

Treatment Impact of Efgartigimod PH20 SC on I-RODS Daily Activity Assessment in Patients With Chronic Inflammatory Demyelinating Polyneuropathy: Post Hoc Analysis of the Registrational ADHERE Study

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BACKGROUND

- CIDP is a rare, severe, progressive immune-mediated disease leading to disability due to proximal/distal weakness and sensory disturbance^{1,2}
- Efgartigimod is a human IgG1 antibody Fc fragment that blocks the neonatal Fc receptor³
- Efgartigimod outcompetes endogenous IgG, decreases IgG recycling, promotes lysosomal degradation of IgG, and reduces IgG levels without impacting IgG production^{3–6} (**Figure 1**)
- Efgartigimod PH20 SC is a coformulation of efgartigimod and PH20 that allows for rapid (30–90s single injection) SC administration of larger

FIGURE 1 Efgartigimod Mechanism of Action



- In the randomized, double-blinded, placebo-controlled ADHERE trial (NCT04281472), efgartigimod PH20 SC demonstrated a significant, clinically meaningful benefit in participants with CIDP, regardless of prior CIDP
- I-RODS is a 24-item participant-reported scale with each item representing a common daily activity or social participation that ranges from very easy to very difficult, with higher scores indicating less disability⁹
- In this post hoc analysis of ADHERE, we report changes in total and individual items of I-RODS

METHODS

- The study design of the ADHERE trial has been reported previously⁶
- The run-in baseline period for ADHERE involved withdrawal of standard treatments for CIDP (ie, off treatment) for ≤12-weeks to identify which participants had active disease
- Participants with active disease received open-label, weekly efgartigimod PH20 SC
- Participants who entered Stage B were randomized (1:1) to weekly efgartigimod PH20 SC 1000 mg or placebo for ≤48 weeks
- Participants completed the I-RODS weekly in stage A and every 4 weeks in stage B

Participants

- 322 participants entered stage A (open-label, weekly efgartigimod PH20 SC 1000 mg)
- 221 participants (111 efgartigimod PH20 SC, 110 placebo) were randomized and treated for ≤48 weeks in stage B
- Mean I-RODS score was 40.1 at stage A baseline and 53.6 (efgartigimod PH20 SC) and 51.2 (placebo) at stage B baseline (**Table 1**)
- 191/221 (86.4%) participants had assessments at run-in, stage A, and stage B baselines

TABLE 1 ADHERE Baseline Characteristics

	Open-Label Stage A	Double-Blinded Stage B	
	Efgartigimod PH20 SC (N=322)	Efgartigimod PH20 SC (N=111)	Placebo SC (N=110)
Age, y, mean (SD)	54.0 (13.9)	54.5 (13.2)	51.3 (14.5)
Sex, male, n (%)	208 (64.6)	73 (65.8)	69 (62.7)
Time since diagnosis, y, mean (SD)	4.9 (6.1)	3.7 (4.4)	3.8 (4.7)
Typical CIDP diagnosis, n (%)	268 (83.2)	97 (87.4)	95 (86.4)
Unstable active disease (CDAS: 5), n (%)	197 (61.2)	74 (66.6)	76 (69.1)
Prior treatment (within the past 6 months), n (%) Corticosteroids Immunoglobulins (IVIg, SCIg) Off treatment ^a	63 (19.6) 165 (51.2) 94 (29.2)	24 (21.6) 48 (43.2) 39 (35.1)	23 (20.9) 48 (43.6) 39 (35.5)
aINCAT score, mean (SD) ^{b,c}	4.6 (1.7)	3.1 (1.5)	3.3 (1.6)
I-RODS score, mean (SD) ^{b,c}	40.1 (14.7)	53.6 (17.9)	51.2 (15.4)
Grip strength (dominant hand), kPa, mean (SD) ^{b,d}	38.5 (24.2)	54.9 (23.6)	58.0 (25.1)

previous treatment. bClinical assessments were performed at the beginning of each stage. Lower scores r improvement on aINCAT, while higher scores represent improvement for I-RODS, dGrip strength scores in nondominant

Change in I-RODS Centile Metric Score

- At stage B baseline, the mean (SE) change in I-RODS centile metric score compared with run-in baseline was 3.5 (0.98). At Stage B last assessment, these scores were 5.7 (1.88) and -4.9 (1.82) for participants who received efgartigimod and placebo, respectively
- At stage B baseline, 36/97 (37.1%) and 34/92 (37.0%) participants randomized to efgartigimod or placebo, respectively, had ≥4-point improvement in I-RODS centile metric score compared with run-in. At stage B last assessment, a similar number of participants in the efgartigimod group (37/97; 38.1%) had this improvement, while it was lower in the placebo group (24/92; 26.1%)

