

# Response to rozanolixizumab in patients with generalized myasthenia gravis: Final pooled analysis of MycarinG and open-label extension studies

Tuan Vu<sup>1</sup>, Carlo Antozzi<sup>2</sup>, Julian Grosskreutz<sup>3</sup>, Ali A. Habib<sup>4</sup>, Sabrina Sacconi<sup>5</sup>, Kimiaki Utsugisawa<sup>6</sup>, John Vissing<sup>7</sup>, Fiona Grimson<sup>8</sup>, Thaïs Tarancón<sup>9</sup>, Vera Brit<sup>10</sup>

<sup>1</sup>Department of Neurology, University of South Florida Morsani College of Medicine, Tampa, FL, USA; <sup>2</sup>Neuroimmunology and Muscle Pathology Unit, Multiple Sclerosis Center, Fondazione Istituto di Ricovero e Cura a Carattere Scientifico, Istituto Nazionale Neurologico Carlo Besta, Milan, Italy; <sup>3</sup>Precision Neurology of Neuromuscular Diseases, Department of Neurology, University of Lübeck, Lübeck, Germany; <sup>4</sup>MDA ALS & Neuromuscular Center, Department of Neurology, University of California, Irvine, Orange, CA, USA; <sup>5</sup>Université Côte d'Azur, Peripheral Nervous System & Muscle Department, Pasteur 2 Hospital, Centre Hospitalier Universitaire de Nice, Nice, France; <sup>6</sup>Department of Neurology, Hanamaki General Hospital, Hanamaki, Japan; <sup>7</sup>Copenhagen Neuromuscular Center, Department of Neurology, Rigshospitalet, University of Copenhagen, Copenhagen, Denmark; <sup>8</sup>UCB, Slough, UK; <sup>9</sup>UCB, Madrid, Spain; <sup>10</sup>Ellen and Martin Prosserman Centre for Neuromuscular Diseases, Toronto General Hospital, University of Toronto, Toronto, Ontario, Canada

AANEM & MGFA Scientific Session, San Francisco, CA, USA; October 29–November 1, 2025

### Introduction

- Rozanolixizumab is a humanized IgG4 mAb FcRn blocker approved for the treatment of adults with anti-AChR Ab+ or anti-MuSK Ab+ gMG<sup>1</sup>
- In the double-blind, placebo-controlled, Phase 3 MycarinG study (MG0003/NCT03971422), one 6-week cycle of rozanolixizumab led to clinically meaningful and statistically significant improvements in MG-specific outcomes versus placebo and was generally well tolerated in adults with gMG<sup>2</sup>
- After MycarinG, patients could enroll in the now completed OLE studies: MG0004 (NCT04124965) then MG0007 (NCT04650854), or MG0007 directly
- Here, we evaluate the response to repeated rozanolixizumab cycles in patients with gMG using different MG-ADL and QMG responder thresholds

### Methods

- In MycarinG, patients were randomized to receive subcutaneous infusions of rozanolixizumab 7 mg/kg, 10 mg/kg or placebo once weekly for 6 weeks
- In MG0004, patients received once-weekly rozanolixizumab 7 mg/kg or 10 mg/kg for up to 52 weeks
- In MG0007, following an initial 6-week rozanolixizumab 7 mg/kg or 10 mg/kg cycle, subsequent cycles were administered upon symptom worsening at the investigator's discretion
- Efficacy data were pooled for patients with ≥2 symptom-driven rozanolixizumab treatment cycles across MycarinG, MG0004 (first 6 weeks) and MG0007; up to 13 cycles are reported
- Safety data were pooled for patients receiving ≥1 rozanolixizumab treatment cycle with an up to 8-week follow-up period across MycarinG and MG0007

- MG-ADL response was prespecified as a ≥2.0-point improvement in MG-ADL score without rescue therapy at Day 43 in each cycle; ≥3.0-point and ≥5.0-point thresholds were assessed *post hoc*
- QMG response was prespecified as a ≥3.0-point improvement in QMG score without rescue therapy at Day 43 in each cycle; a ≥5.0-point threshold was assessed *post hoc*
- Safety outcomes included the incidence of TEAEs

