

Long-Term Safety and Efficacy of Subcutaneous Efgartigimod PH20: Interim Results of the ADAPT-SC+ Trial

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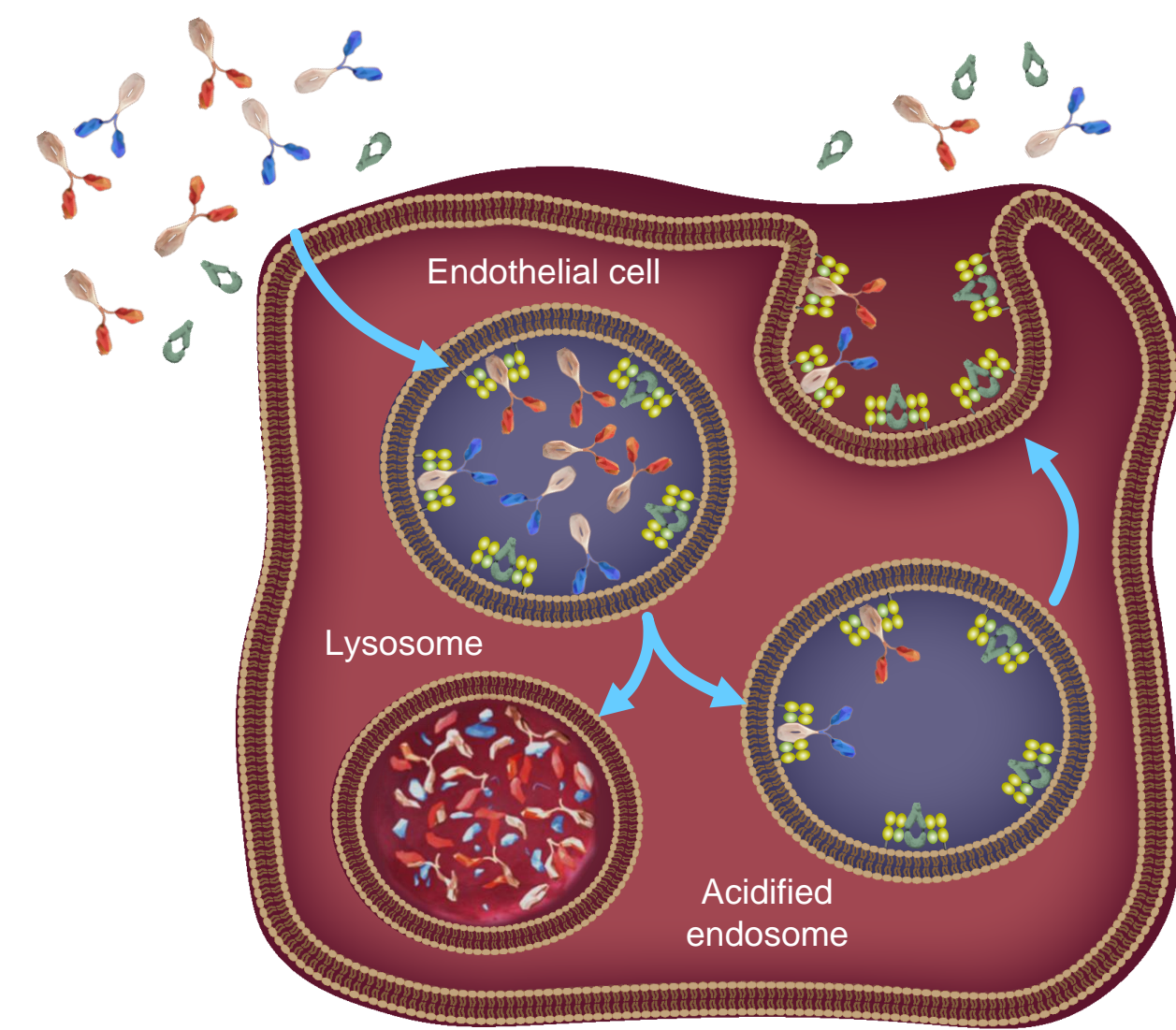
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INTRODUCTION

