

Observed Efficacy of Efgartigimod in Generalized Myasthenia Gravis Across Patient Subgroups in the ADAPT-SC+ Study

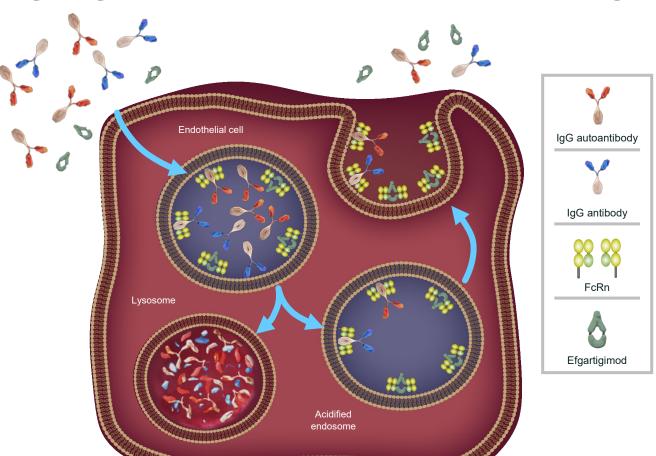


Srikanth Muppidi,¹ Tuan Vu,² Ratna Bhavaraju-Sanka,³ Edward Brauer,⁴ René Kerstens,⁴ Kimiaki Utsugisawa,⁵ Andreas Meisel,⁶ and the ADAPT-SC+ Study Group

¹Stanford Healthcare, Palo Alto, California, USA; ²Department of Neurology, University of South Florida, USA; ³Department of Neurology, University of Texas Health Science Center, San Antonio, Texas, USA; ⁴argenx, Ghent, Belgium; ⁵Department of Neurology, Hanamaki, Japan; ⁶Department of Neurology and Neuroscience Clinical Research Center, Charité – Universitätsmedizin Berlin, Germany

