.

Trial Design

- The trial design of the phase 3 KONFIDENT-KID trial (NCT06467084) is shown in **Figure 1**

Objectives

- The primary objective was to evaluate the safety of sebetralstat in this patient population
- Secondary objectives were to assess PK and effectiveness
- Effectiveness endpoints were assessed using Caregiver Global Impression of Change (CaGI-C) and Severity (CaGI-S)
 - Time to beginning of symptom relief was defined as CaGI-C ratings of at least 'A Little Better' for ≥2 time points in a row within 12 hours
 - Time to reduction in attack severity was defined as a decrease in CaGI-S rating from baseline for ≥2 time points in a row within 12 hours
 - Time to complete attack resolution was defined as a CaGI-S rating of 'None' within 24 hours

Results

Participant Demographics

- As of December 15, 2025, 36 pediatric participants were enrolled in KONFIDENT-KID (**Table 1**)

Table 1. Participant Demographics

	Participants in sebetralstat ODT dosing group ^a			All participants N=36
	75 mg n=3	150 mg n=27	300 mg n=6	
Age, mean (range), years	4.7 (4-5)	7.9 (6-11)	9.2 (8-10)	7.8 (4-11)
Sex, male, n (%)	1 (33.3)	14 (51.9)	3 (50.0)	18 (50.0)
Race, n (%)				
White	3 (100)	20 (74.1)	3 (50.0)	26 (72.2)
Other ^b	0	3 (11.1)	2 (33.3)	5 (13.9)
Not reported	0	4 (14.8)	1 (16.7)	5 (13.9)
Weight, mean (range), kg	19.1 (18.8-19.5)	29.8 (21.0-44.4)	55.1 (48.5-72.3)	33.1 (18.8-72.3)
HAE-C1INH-Type 1, n (%)	3 (100)	24 (88.9)	6 (100)	33 (91.7)

^aNo participants received 600 mg sebetralstat.

^bIncludes Asian (n=2, 5.6%), Black or African American (n=1, 2.8%), American Indian/Native Alaskan (n=1, 2.8%), Other (n=1, 2.8%).

Data cutoff date: December 15, 2025.

HAE-C1INH, hereditary angioedema with C1INH deficiency; ODT, orally disintegrating tablet.

Pharmacokinetics

- Sebetralstat concentrations in all pediatric participants 30 minutes post-dose were comparable to plasma concentrations in adults following a 300-mg FCT dose, with a C₉₀ (geomean) of 1364 ng/mL in pediatric participants and 1810 ng/mL in adults¹⁴

Attack Characteristics

- Sebetralstat was administered as treatment for 172 attacks in 33 participants (**Table 2**)
 - Participants had a median of 4 total attacks; mean of 0.70 (SD, 0.45) attacks per month
- At the time of treatment, most attacks (88.9%) were still mild or moderate in severity

Table 2. Baseline Attack Characteristics

	Attacks in sebetralstat ODT dosing group			All attacks N=172
	75 mg n=14	150 mg n=140	300 mg n=18	
Severity, n (%) ^{a,b}				
Mild ^c	5 (35.7)	46 (32.9)	11 (61.1)	62 (36.0)
Moderate	9 (64.3)	78 (55.7)	4 (22.2)	91 (52.9)
Severe	0	9 (6.4)	0	9 (5.2)
Very Severe	0	1 (0.7)	0	1 (0.6)
Pooled primary attack location, n (%) ^b				
Laryngeal	0	3 (2.1)	1 (5.6)	4 (2.3)
Abdominal only	7 (50.0)	50 (35.7)	2 (11.1)	59 (34.3)
Subcutaneous only	7 (50.0)	77 (55.0)	10 (55.6)	94 (54.7)
Abdominal and subcutaneous	0	4 (2.9)	2 (11.1)	6 (3.5)

^aAssessed by CaGI-S.

^bMissing for 9 (5.2%) attacks as of this interim data cutoff.

^cIncludes attacks with baseline CaGI-S rating of 'None': 2 (1.4%) attacks in 150-mg group and 5 (27.8%) attacks in 300-mg group.

