# Response rates with zilucoplan among generalized myasthenia gravis patients in an interim analysis of RAISE-XT, a Phase 3 open-label extension study

# MDA 2024, Orlando, FL, USA; March 3–6, 2024

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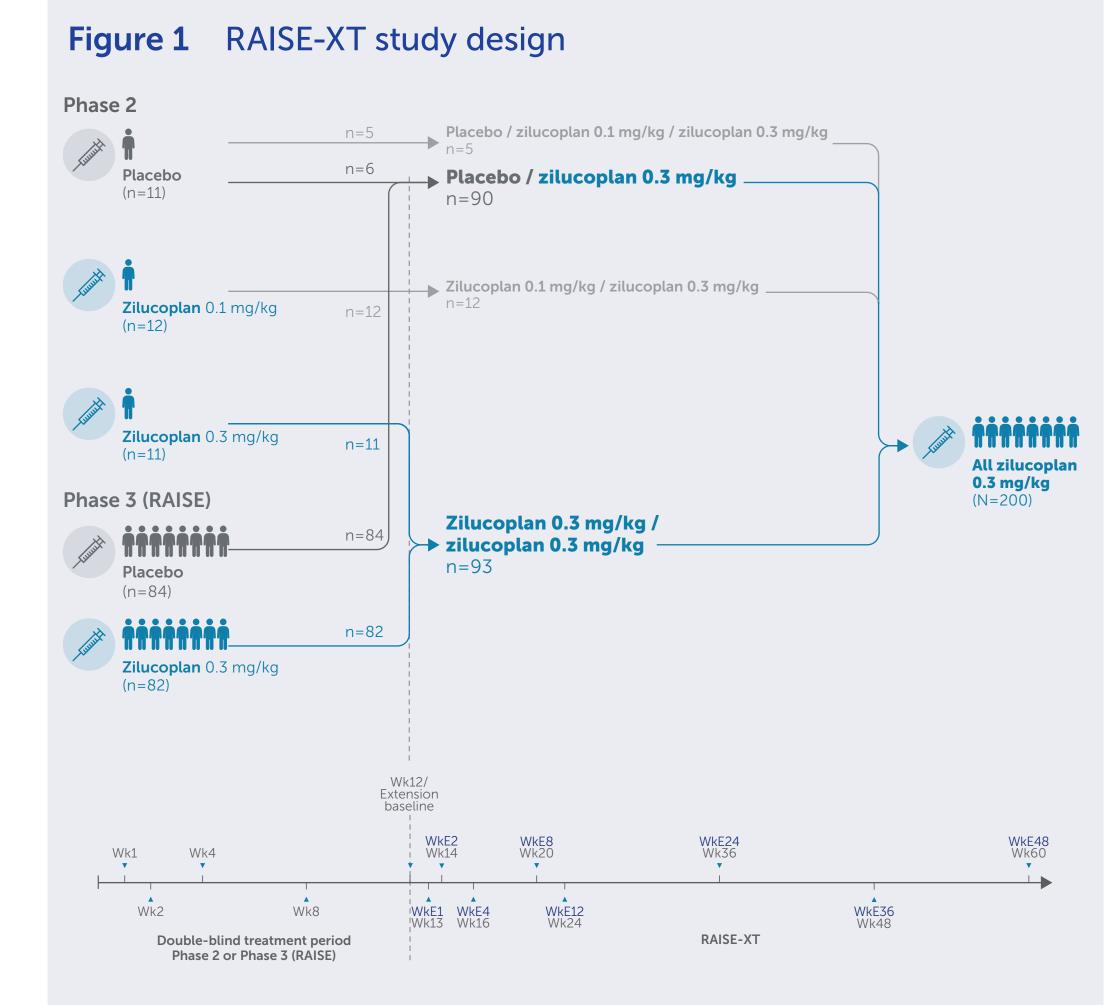
n of the NMJ by	Table 1 Patient demographics and baseline disease characteristics   at RAISE-XT baseline				Table 2 Overview of TEAEs	Placebo/	Zilucoplan	All
dual mechanism 5b and hinders the thereby preventing and formation of	Placebo/ zilucoplan 0.3 mg/kg (n=90)		Zilucoplan All 0.3 mg/kg/ zilucoplan 0.3 mg/kg (N=200) (n=93)			zilucoplan 0.3 mg/kg (n=90) n (%)	0.3 mg/kg/ 0.3 mg/kg (n=93) n (%)	zilucoplan (N=200) n (%)
	Age, years, mean (SD) <b>53.7</b> (15.5)		<b>52.9</b> (14.5)	<b>53.3</b> (15.0)	Any TEAE	<b>86</b> (95.6)	<b>85</b> (91.4)	<b>188</b> (94.0)
	Sex, male, n (%) <b>42</b> (46		<b>41</b> (44.1)	<b>90</b> (45.0)	Myasthenia gravis	<b>21</b> (23.3)	<b>24</b> (25.8)	<b>52</b> (26.0)
	MGFA Disease	II (IIa, IIb) <b>29</b> (32.2)	<b>25</b> (26.9)	<b>59</b> (29.5)	COVID-19	<b>20</b> (22.2)	<b>24</b> (25.8)	<b>49</b> (24.5)
	Class, n (%)	III (IIIa, IIIb) <b>57</b> (63.3)	<b>60</b> (64.5)	<b>129</b> (64.5)	Headache	<b>14</b> (15.6)	<b>15</b> (16.1)	<b>35</b> (17.5)
		IV (IVa, IVb) 4 (4.4)	8 (8.6)	<b>12</b> (6.0)	Diarrhea	9 (10.0)	<b>17</b> (18.3)	<b>30</b> (15.0)
	MG-ADL score, mean (SD) <b>7.7</b> (4.5)		<b>5.2</b> (3.9)	<b>6.3</b> (4.3)	Nasopharyngitis	<b>10</b> (11.1)	<b>14</b> (15.1)	<b>30</b> (15.0)
with AChR+ gMG in	QMG score, mean (SD) <b>15.6</b> (6.0)		<b>12.5</b> (5.6)	<b>14.0</b> (5.9)	Serious TEAE	<b>23</b> (25.6)	<b>34</b> (36.6)	64 (32.0)
-controlled studies	Prior thymectomy, n (%) <b>39</b> (43.3) Prior MG crisis, n (%) <b>29</b> (32.2)		<b>49</b> (52.7) <b>30</b> (32.3)	<b>96</b> (48.0) <b>62</b> (31.0)	TEAE resulting in permanent withdrawal from IMP*	<b>10</b> (11.1)	7 (7.5)	<b>17</b> (8.5)
of the safety and	Duration of disease, years, mean (SD) 9.3 (10.5)		<b>9.4</b> (9.4)	<b>9.4</b> (9.7)	Treatment-related TEAE	<b>32</b> (35.6)	<b>29</b> (31.2)	<b>67</b> (33.5)
	Age at onset, years, mean (SD) <b>44.0</b> (18.7)		<b>43.4</b> (17.6)	<b>43.6</b> (17.9)	Severe TEAE	<b>24</b> (26.7)	<b>25</b> (26.9)	<b>57</b> (28.5)
	Prior	Corticosteroids 77 (85.6)	<b>85</b> (91.4)	<b>177</b> (88.5)	TEAEs leading to deaths	<b>1</b> (1.1)	<b>3</b> (3.2)	<b>4</b> (2.0)
, multicenter,	gMG-specific medication, n (%)	Immunosuppressants <b>69</b> (76.7) Cholinesterase inhibitors <b>86</b> (95.6)	<b>64</b> (68.8) <b>91</b> (97.8)	<b>147</b> (73.5) <b>194</b> (97.0)	Safety set. Only the most common TEAEs of *Includes deaths. No deaths were considered treatment-rela	occurring in ≥15% c	of patients overall a	re reported.

