

Achievement of minimal symptom expression in patients with generalized myasthenia gravis receiving zilucoplan: A 120-week post hoc analysis of RAISE-XT

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Introduction

- Zilucoplan is a small (15-amino acid) potent macrocyclic peptide complement C5 inhibitor approved for the treatment of adults with anti-AChR Ab+ gMG^{1,2}
- Zilucoplan showed a rapid (Week 1) and complete complement inhibition (>95%), which was sustained long-term with daily dosing.^{3,4} Additionally, approximately 90% complement inhibition was achieved within 3 hours after the first administration of zilucoplan¹
- Zilucoplan mean plasma terminal elimination half-life was approximately 7–8 days,³ which allows for a fast reversible effect if intact complement activity is urgently required
- The efficacy and safety of zilucoplan have been previously demonstrated in two randomized, placebo-controlled, double-blind studies (Phase 2 [NCT03315130]; Phase 3 [RAISE, NCT04115293]), and were further explored in RAISE-XT (NCT04225871), a Phase 3 OLE study^{2,4}
- Achievement of MSE, defined as an MG-ADL score of 0 or 1, is being increasingly recognized as a treatment goal for patients with gMG⁵
- This post hoc analysis of the Phase 2, RAISE and RAISE-XT studies assessed MSE response rates in patients being treated with zilucoplan, analyzed up to 120 weeks**

Methods

- In RAISE, adults with MGFA Disease Class II–IV anti-AChR Ab+ gMG were randomized 1:1 to once-daily subcutaneous zilucoplan 0.3 mg/kg or placebo for 12 weeks
- Patients completing RAISE, or the qualifying Phase 2 study, could enter RAISE-XT to self-administer once-daily subcutaneous injections of zilucoplan 0.3 mg/kg
 - The primary outcome of RAISE-XT was incidence of TEAEs
- In this post hoc analysis, data were pooled from patients who received zilucoplan 0.3 mg/kg or placebo in the double-blind studies. The following parameters were assessed:
 - Double-blind baseline MG-ADL scores in patients stratified by MSE achievement (MG-ADL score of 0 or 1, without rescue therapy) while on zilucoplan up to Week 120 (data cutoff: November 11, 2023)

- Time to MSE without rescue therapy after initiating zilucoplan treatment among all patients considering 120 weeks of on-treatment follow-up (Kaplan–Meier analysis), and among patients who achieved MSE at any point, up to Week 120 (individual patient observed data)

Results

- Of 200 patients enrolled in RAISE-XT, 183 received zilucoplan 0.3 mg/kg or placebo in the double-blind studies
- Baseline demographics and disease characteristics were indicative of a broad population of patients with mild-to-severe gMG (**Table 1**)
- The cumulative proportion of patients achieving MSE over 120 weeks of follow up after zilucoplan initiation was 62.7% (**Figure 1**; Kaplan–Meier analysis)
- Patients who achieved MSE had MG-ADL scores of 2–18 at double-blind baseline (mean [SD]: 9.7 [3.0], n=102) and patients who did not achieve MSE had baseline scores of 6–19 (11.0 [2.9], n=81; **Figure 2**)
- Among patients who achieved MSE, MSE was first attained as early as 1 week after initiating zilucoplan treatment (**Figure 3**)
 - Within 12 weeks of initiating treatment, 58.8% (n/N=60/102) of these patients had achieved MSE
 - More than three-quarters of patients (78.4% [n/N=80/102]) achieved MSE within 24 weeks
- Overall, 730 observations of MSE were recorded among all patients who achieved MSE, looking up to Week 120; 61.2% (n/N=447/730) of observed events had no residual symptoms reported (MG-ADL score of 0)
 - An analysis of MSE events with an MG-ADL score of 1 showed that ocular items were the most common residual symptoms (33.6%, comprising 13.8% with residual double vision and 19.8% with residual eyelid droop)
- TEAEs occurred in 97.0% (n/N=194/200) of patients and most were mild or moderate

Summary and conclusions



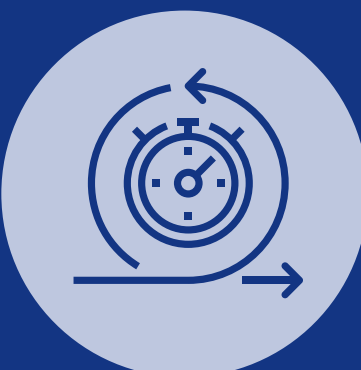
This post hoc analysis of pooled Phase 2, RAISE and RAISE-XT data assessed MSE response in patients with anti-AChR Ab+ gMG treated with zilucoplan and analyzed up to Week 120