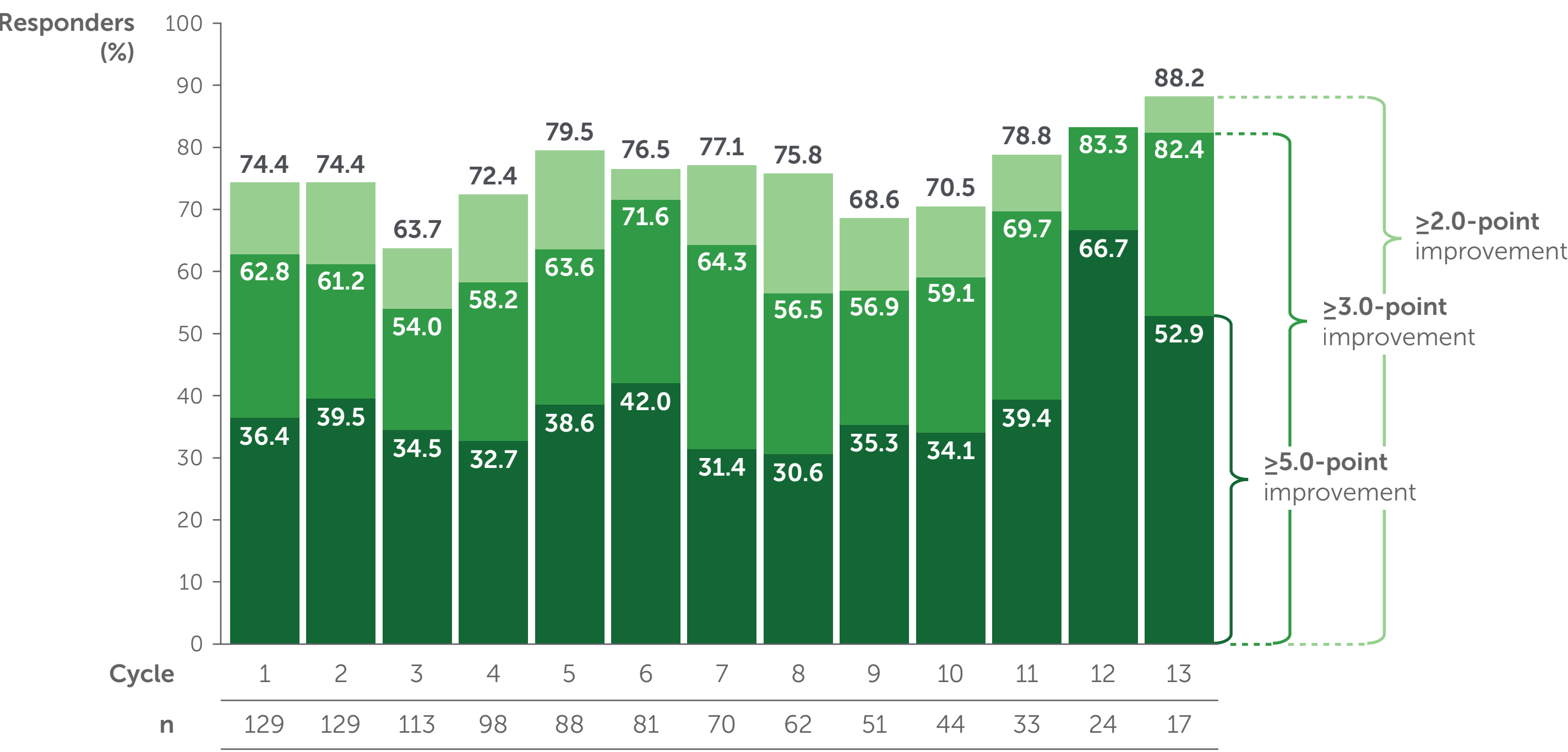
### Results

- Overall, 129 patients received ≥2 symptom-driven cycles of rozanolixizumab
- Baseline demographics and disease characteristics were indicative of a broad population of patients with gMG (**Table 1**)
- Clinically meaningful (≥2.0-point) improvement in MG-ADL score was achieved by ≥63.7% of patients across Cycles 1–13 (**Figure 1**)
  - More stringent ≥3.0-point and ≥5.0-point improvements were achieved by ≥54.0% and ≥30.6% of patients, respectively, across all cycles up to Cycle 13
- Clinically meaningful (≥3.0-point) improvement in QMG score was achieved by ≥60.6% of patients across Cycles 1–13 (**Figure 2**)
  - A ≥5.0-point improvement was achieved by ≥40.2% of patients across all cycles up to Cycle 13
- At the group level, a mean improvement in MG-ADL score of approximately 3.0 points from baseline was maintained over 130 weeks of repeated rozanolixizumab treatment cycles (**Figure 3**)
- Over a total of 1,094 cycles, 93.1% (n=175/188) of patients experienced a TEAE; most were mild or moderate
  - The most common TEAEs were headache (50.0%), diarrhea (33.5%), COVID-19 (21.8%) and pyrexia (20.7%)