### Introduction

- Complement-mediated architectural destruction pathogenic autoantibodies is a major mechanism gMG pathology<sup>1,2</sup>
- Zilucoplan is a small peptide C5 inhibitor with a d of action: it prevents C5 cleavage to C5a and C5k formation of C5b6, should any C5b be formed, the activation of the terminal complement pathway a the MAC<sup>3,4</sup>
- Zilucoplan showed clinically meaningful and stati improvements in MG-specific outcomes in patients Phase 2<sup>5</sup> and Phase 3 (RAISE)<sup>4</sup> randomized, placebo
- Long-term data will enhance our understanding efficacy of zilucoplan in patients with gMG

## Methods

- RAISE-XT (NCT04225871) is an ongoing, Phase 3 open-label extension study
- Adults with gMG who completed a qualifying zilucoplan study (Phase 2, NCT03315130; or Phase 3, NCT04115293 [RAISE]) self-administered daily subcutaneous injections of zilucoplan 0.3 mg/kg (Figure 1)
- The primary outcome was incidence of TEAEs
- Here, we report the change from double-blind study baseline to Week 60 (Extension Week 48) in MG-ADL score; proportion of MG-ADL and QMG responders (defined by reduction of  $\geq 3$  points and  $\geq 5$  points without rescue therapy, respectively) up to Week 60; and proportion of patients who achieved MSE (MG-ADL score of 0 or 1) up to Week 60