MG-ADL scores at double-blind baseline were similar between patients who did and did not achieve MSE. Patients with a broad range of scores, up to 18, achieved MSE during zilucoplan treatment

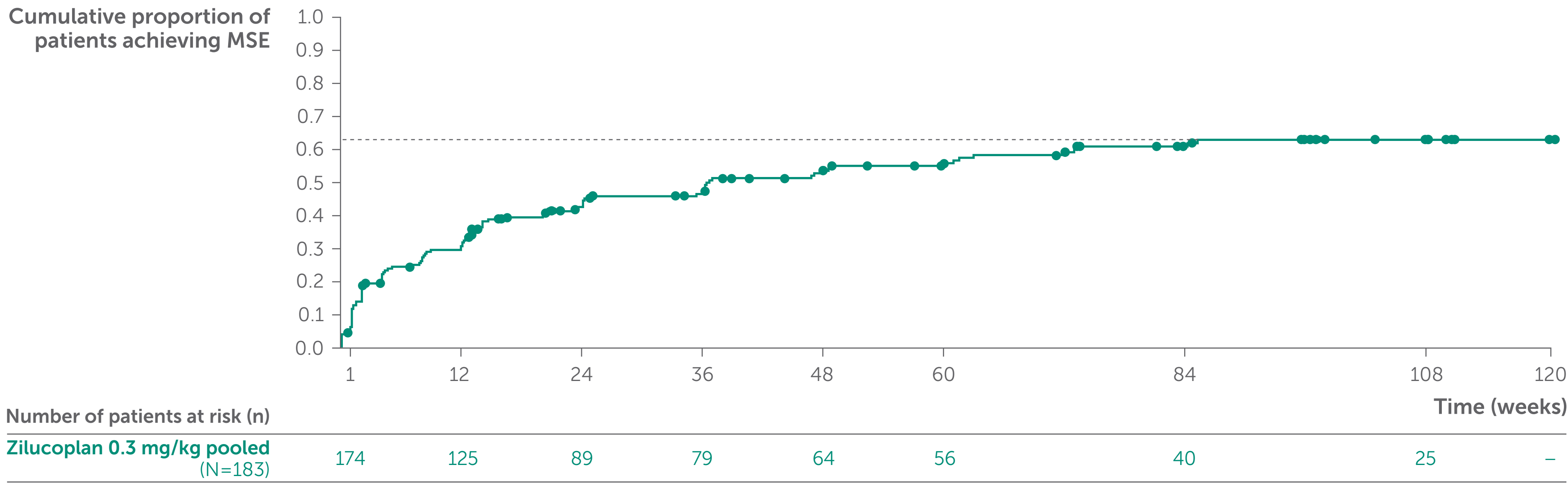


Among patients who achieved MSE, some attained MSE as early as 1 week after zilucoplan initiation and the majority (58.8%) did so within 12 weeks; more than three-quarters of patients (78.4%) achieved MSE within 24 weeks



These data demonstrate that while most patients had a rapid MSE response to zilucoplan, some patients achieved MSE later, supporting the long-term use of zilucoplan

Figure 1 MSE was attained as rapidly as 1 week after initiating zilucoplan treatment