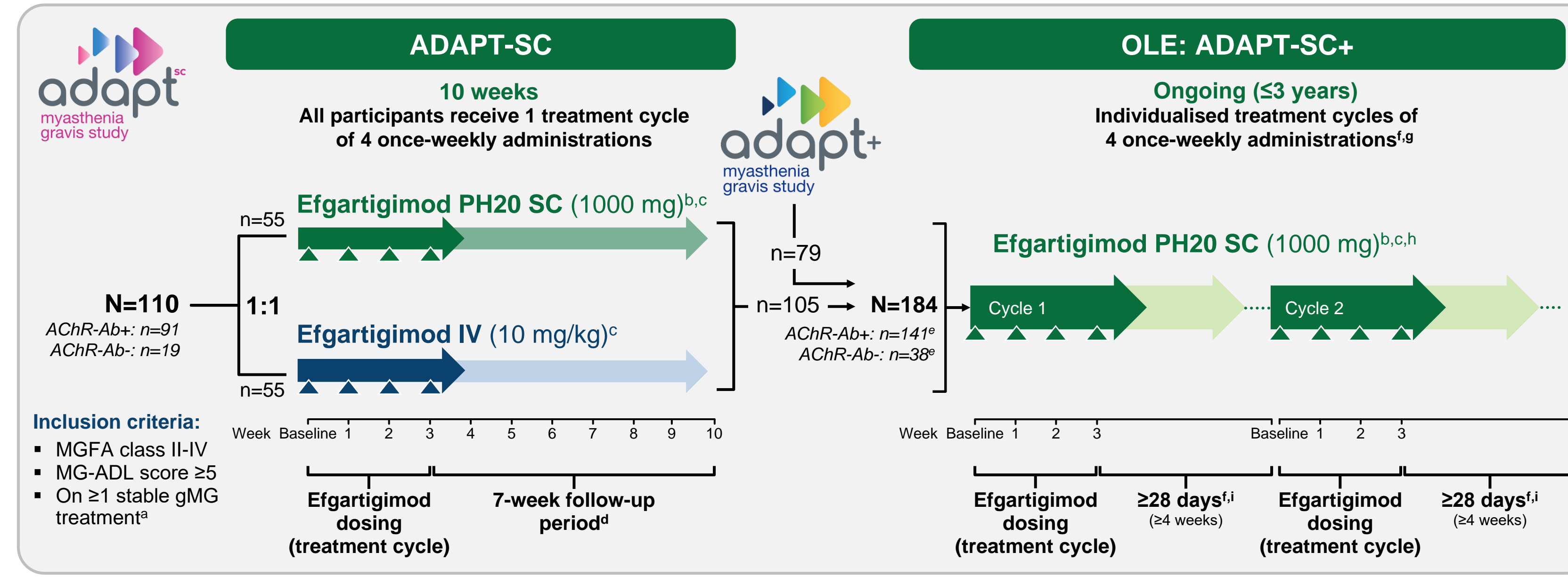
Efgartigimod Mechanism of Action: Blocking FcRn



- FcRn recycles IgG to extend its half-life and maintain its high serum concentration¹
 - FcRn is additionally involved in other cellular processes such as albumin recycling, as well as IgG-dependent phagocytosis and antigen presentation²
- Efgartigimod is a human IgG1 Fc fragment, a natural ligand of FcRn, engineered to have increased affinity for FcRn and outcompete endogenous IgG^{3,4}
- Efgartigimod binding to FcRn prevents IgG recycling and promotes its lysosomal degradation, reducing IgG levels without impacting IgG production³⁻⁶
 - Targeted reduction of all IgG subtypes^{3,5}
 - No impact on IgM, IgA, IgE, or IgD^{3,6}
 - No reduction in albumin or increase in cholesterol levels⁵⁻⁷
- Efgartigimod PH20 SC is a coformulation of efgartigimod and recombinant human hyaluronidase PH20 (rHuPH20), which allows for rapid SC administration of larger volumes^{8,9}
- PK/PD modeling and phase 3 data (ADAPT-SC) suggest 4 once-weekly administrations of 1000 mg efgartigimod PH20 SC and 10 mg/kg efgartigimod IV result in comparable decreases in IgG levels^{8,10}

RESULTS

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. ^eAChR-Ab status is reported only for the population who received ≥1 dose of efgartigimod PH20 SC (n=179). ^f≥28 days between the last dose of the previous treatment period and the first dose of the next treatment period and based on the need for treatment as determined by the investigator. ^gParticipants who are not in need of retreatment at study entry will instead start with an intertreatment period. ^hParticipants were not required to have worsening of MG-ADL to be eligible for subsequent cycles. ⁱDuring the second year onward, it is recommended to have ≥28 days between treatment cycles. However, a subsequent treatment period can be administered earlier based on clinical evaluation at the discretion of the investigator, with a minimum interval of 7 days after the last administration.