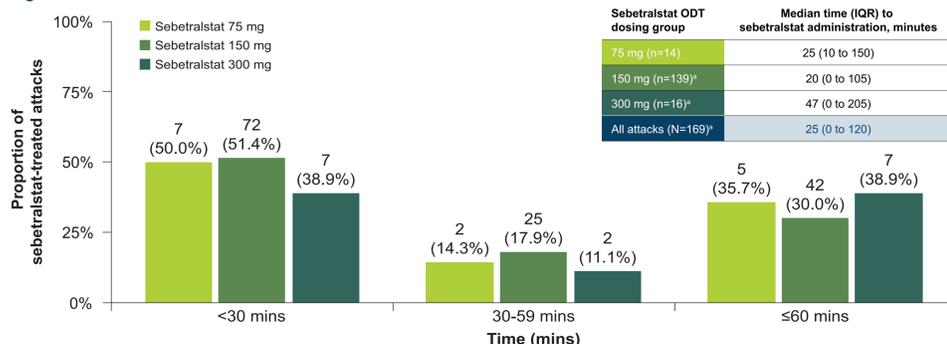
Data cutoff date: December 15, 2025.

ODT, orally disintegrating tablet.

Time to Treatment

- Across all attacks, the median (IQR) time to treatment was 25 minutes (0-120) (**Figure 2**)
 - 67% of attacks were treated in <1 hour after onset

Figure 2. Time from Attack Onset to Sebetralstat ODT Administration^{a,b}



^aData missing for 1 (0.7%) attack in the 150-mg group and 2 (11.1%) attacks in the 300-mg group.

^bCaregiver or child could administer treatment.

Data cutoff date: December 15, 2025.

IQR, interquartile range; ODT, orally disintegrating tablet.

Interim Effectiveness

- Effectiveness was assessed for the largest treatment group (81% of attacks), 150 mg (**Table 3**)
- Conventional medication was utilized within 12 hours for 0.7% of attacks (1/140)

Table 3. Interim Effectiveness with Sebetralstat 150 mg

Endpoint	Sebetralstat ODT 150 mg n=140 attacks
Time to beginning of symptom relief within 12 hours, median (IQR), hours	1.5 (1.0 to 4.0)
Time to reduction in attack severity within 12 hours, median (IQR), hours	4.0 (1.7 to 10.6)
Time to complete attack resolution within 24 hours, median (IQR), hours	12.0 (6.0 to 24.0)

Data cutoff date: December 15, 2025.

IQR, interquartile range; ODT, orally disintegrating tablet.

Safety and Tolerability

- There were no serious or treatment-related adverse events (**Table 4**)
- The safety profile was consistent across sebetralstat ODT dosing groups (ie, no dose level-dependent effect)
- There were no reports of difficulty swallowing sebetralstat ODT

Table 4. Safety and Tolerability

Event	All participants ^a N=36
Any TEAE, n (%)	16 (44.4) ^b
Treatment-related	0
Serious TEAE, n (%)	0
Severe TEAE, n (%)	0
Any TEAE leading to discontinuation, n (%)	0
Any TEAE leading to death, n (%)	0

^aParticipants who received at least 1 dose of sebetralstat.

^bThirty-one events in 16 participants. TEAEs by system organ class: infections and infestations (11 [30.6%]; 15 events); gastrointestinal disorders (5 [13.9%]; 5 events); nervous system disorders (4 [11.1%]; 7 events); eye disorders, injury, poisoning, and procedural complications, skin and subcutaneous tissue disorders, and vascular disorders (all 1 [2.8%]; 1 event each).

Data cutoff date: December 15, 2025.

HAE, hereditary angioedema; ODT, orally disintegrating tablet; TEAE, treatment-emergent adverse event.

Conclusions

- Children with HAE and their caregivers experience significant burden from HAE attacks and currently available injectable on-demand treatment options^{1,6}
- KONFIDENT-KID is the largest pediatric trial conducted in HAE to date^{10,15-18} and is aligned with treatment guidelines¹⁹
- Attacks occurred in all locations, including the larynx
 - Participants had a mean of 0.7 attacks per month
 - The median time to treatment was 25 minutes by children or their caregivers
 - 88.9% of attacks were still mild or moderate at time of treatment
- Sebetralstat was generally safe, well tolerated, and demonstrated rapid symptom relief, reduction in severity, and complete attack resolution
- Sebetralstat ODT has the potential to address high unmet need for children (aged 2-11 years) with HAE and their caregivers

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