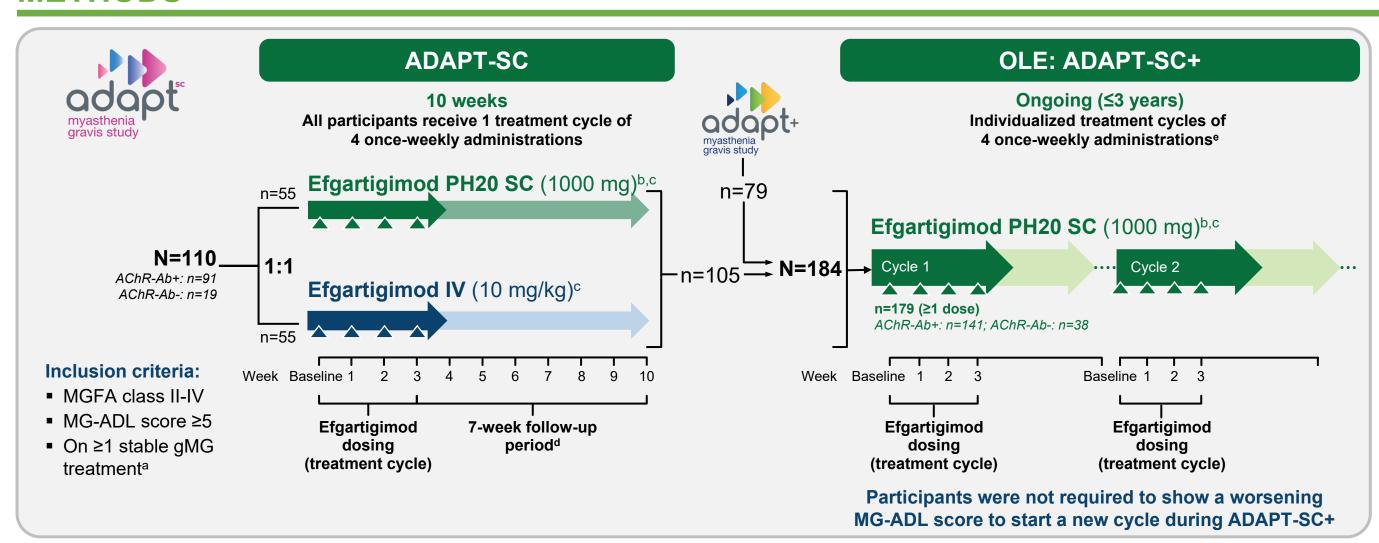
INTRODUCTION

Efgartigimod Mechanism of Action: Blocking FcRn



- FcRn recycles IgG antibodies and albumin. This recycling and salvage from lysosomal degradation results in IgG antibodies having the longest half-life and being the most abundant of all immunoglobulins¹⁻³
- Efgartigimod is an IgG1 antibody Fc fragment that has been engineered for increased affinity to FcRn, and is uniquely composed of the only part of the IgG antibody that normally binds FcRn¹
- Efgartigimod selectively reduces IgG by blocking FcRn-mediated IgG recycling without impacting antibody production, albumin levels, or other parts of the immune system^{1,4,5}
- Efgartigimod PH20 SC is a coformulation of efgartigimod and recombinant human hyaluronidase PH20 (rHuPH20), which allows for rapid SC administration of larger volumes^{6,7}
- PK/PD modeling and phase 3 data (ADAPT-SC) have demonstrated 4 once-weekly administrations of 1000 mg efgartigimod PH20 SC and 10 mg/kg efgartigimod IV result in comparable decreases in IgG levels^{6,8}

METHODS



^aAChEIs, steroids, and/or NSISTs. ^bCoformulated with 2000 U/mL rHuPH20. ^cArrows indicate efgartigimod administration. ^dParticipants could not receive treatment in the 7-week follow-up period. ^eParticipants who are not in need of retreatment at study entry will instead start with an intertreatment period.

SUMMARY



Efgartigimod PH20 SC resulted in consistent improvements in AChR-Ab+ participants across subgroups, including those only receiving AChEIs



Clinical improvements across subgroups were similar to those seen in participants in the ADAPT trial,³ reinforcing efgartigimod's efficacy across a broad gMG population



Results in participants with short disease duration and limited/no exposure to prior treatments suggest efgartigimod may be an effective option early in their disease course



The majority of TEAEs were mild or moderate with no new safety findings



Figure 3. Week 4^a MG-ADL Score Change from Baseline

by Concomitant Therapy

The ADAPT-SC+ study is currently ongoing

RESULTS

Table 1. Participant Demographics and Baseline Characteristics Overall and AChR-Ab+ Population

	Efgartigimod PH20 SC Overall (n=179)	Efgartigimod PH20 SC AChR-Ab+ (n=141)	
Age, years, mean (SD)	50.7 (15.5)	51.0 (15.9)	
Sex, female, n (%)	119 (66.5)	90 (63.8)	
Weight, kg, median (Q1-Q3)	76.9 (64.0-89.8)	77.0 (63.0-92.0)	
AChR-Ab+, n (%)	141 (78.8)	141 (100)	
Total MG-ADL score, mean (SD)	7.9 (3.4)	7.6 (3.4)	
Total MG-QoL15r score, mean (SD)	13.6 (6.9)	13.1 (6.8)	
MG therapy during the first year, n (%)			
Any steroid	128 (71.5)	103 (73.0)	
Any NSIST	89 (49.7)	67 (47.5)	
Any AChEI	150 (83.8)	122 (86.5)	
Steroid + NSIST	69 (38.5)	53 (37.6)	
AChEl only	29 (16.2)	23 (16.3)	

- 184 participants rolled over from ADAPT-SC (n=105) and ADAPT+ (n=79)
- 179 participants (141 AChR-Ab+ and 38 AChR-Ab-) received ≥1 dose of efgartigimod PH20 SC in ADAPT-SC+ through December 2022, with a mean (SD), median, and maximum study duration for all participants of 412.9 (104.52), 451, and 585 days, respectively

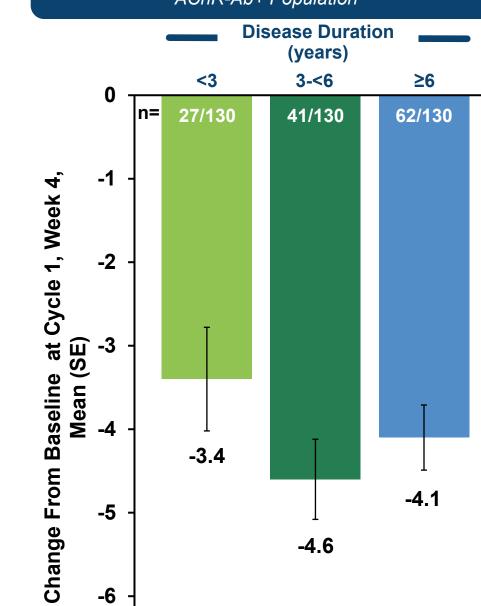
Table 2. Summary of TEAEs Overall Population