CONCLUSION

- Efgartigimod PH20 SC was well tolerated over a total of 193.4 PYFU with no new safety signals observed compared with ADAPT-SC
- All injection site reactions were mild or moderate, decreased with subsequent cycles, and none led to treatment discontinuation
- Efgartigimod PH20 SC treatment resulted in consistent and repeatable improvements in MG-ADL, MG-QoL15r, and EQ-5D-5L VAS in AChR-Ab+ participants with gMG
- The majority of AChR-Ab+ participants experienced a CMI in MG-ADL, and a subset were able to achieve MSE; the proportions of AChR-Ab+ participants achieving CMI or MSE were consistent across multiple cycles
- The ADAPT-SC+ study is ongoing

Table 1. Participant Demographics and Baseline Characteristics

	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)
AChEI only	29 (16.2)	23 (16.3)

Table 2. Summary of AEs

	Efgartigimod PH20 SC (n=179; PYFU=193.4)	
	ER ^a	n (%)
Any AE	9.0	152 (84.9)
Any AE grade ≥3	0.4	36 (20.1)
Any SAE	0.3	33 (18.4)
Any injection site reaction	3.2	82 (45.8)
Any infection	1.0	91 (50.8)
Fatal event ^b	<0.1	4 (2.2)
Discontinued study treatment owing to AEs ^c	<0.1	4 (2.2)
Most commonly observed AEs ^d		
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)
Diarrhoea	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 AEs 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

- 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

ABBREVIATIONS
AChEI, acetylcholinesterase inhibitor; AChR-Ab, acetylcholine receptor antibody; AE, adverse event; CMI, clinically meaningful improvement; EQ-5D-5L VAS, EuroQol 5-Dimension, 5-Level Visual Analog Scale; ER, event rate; Fc, fragment crystallisable region; FcRn, neonatal Fc receptor; gMG, generalised myasthenia gravis; Ig, immunoglobulin; IV, intravenous; MG, myasthenia gravis; MG-ADL, Myasthenia Gravis Activities of Daily Living; MGFA, Myasthenia Gravis Foundation of America; MG-QoL15r, Myasthenia Gravis Quality of Life 15-Item Questionnaire, Revised; MSE, minimal symptom expression; NSiST, nonsteroidal 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; SAE, serious adverse event; SC, subcutaneous; SE, standard error.

ACKNOWLEDGMENTS AND DISCLOSURES: The authors gratefully acknowledge the ADAPT+, ADAPT-SC, and ADAPT-SC+ trial participants and investigators.
J.L.D.B.: argenx, Alexion, CSL, UCB, Amgen, Janssen, and Sanofi. J.F.H.: Ad Scientiam, Alexion, AstraZeneca Rare Disease, argenx, Cartesian, Centers for Disease Control and Prevention, MGFA, Muscular Dystrophy Association, NIH, PCORI, UCB Pharma AcademicCME, Alexion, AstraZeneca Rare Disease, argenx, Biologix, CheckRare CME, F. Hoffmann-LarRoche, Horizon Therapeutics plc (now Amgen), Medscape CME, Merck EMB Serono, NMD, Novartis, PeerView CME, Physicians' Education Resource (PER) CME, PlatformQ CME, Regeneron, Sanofi, Zai Labs, and Toleranzia AB. Y.L.: argenx, UCB, Alexion, Catalyst, and Immunovant. T.V.: Alexion, argenx, CSL Behring, Allergan/AbbVie, AstraZeneca, Ra/UCB, Horizon, Regeneron, Janssen/Momenta, Immunovant, Cartesian Therapeutics, and Sanofi. D.K.: Roche, Novartis Russia, Sanofi, Merck, Janssen, Novartis, UCB, argenx, Horizon Therapeutics, Bristol Myers Squibb, and BiOCAD. S.S., B.V.H., J.P. and M.H.: argenx, KU: argenx, UCB, Janssen, Viela Bio/Horizon Therapeutics, Chugai Pharma, Merck, Mitsubishi Tanabe Pharma Corporation, Alexion, and the Japan Blood Products Organization. F.S.: Alexion, Biogen, Mylan, Novartis, Roche, Sanofi, Teva, Almirall, argenx, Avexis, Forward, Lexco, Merck, Novartis, Pomona, Takeda, and Pilenia. H.W.: AbbVie, Actelion, Alexion, Amicus, argenx, Biogen, Bristol Myers Squibb/Celgene, CSL Behring, EMD Serono, F. Hoffmann-La Roche Ltd., Fondazione Cariplo, Genzyme, Gossamer Bio, German Ministry for Education and Research (BMBF), Deutsche Forschungsgemeinschaft (DFG), Deutsche Myasthenie Gesellschaft e.V., Idorsia, Immune, Immunovant, Janssen, Lundbeck, Merck, Neurodiem, NexGen, Novartis, PSI CRO, Roche, Sanofi, Swiss Multiple Sclerosis Society, TEVA, UCB, WebMD Global, and Worldwide Clinical Trials. R.M.: Alexion, argenx, Ra, BiMarin, Catalyst, UCB, Teva, Merck, Roche, and Biogen.