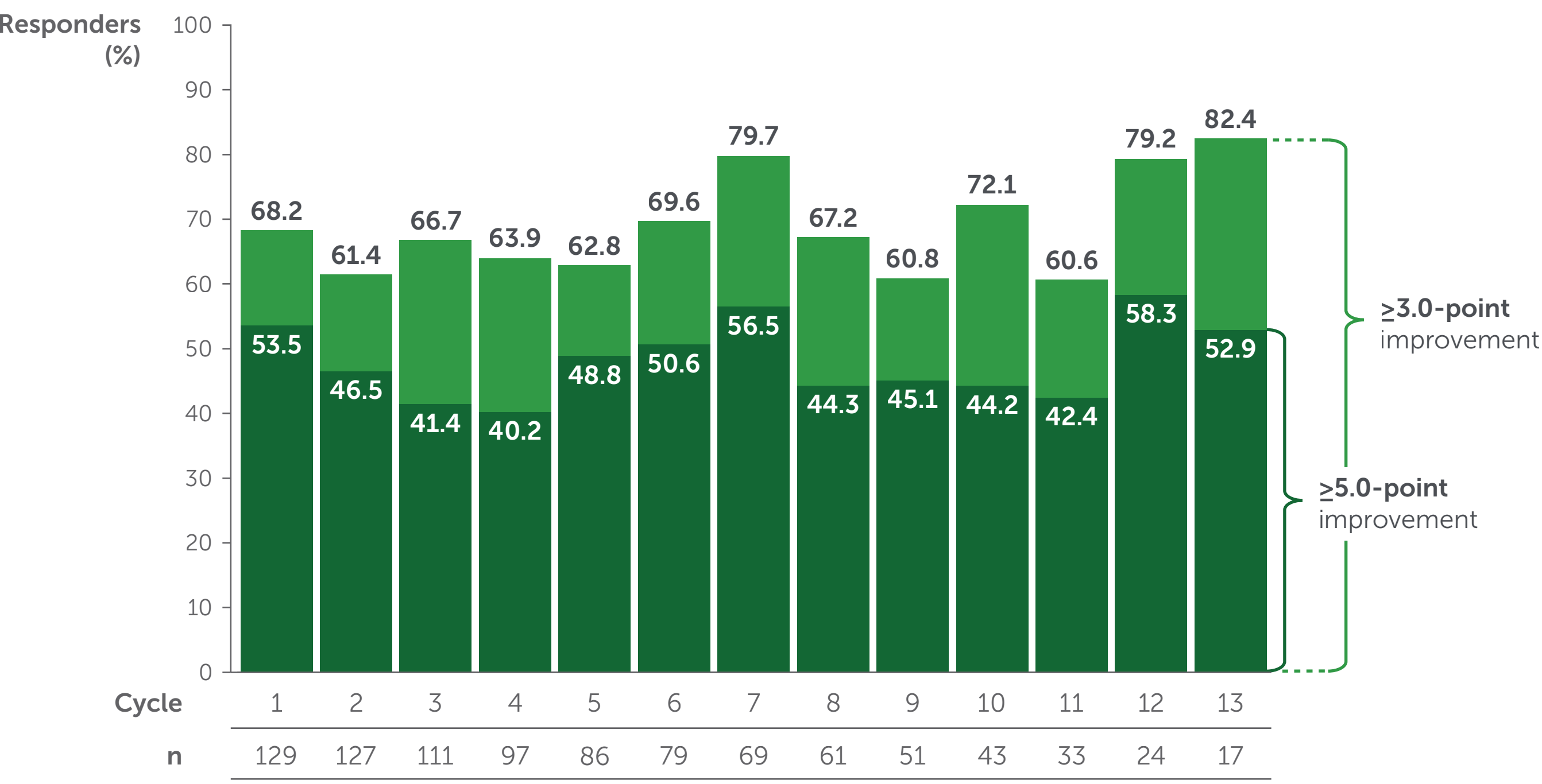
### Summary and conclusions

- Across Cycles 1–13, high MG-ADL responder rates were observed; in each cycle, more than 63% of patients achieved a ≥2.0-point improvement in MG-ADL score, and over 30% achieved a ≥5.0-point improvement
- Similar improvements were observed in QMG score – more than 60% of patients achieved a ≥3.0-point improvement, and over 40% achieved a ≥5.0-point improvement in each cycle
- At the group level, long-term efficacy was maintained over 130 weeks of cyclic rozanolixizumab treatment