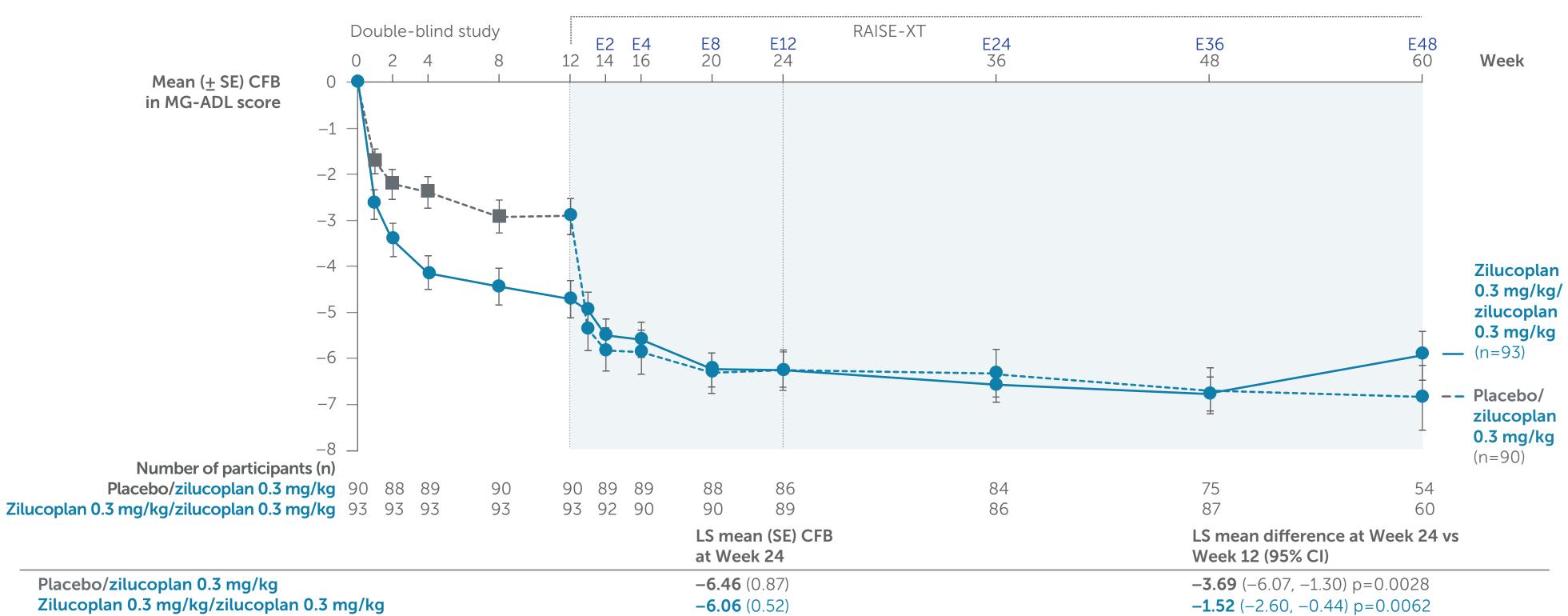


ITT population

Baseline was defined as the last available assessment at the start of RAISE-XT

#### Figure 2 Mean CFB in MG-ADL score to Week 60

were considered treatment-related. LEAEs leading to death included cardiac arrest (n=2)and accidental head injury (n=1) in the zilucoplan 0.3 mg/kg/0.3 mg/kg group, and death from an unknown cause (n=1) in the placebo/zilucoplan 0.3 mg/kg group.



Efficacy data for the zilucoplan 0.1 mg/kg treatment groups are not presented because, due to the small number of participants in each group, no meaningful conclusions can be drawn. These patients are included in the 'all zilucoplan' group.