	Efgartigimod PH20 SC (n=179; PYFU=193.4)	
	ERa	n (%)
Any TEAE	9.0	152 (84.9)
Any TEAE grade ≥3	0.4	36 (20.1)
Any serious TEAE	0.3	33 (18.4)
Any injection site reaction	3.2	82 (45.8)
Fatal event ^b	<0.1	4 (2.2)
Discontinued study treatment owing to TEAEs ^c	<0.1	4 (2.2)
Most commonly observed TEAEsd		
Injection site erythema	1.7	52 (29.1)
COVID-19	0.2	40 (22.3)
Headache	0.6	36 (20.1)
Nasopharyngitis	0.2	28 (15.6)
Diarrhea	0.2	24 (13.4)
Injection site pain	0.2	21 (11.7)
Injection site pruritus	0.2	19 (10.6)
Injection site bruising	0.2	18 (10.1)

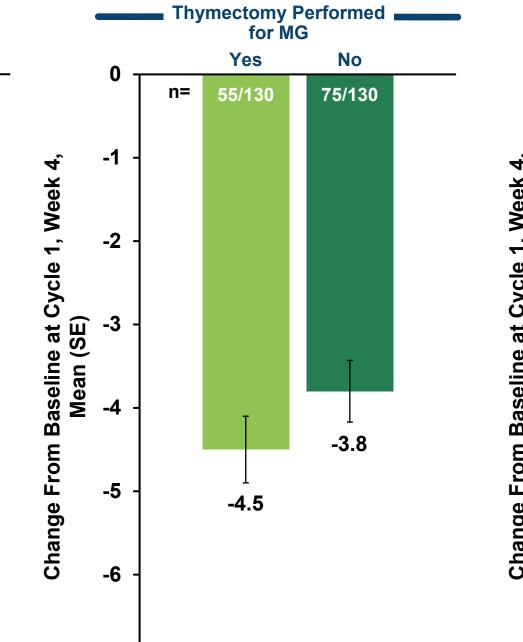
^aEvent rate was calculated as number of events per total PYFU. ^bFatal events (metastatic renal cell cancer, cardiac arrest, pulmonary mass, and COVID-19/respiratory failure) were not related to efgartigimod PH20 SC treatment, as determined by investigators. ^cTreatment discontinuations were due to metastatic renal cell cancer (Cycle 1, death), cardiac arrest (Cycle 2, death), COVID-19/respiratory failure (Cycle 3, death), and MG crisis (Cycle 1). ^dMost frequent TEAEs occurring in >10% of participants receiving efgartigimod PH20 SC.

- Participants experiencing injection site reaction events decreased over subsequent cycles; from 34.6% (n=62/179) in Cycle 1 to 10.3% (n=7/68) in Cycle 9
- No injection site reactions were grade ≥3, serious, or resulted in treatment discontinuation

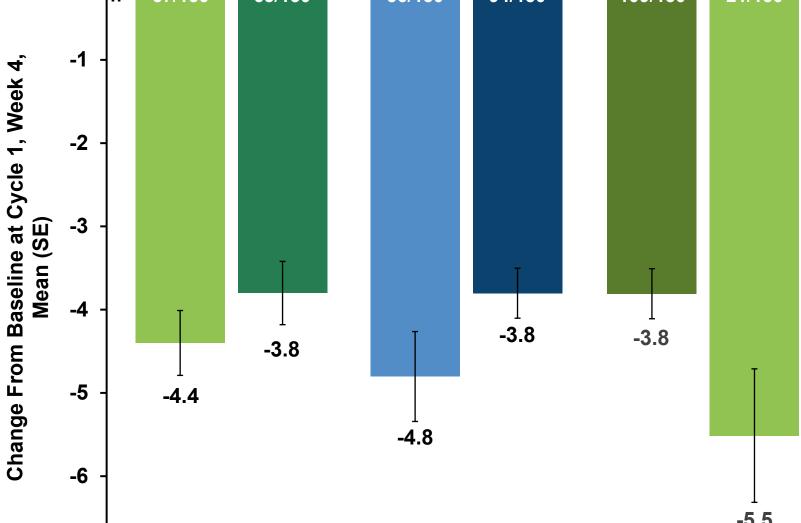
Figure 1. Week 4^a MG-ADL Score Change from Baseline by Disease Duration AChR-Ab+ Population