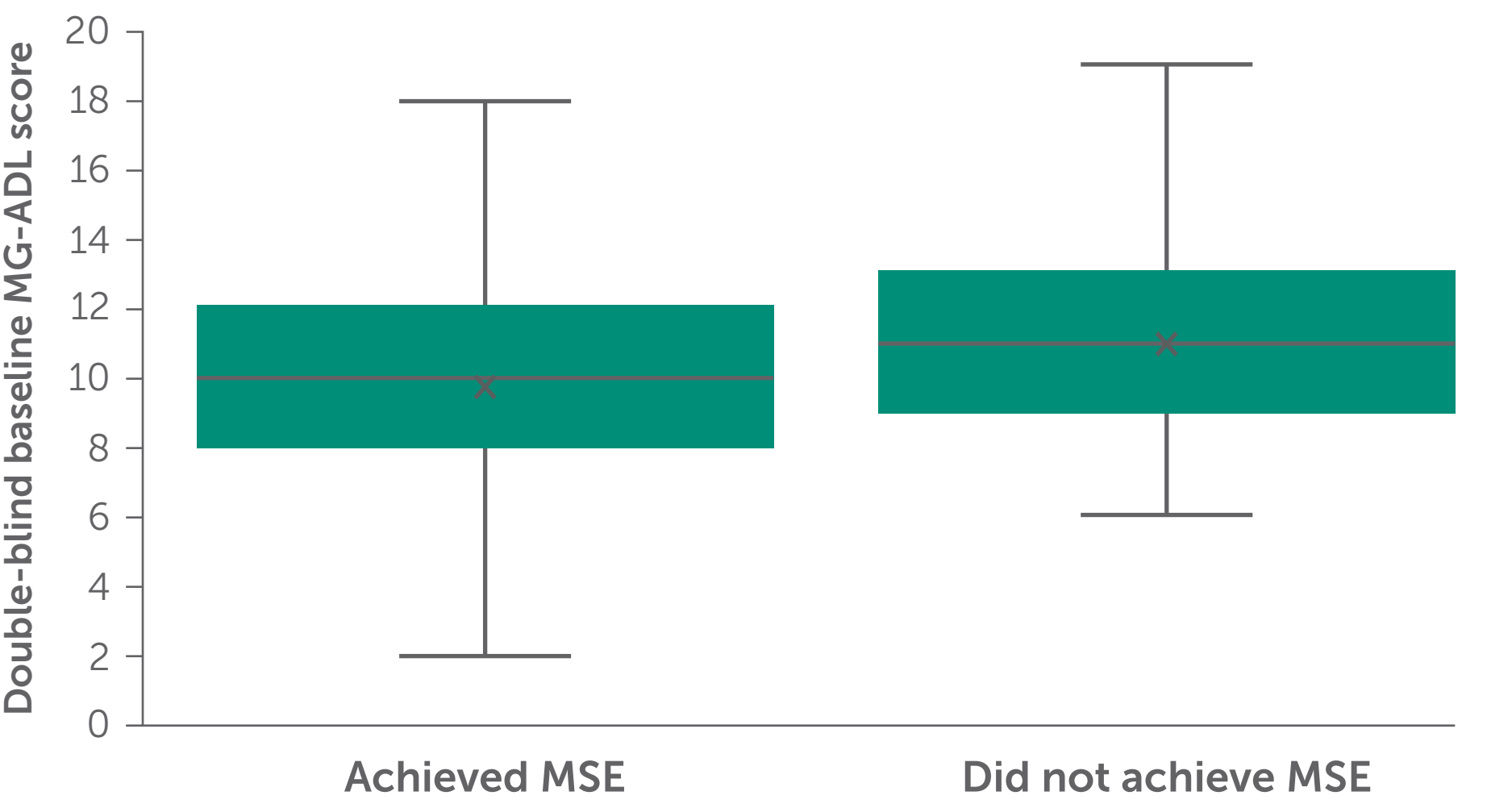
miTT population, which included all patients enrolled in RAISE-XT who received at least one dose of zilucoplan and had at least one post-dosing MG-ADL score. Time to MSE was defined as the time from the start of zilucoplan treatment (double-blind baseline for patients treated with zilucoplan in the double-blind studies, and RAISE-XT baseline for patients treated with placebo in the double-blind studies).

Table 1 Baseline demographics and disease characteristics were indicative of a broad population of patients with mild-to-severe gMG

		Zilucoplan 0.3 mg/kg pooled (N=183)
Age, years, mean (SD)		52.9 (15.0)
Sex, male, n (%)		83 (45.4)
MGFA Clinical Class, n (%)	II	54 (29.5)
	III	117 (63.9)
	IV	12 (6.6)
MG-ADL score, mean (SD)		10.3 (3.0)
QMG score, mean (SD)		19.0 (4.1)
Prior thymectomy, n (%)		88 (48.1)
Prior MG crisis, n (%)		59 (32.2)
Duration of disease from diagnosis, years, mean (SD)		9.1 (9.9)
gMG-specific therapies, n (%)	Cholinesterase inhibitors	150 (82.0)
	Corticosteroids	120 (65.6)
	Immunosuppressants	94 (51.4)