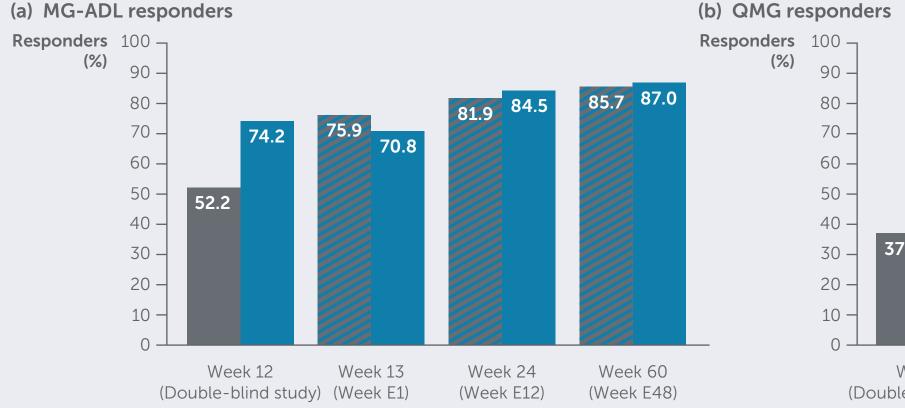
# Results

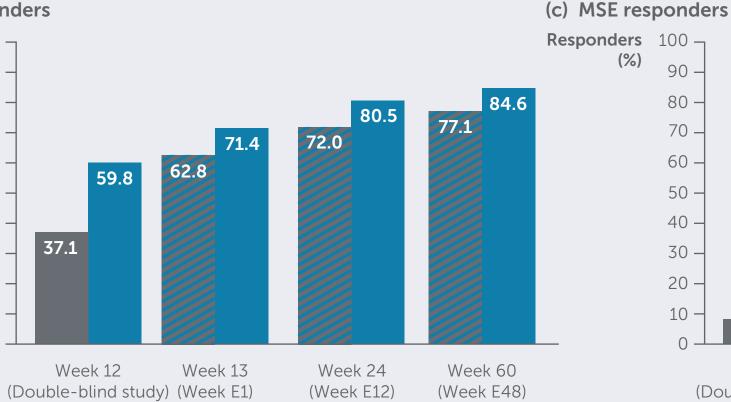
- In total, 200 patients enrolled in RAISE-XT (**Table 1**)
- Median exposure was 1.2 years at data cut-off (September 8, 2022; range 0.11–4.45 years)
- TEAEs occurred in 188 (94%) patients; the most common TEAEs were worsening of MG, and COVID-19 (Table 2)
- Compared to double-blind baseline, MG-ADL scores continued to improve through to Week 24 and were sustained through to Week 60 for the zilucoplan group (Figure 2)

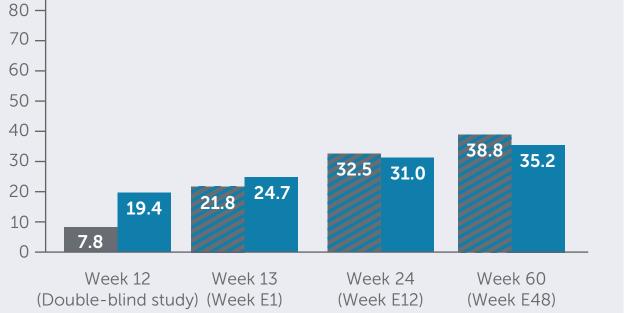
mITT population. Changes from baseline in MG-ADL score were estimated using an MMRM ANCOVA with baseline score, baseline MG-ADL score, baseline QMG score, geographical region, parent study factor, and baseline score X visit (interaction term) as fixed effects and study participant as a random effect. The model included Week 1 to Week 12 (double-blind treatment period) and Week 13 to Week 60 (openlabel extension period). An unstructured correlation structure was used.

#### Figure 3 Responder rates for (a) MG-ADL, (b) QMG and (c) MSE at extension study baseline to Week 60









### Summary and conclusions



This is an interim analysis of RAISE-XT, an open-label Phase 3 extension study to evaluate the long-term safety, tolerability and efficacy of the C5 complement inhibitor zilucoplan in patients with gMG

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In the patients who switched from placebo to zilucoplan, rapid improvements were observed in MG-ADL, QMG and MSE response rates within one week of starting zilucoplan in the OLE, and were maintained up to Week 60

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- Rapid improvements in MG-ADL scores were observed in the placebo-switch group within one week of switching to zilucoplan
- These results were mirrored in QMG, MGC and MG-QoL 15r scores (data not shown)
- The responder rates for MG-ADL, QMG and MSE increased to Week 24 and were sustained through to Week 60 in the zilucoplan group (Figure 3)
  - The placebo-switch group experienced a rapid increase in responder rates within one week after switching to zilucoplan



Zilucoplan demonstrated a favorable long-term safety profile and was well tolerated; no new safety concerns were identified compared with the qualifying double-blind studies

After 60 weeks of treatment with zilucoplan, approximately 87% and 85% of patients were MG-ADL and QMG responders, respectively, and more than 35% of patients achieved MSE