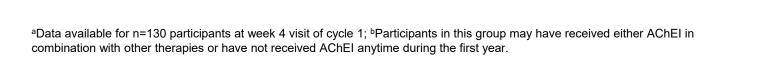




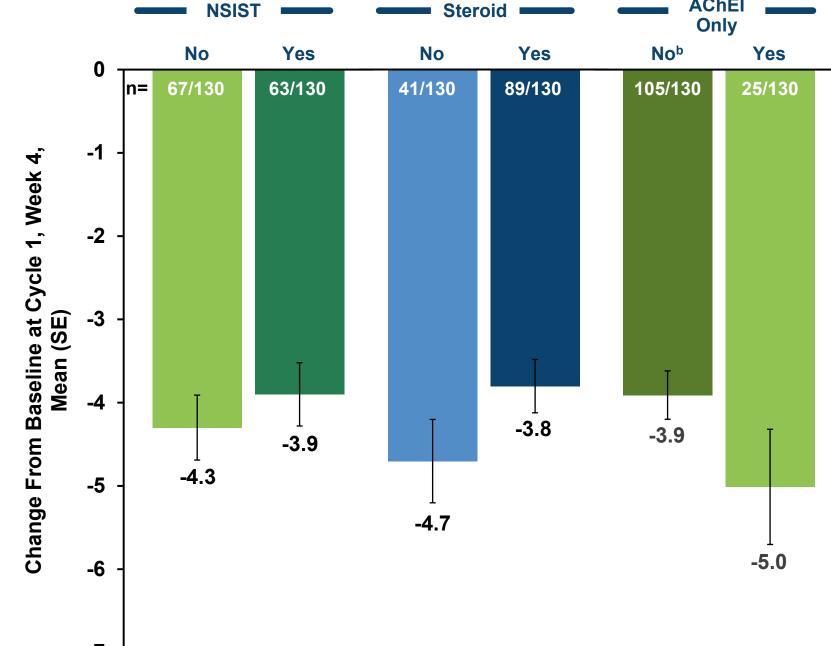


^aData available for n=130 participants at week 4 visit of cycle 1









^aData available for n=130 participants at week 4 visit of cycle 1; ^bParticipants in this group may have received either AChEI in combination with other therapies or have not received AChEI anytime during the first year.

ABBREVIATIONS

AChEI, acetylcholinesterase inhibitor; AChR-Ab, acetylcholine receptor antibody; ER, event rate; Fc, fragment crystallizable region; FcRn, neonatal Fc receptor; gMG, generalized myasthenia gravis; Ig, immunosuppressive therapy; OLE, open-label extension; PD, pharmacodynamic; PK, pharmacokinetic; PYFU, participant years of follow-up (sum of follow-up time of all participants expressed in years in the applicable period); rHuPH20, recombinant human hyaluronidase PH20; SC, subcutaneous; TEAE, treatment-emergent adverse event.

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REFERENCES

1. Ulrichts P, et al. J Clin Invest. 2018;128:4372-4386. 2. Ward ES, Ober RJ. Trends Pharmacol Sci. 2018;39:892-904. 3. Vidarsson G, et al. Front Immunol. 2014;5:520. 4. Howard JF Jr, et al. Autoimmunity. 2022;55:620-631. 6. Study ARGX-113-2001 (ADAPT-SC) Clinical Trial Protocol v2.0, 02 Jul 2021. 7. Locke KW, et al [published correction appears in Drug Deliv. 2019;26(1):98-106. 8. Casey J, et al. Poster presented at: American Academy of Neurology (AAN) Annual Meeting; April 22-27, 2023; Boston, MA.

^aData available for n=130 participants at week 4 visit of cycle 1