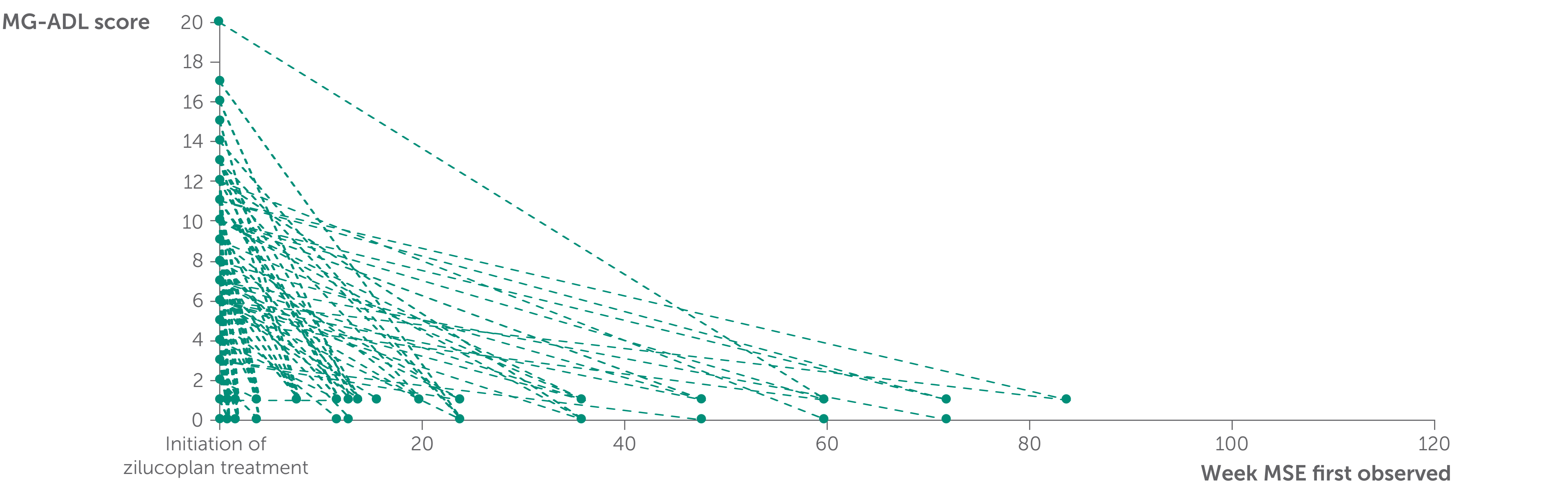
miTT population, which included all patients enrolled in RAISE-XT who received at least one dose of zilucoplan and had at least one post-dosing MG-ADL score. Data obtained from double-blind baseline.

Figure 2 MG-ADL scores at double-blind baseline were broadly similar between patients who achieved MSE and those who did not



miTT population, which included all patients enrolled in RAISE-XT who received at least one dose of zilucoplan and had at least one post-dosing MG-ADL score. The cross symbol indicates the mean. The horizontal line within the box indicates the median, and the box boundaries represent the upper and lower quartiles. The upper and lower error bars indicate the maximum and minimum, respectively.

Figure 3 The majority of patients who achieved MSE did so within 12 weeks of zilucoplan initiation, with some patients achieving MSE as early as 1 week after initiating treatment



miTT population, which included all patients enrolled in RAISE-XT who received at least one dose of zilucoplan and had at least one post-dosing MG-ADL score. In patients who received zilucoplan in the double-blind studies, zilucoplan was initiated at double-blind baseline. In patients who received placebo in the double-blind studies, zilucoplan was initiated at RAISE-XT baseline. MG-ADL score could differ between double-blind baseline and initiation of zilucoplan. The week MSE was first observed is relative to the appropriate baseline.

Abbreviations: Ab+, antibody positive; AChR, acetylcholine receptor; C5, component 5; gMG, generalized myasthenia gravis; MG, myasthenia gravis; MG-ADL, Myasthenia Gravis Activities of Daily Living; MGFA, Myasthenia Gravis Foundation of America; miTT, modified intent-to-treat; MSE, minimal symptom expression; OLE, open-label extension; QMG, Quantitative Myasthenia Gravis; SD, standard deviation; TEAE, treatment-emergent adverse event.

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