EC-V: argenx, UCB, Alexion, and Janssen.
The ADAPT+, ADAPT-SC, and ADAPT-SC+ trials were funded by argenx. Medical writing and editorial support for this presentation was provided by Precision AQ and funded by argenx.

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Figure 1. Mean Change in MG-ADL From Study Baseline^a

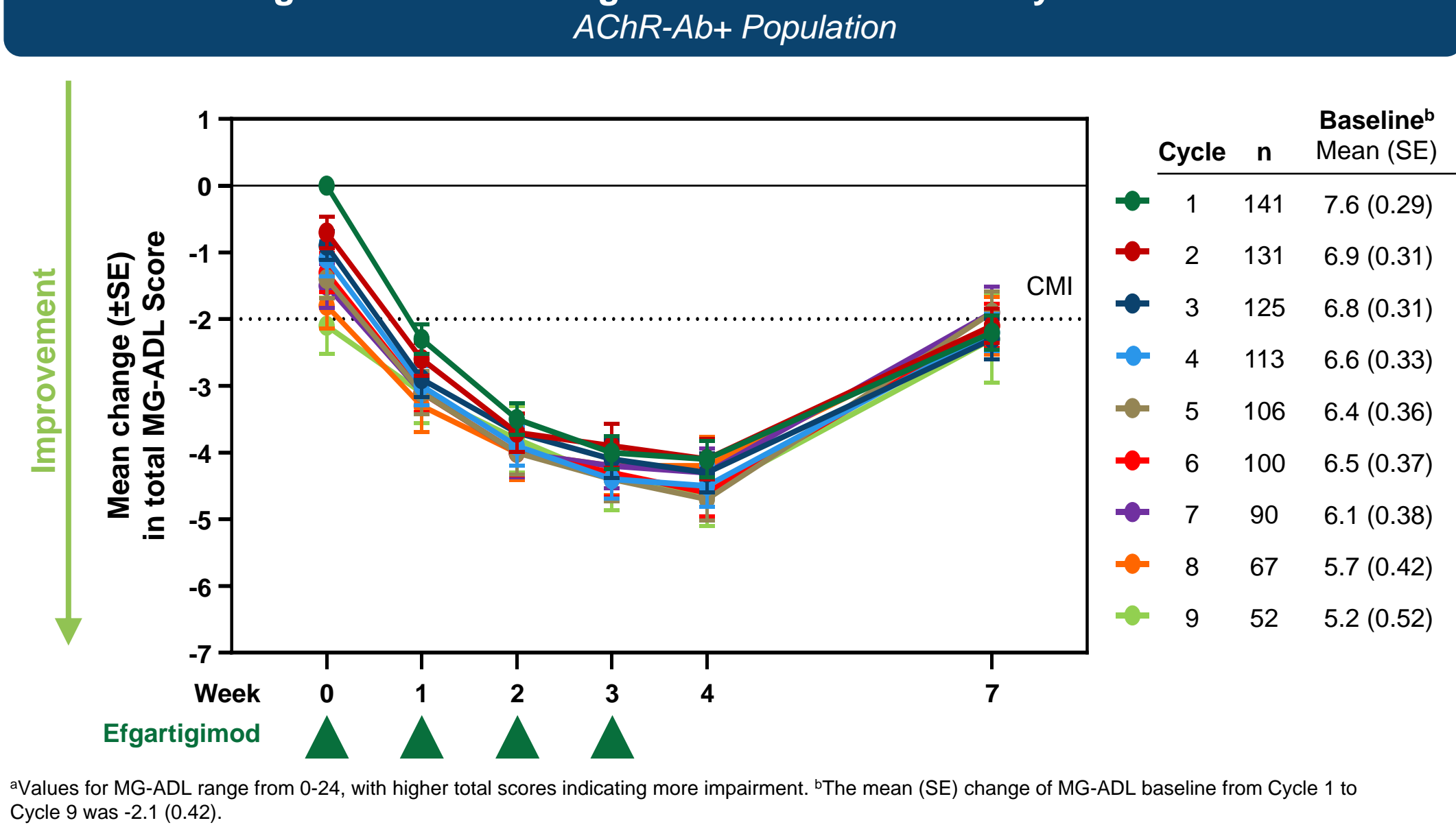


Figure 3. Mean Change in MG-QoL15r From Study Baseline^a