- Clinically meaningful improvements in MG-specific outcomes were maintained over time, supporting a consistent response to rozanolixizumab across repeated treatment cycles

**Figure 1** Rozanolixizumab demonstrated efficacy across 13 cycles using the prespecified and more stringent MG-ADL responder thresholds



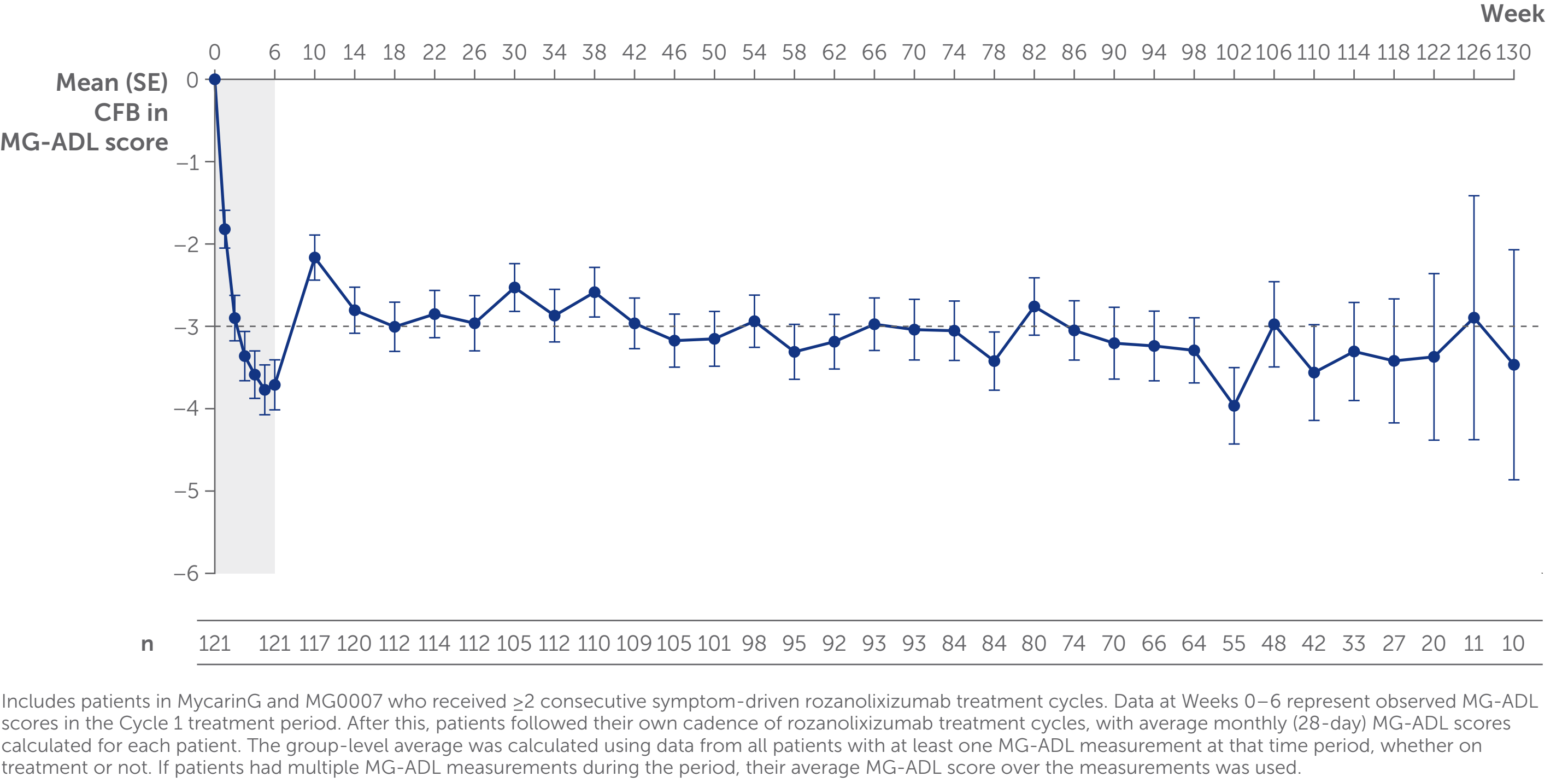
**Figure 2** Rozanolixizumab demonstrated efficacy across 13 cycles using the prespecified and more stringent QMG responder thresholds