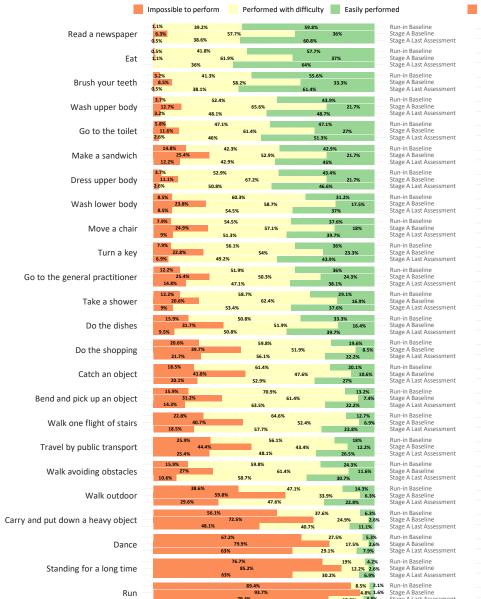
Change in individual I-RODS items

- The tasks become more difficult to perform between run-in baseline and stage A baseline, and improvements were observed across all 24 items from run-in and stage A baselines to stage A last assessment (Figure 2A)
- Separation of efgartigimod PH20 SC from placebo was noted for all 24 individual I-RODS items at stage B last assessment (Figure 2B)
- Maintenance or further improvement in efficacy was observed for participants randomized to efgartigimod PH20 SC on all 24 I-RODS items (Figure 2B); a loss of efficacy was observed in patients randomized to placebo on all 24 items
- In addition to improvements with efgartigimod PH20 SC in the easy-to-perform tasks, improvements were also seen in the more difficult tasks (Figures 2A and 2B)
- The tasks increase in difficulty from top to bottom across the graphs

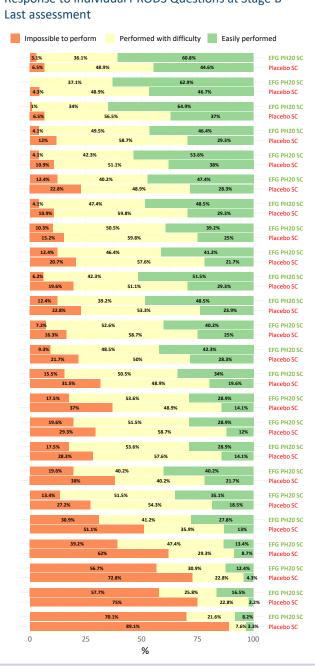
RESULTS

FIGURE 2





B Response to Individual I-RODS Questions at Stage B



KEY TAKEAWAYS



Efgartigimod PH20 SC resulted in clinically meaningful improvements in functional ability compared with placebo as evidenced by change from baseline in the I-RODS centile metric score



A higher proportion of participants receiving efgartigimod PH20 SC (38.1%) vs placebo (26.1%) experienced ≥4-point improvement in I-RODS centile metric score at stage B last assessment



Improvements with efgartigimod PH20 SC vs placebo were also seen across individual **I-RODS** items



Improvements in **I-RODS items** following treatment with efgartigimod PH20 SC may potentially reflect enhanced quality of life in patients with CIDP, which could be evaluated in future studies

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atory Neuropathy Cause and Treatment; CDAS; CIDP diseas amcAr. adjusted imminimatory neuropatry dause ain urfeatherin, parasas larvi visualismos (IDP: chronic inflammatory demyelinating polyneuropathy; EFG: efgartigimod; IgG: immunoglobulin G; I-RODS: Inflammatory Rasch-built Overall Disability icale: IVIg: intravenous immunoglobulin: kPa; kilopascal: PH20; recombinant huma dase PH20: PRO: natient-reported outc

Novo Nordisk, Pfizer, Sanofi, UCB, Takeda Pharmaceuticals, Zai Lab; TS: Alexion, Alnylam Pharmaceuticals, areenx, Baver Vital, Biogen, Bristol Myers Squibb, Celgene, CSL Behring, Euroimmun, Grifols, Hexal AG, Horizon, Janssen-Gilag, Merck, Serono, Novartis, Pfizer, Roche, Sanofi, Siemens, Swedish Orohan Biovitrum, Teva, Viatris; SR: Annexon, argenx, the Beijing Association of Holistic and Integrated Medicine, British Medician Association, Oct. Paneau Franciscus, Academ, Anniham Educatas, and Earth, Saper (11), Academ, Anniham Educatas, and Earth, Saper (11), Academ, Anniham Educatas, and Earth, Saper (12), Academ, Anniham Educatas, and Earth, Saper (13), Academ, Ann ponsored by argenx. Medical writing support was provided by Envision Pharma Group and funded by argenx. The authors gratefully acknowledge the trial participants and investigators involved.

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