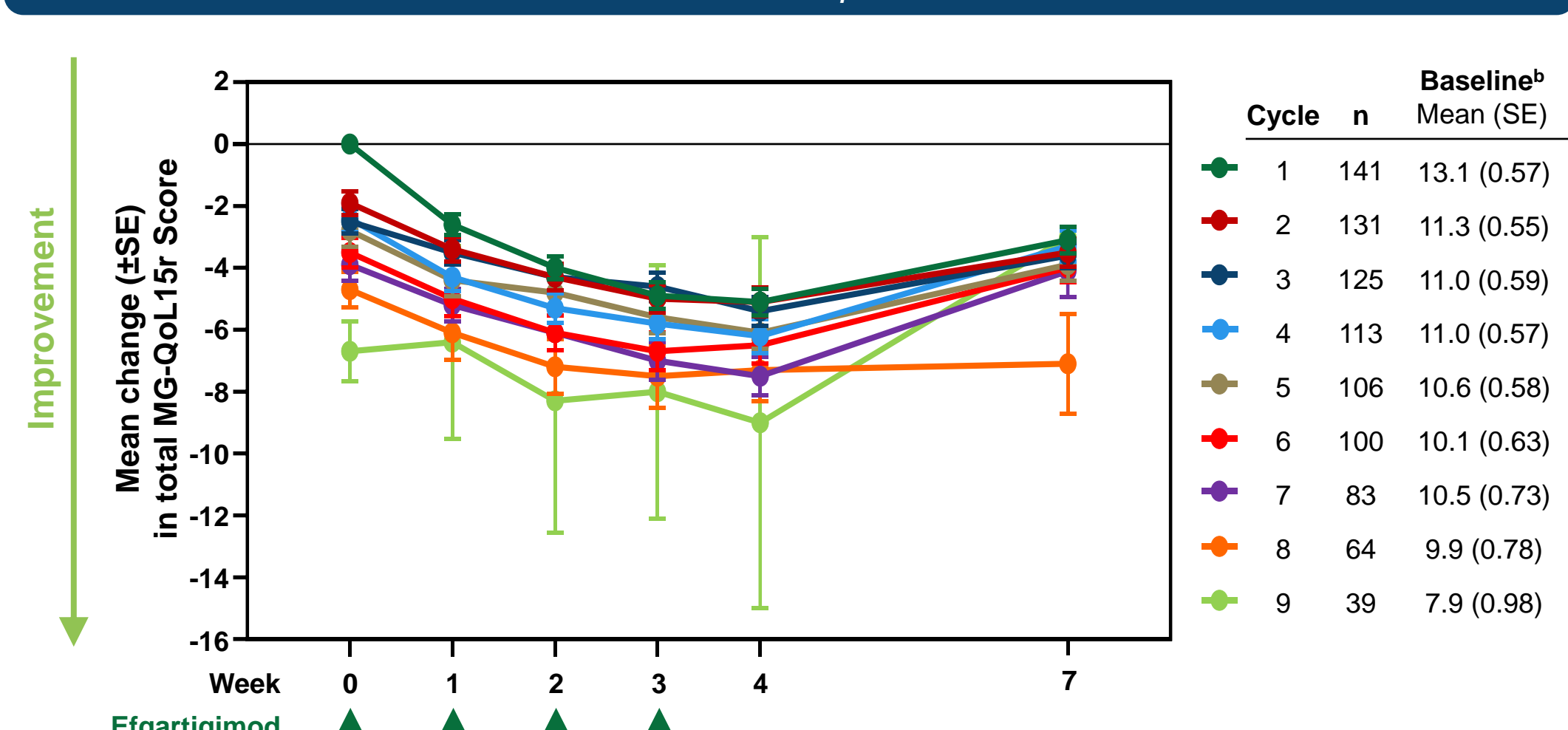


Figure 2. Minimal Symptom Expression and Clinically Meaningful Improvement in MG-ADL by Cycle

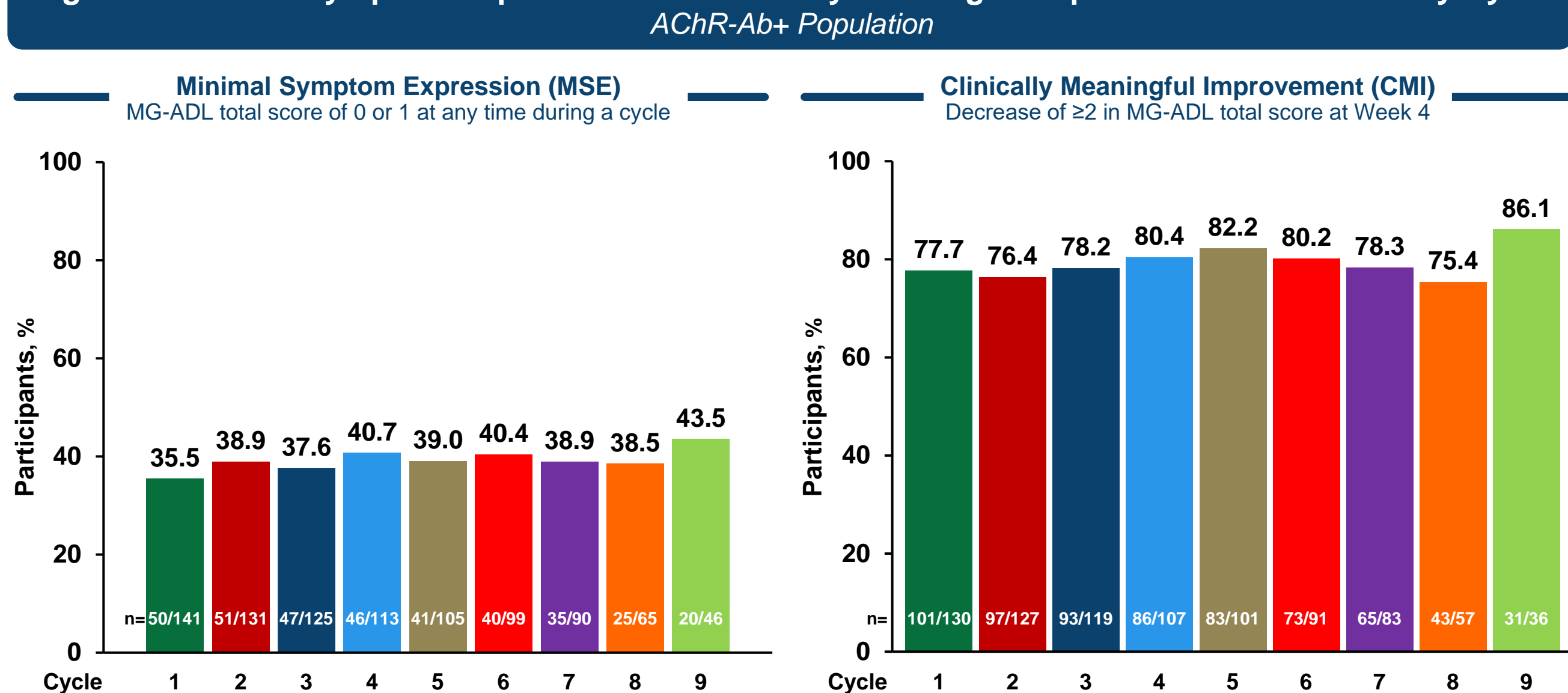


Figure 4. Mean Change in EQ-5D-5L VAS From Study Baseline^a