**Table 1** Baseline demographics and disease characteristics were indicative of a broad population of patients with gMG

	RLZ total (N=129)
Age, years, mean (SD)	50.9 (16.3)
Sex, female, n (%)	77 (59.7)
Thymectomy, yes, n (%)	55 (42.6)
Anti-AChR Ab+, n (%)	117 (90.7)
Anti-MuSK Ab+, n (%)	12 (9.3)
MG-ADL score at baseline, mean (SD)	8.7 (3.4)
MG-ADL score, n (%)	
<5	13 (10.1)
≥5	116 (89.9)
QMG score at baseline, mean (SD)	16.0 (3.8)
QMG score, n (%)	
II	52 (40.3)
III	72 (55.8)
IV	5 (3.9)
Duration of disease from diagnosis, years, mean (SD)	8.1 (8.5)

**Figure 3** Over 130 weeks of repeated rozanolixizumab treatment cycles, a mean improvement in MG-ADL score of approximately 3.0 points from baseline was maintained



**Abbreviations:** Ab+, antibody positive; AChR, acetylcholine receptor; CFB, change from baseline; COVID-19, coronavirus disease 2019; FcRn, neonatal fragment crystallizable receptor; gMG, generalized myasthenia gravis; IgG4, immunoglobulin G4; mAb, monoclonal antibody; MG, myasthenia gravis; MG-ADL, Myasthenia Gravis Activities of Daily Living; MGFA, Myasthenia Gravis Foundation of America; MuSK, muscle-specific tyrosine kinase; OLE, open-label extension; QMG, Quantitative Myasthenia Gravis; RLZ, rozanolixizumab; SD, standard deviation; SE, standard error; TEAE, treatment-emergent adverse event.

**Acknowledgments:** This study was funded by UCB. The authors acknowledge Annabel Dimmock, MBiol, of Ogilvy Health, London, UK, for editorial assistance, which was funded by UCB. The authors thank Veronica Porkess, PhD, of UCB, Slough, UK, for publication and editorial support. The authors thank the patients and their caregivers, in addition to the investigators and their teams who contributed to this study.