In this interim analysis of RAISE-XT, zilucoplan demonstrated a favorable long-term safety profile; efficacy was sustained over 60 weeks of treatment in a broad population of adult patients with AChR+ gMG

Abbreviations: AChR+, acetylcholine receptor autoantibody-positive; ANCOVA, analysis of covariance; C5(b), complement component 5(b); CFB, change from baseline; CI, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (g)MG, (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), complement component 5(b); CFB, change from baseline; CI, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (g)MG, (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), complement component 5(b); CFB, change from baseline; CI, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (g)MG, (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), complement component 5(b); CFB, change from baseline; CI, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (g)MG, (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), complement component 5(b); CFB, change from baseline; CI, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (g)MG, (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), complement component 5(b); CFB, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (g)MG, (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), complement component 5(b); CFB, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (g)MG, (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), complement component 5(b); CFB, confidence interval; COVID-19, coronavirus disease 2019; E, extension; (generalized) myasthenia gravis; IMP, investigational medicinal product; kDa, analysis of covariance; C5(b), covariance; C5(b), covariance; C5(b), covariance; C5(b), covaria kiloDalton; LS, least squares; MAC, membrane attack complex; MG-ADL, Myasthenia Gravis Foundation of America; MG-QoL 15r, Myasthenia Gravis Quality of Life 15-item revised; (m)ITT, (modified) intention-to-treat; MMRM, mixed model repeated measures; MSE, minimal symptom expression; NMJ, neuromuscular junction; OLE, open-label extension; SD, standard deviation; SE, standard error; TEAE, treatment-emergent adverse event; Wk, week; WkE, extension week.

Acknowledgements: This study was funded by UCB Pharma. The authors acknowledge Rachel Price, PhD and Nishtha Chandra, PhD, of Ogilvy Health, London, UK, for editorial assistance, which was funded by UCB Pharma. The authors acknowledge Rachel Price, PhD and Nishtha Chandra, PhD, of Ogilvy Health, London, UK, for editorial assistance, which was funded by UCB Pharma. The authors acknowledge Veronica Porkess, PhD, UCB Pharma. The authors acknowledge Rachel Price, PhD and Nishtha Chandra, PhD, of Ogilvy Health, London, UK, for publication coordination. 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, argenx, Cartesian Therapeutics, Immunovant, Momenta (now J&J), Ra Pharmaceuticals (now UCB Pharma), Regeneron, Sanofi, and Viela Bio (now Horizon) and receives speaking and consulting honoraria from Alexion, argenx, Dianthus, and UCB Pharma. M. Isabel Leite is funded by NHS (Myasthenia and Related Disorders Service and National Specialised Commissioning Group for Neuromyelitis Optica, UK) and by the University of Oxford, UK. She has been awarded research grants from the UK association for patients with myasthenia – Myaware and the University of Oxford. She has received speaker honoraria or travel grants from, argenx, Biogen Idec, the Guthy-Jackson Charitable Foundation, Novartis and UCB Pharma. Dr Leite serves on scientific or educational advisory boards for argenx, UCB Pharma and Viela (now Horizon). Renato Mantegazza received funding for travel, meeting attendance, or advisory board participation from Alexion, argenx, BioMarin, Catalyst, Regeneron, Sanofi, and UCB Pharma. Babak Boroojerdi, Guillemette de la Borderie, Petra W. Duda, and Mark Vanderkelen are employees and shareholders of UCB Pharma. James F. Howard Jr. has received research support (paid to his institution) from Alexion, argenx, Cartesian Therapeutics, the Centers for Disease Control and Prevention (Atlanta, GA, USA), the Muscular Dystrophy Association, the Myasthenia Gravis Foundation of America, the National Institutes of Health (including the National Institute of Neurological Disorders and Skin Diseases), PCORI, Ra Pharmaceuticals (now UCB Pharma) and Takeda Pharmaceuticals; honoraria from Alexion, argenx, F. Hoffman-LaRoche, Immunovant, Merck EMD Serono, Ra Pharmaceuticals (now UCB Pharma), Regeneron, Sanofi US and Viela Bio (now Horizon); and non-financial support from Alexion, argenx, Ra Pharmaceuticals (now UCB Pharma) and Toleranzia AB. References: 1. Gilhus NE, Verschuuren JJ. Lancet Neurol. 2015;14(10):1023–1036. 2. Howard JF, Jr., et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30(5):483–493. 3. Tang G-Q, et al. Expert Opin Investig Drugs. 2021;30( Neurol. 2020;77(5):582-592.



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Previously presented at AANEM 2023, Phoenix, AZ, USA; November 1-4, 2023