**Author disclosures:** Tuan Vu is the USF Site Principal Investigator for MG clinical trials sponsored by Alexion/AstraZeneca Rare Disease. Amgen, argenx, Cartesian Therapeutics, COUR Pharmaceuticals, Dianthus Therapeutics, Immunovant, Johnson & Johnson, NMD Pharma, Regeneron Pharmaceuticals and UCB, and has served as a speaker for Alexion/AstraZeneca Rare Disease, argenx and CSL Behring. He has performed consulting work for Alexion/AstraZeneca Rare Disease, argenx, Dianthus Therapeutics and Immunovant.

Carlo Antozzi has received funding for congress and Institutional Review Board participation from Alexion Pharmaceuticals, argenx, Biogen, Janssen Pharmaceuticals (now Johnson & Johnson Innovative Medicine), Momenta (now Johnson & Johnson) and UCB. Julian Grosskreutz has served as a Consultant for Alexion Pharmaceuticals, Biogen and UCB, and his institution has received research support from the Boris Canessa Foundation. Ali A. Habib has received research support and/or honoraria from Alexion/AstraZeneca Rare Disease, Amgen, Arcellx, argenx, Cabaletta Bio, Cartesian Therapeutics, COUR Pharmaceuticals, Genentech/Roche, Grifols, Immunovant, Janssen Pharmaceuticals (now Johnson & Johnson Innovative Medicine), Kyverna, Merck, MGNet, Nkarta, NMD Pharma, Novartis, Regeneron Pharmaceuticals and UCB. Sabrina Sacconi has nothing to disclose. Kimiaki Utsugisawa has served as a paid Consultant for argenx, Chugai Pharmaceutical, HanAll Biopharma, Janssen Pharmaceuticals (now Johnson & Johnson Innovative Medicine), Merck, Mitsubishi Tanabe Pharma, UCB and Vela Bio (now Amgen); he has received speaker honoraria from Alexion Pharmaceuticals, argenx, the Japan Blood Products Organization and UCB. John Vissing has been a Consultant on advisory boards for Amicus Therapeutics, Biogen, Edgewise Therapeutics, Fulcrum Therapeutics, Genethon, Horizon Therapeutics (now Amgen), Lupin, ML Biopharma, Novartis, Regeneron Pharmaceuticals, Roche, Sanofi Genzyme (now Sanofi), Sarepta Therapeutics and UCB. He has received research and travel support and/or speaker honoraria from Alexion Pharmaceuticals, argenx, Biogen, Edgewise Therapeutics, Fulcrum Therapeutics, Lupin, Sanofi Genzyme (now Sanofi) and UCB. He is a Principal Investigator in clinical trials for Alexion Pharmaceuticals, argenx, Atamyo Therapeutics, Genethon, Horizon Therapeutics (now Amgen), Janssen Pharmaceuticals (now Johnson & Johnson Innovative Medicine), ML Biopharma, Novartis, Regeneron Pharmaceuticals, Roche, Sanofi Genzyme (now Sanofi) and UCB. Fiona Grimson and Thaïs Tarancón are employees and shareholders of UCB. Vera Brit is a Consultant for Akcea, Alexion Pharmaceuticals, Alnylam, argenx, CSL, Grifols, Immunovant, Ionis, Janssen Pharmaceuticals (now Johnson & Johnson Innovative Medicine), Momenta (now Johnson & Johnson), Novo Nordisk, Octapharma, Pfizer, Powell Mansfield, Roche, Sanofi, Takeda Pharmaceuticals and UCB. She has received research support from Akcea, Alexion Pharmaceuticals, argenx, CSL, Grifols, Immunovant, Ionis, Momenta (now Johnson & Johnson), Octapharma, Takeda Pharmaceuticals, UCB and Vela Bio (now Amgen).

**References:** 1. RYSTIGGO® US PI. <https://www.ucb-usa.com/RYSTIGGO-prescribing-information.pdf>. Accessed September 2025. 2. Brit V, et al. Lancet Neurol. 2023;22(5):383–394.



Please use this QR code to download a PDF of the poster.