

Responder and minimal symptom expression rates with rozanolixizumab in generalised myasthenia gravis: Final pooled analysis of Phase 3 studies

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Introduction

- In the randomised, placebo-controlled, double-blind Phase 3 MycarinG study (MG0003/NCT03971422), one 6-week treatment cycle with the FcRn inhibitor rozanolixizumab significantly improved MG-specific outcomes versus placebo in patients with gMG[†]
- Following MycarinG, patients could enrol in the now completed OLE studies, MG0004 (NCT04124965) followed by MG0007 (NCT04650854), or MG0007 directly (**Figure 1**)
- This analysis aimed to assess MG-ADL, MGC and QMG responder rates, and achievement of MSE across repeated 6-week rozanolixizumab treatment cycles in patients with gMG

Methods

- MycarinG enrolled adults with MGFA Disease Class II–IVa, anti-AChR Ab+ or anti-MuSK Ab+ gMG with MG-ADL score ≥ 3 (for non-ocular symptoms) and QMG score ≥ 11 [†]
 - Patients were randomised 1:1:1 to receive rozanolixizumab 7 mg/kg or 10 mg/kg or placebo once weekly for 6 weeks[†]
- In MG0004, patients received chronic, once-weekly rozanolixizumab 7 mg/kg or 10 mg/kg for ≤ 52 weeks
- In MG0007, patients received an initial 6-week cycle (rozanolixizumab 7 mg/kg or 10 mg/kg), with subsequent cycles administered upon symptom worsening, at the investigator's discretion
- Final efficacy data were pooled across MycarinG, MG0004 (first 6 weeks) and MG0007 for patients with ≥ 2 symptom-driven cycles
- For safety analysis, final data were pooled across MycarinG and MG0007 for patients with ≥ 1 treatment cycle followed by an up to 8-week follow-up period

- Efficacy outcomes assessed in this analysis were:

- The proportion of patients achieving MG-ADL, MGC and QMG response (≥ 2.0 -point, ≥ 3.0 -point and ≥ 3.0 -point improvement from baseline, respectively, without rescue therapy) at Day 43 in each 6-week cycle
- Achievement of MSE (MG-ADL score of 0 or 1) at any visit for each 6-week cycle and observation period

- The incidence of TEAEs was also evaluated
- All data were summarised descriptively by cycle

Results

- Overall, 196 patients received ≥ 1 dose of rozanolixizumab
 - 129 patients received ≥ 2 symptom-driven cycles (efficacy pool)
 - 188 patients received ≥ 1 treatment cycle with rozanolixizumab (safety pool)
- Baseline characteristics were similar between the efficacy and safety pools, and balanced between the 7 mg/kg and 10 mg/kg groups
- For patients in the safety pool, the mean (SD) and median (range) total time in studies was 1.7 (0.9) and 2.0 (0.1–3.1) years, respectively
 - The mean (SD) annualised number of cycles and infusions were 2.9 (1.8) and 16.0 (10.6) per year, respectively
- High rates of MG-ADL, MGC and QMG response were observed at Day 43 in Cycle 1 for both rozanolixizumab dose groups and were consistently observed for up to 13 cycles (**Figures 2–4**)
- For the rozanolixizumab total group, achievement of MSE was consistent across Cycles 1 to 13 (**Figure 5**)
- In total, 83.0% (112/135) and 94.7% (126/133) of patients receiving rozanolixizumab 7 mg/kg and 10 mg/kg, respectively, experienced a TEAE (**Figure 6**); most events were mild or moderate

Summary and conclusions



This analysis pooled final data across MycarinG, MG0004 and MG0007 to assess MG-ADL, MGC and QMG responder rates and achievement of MSE during repeated 6-week rozanolixizumab treatment cycles in patients with gMG



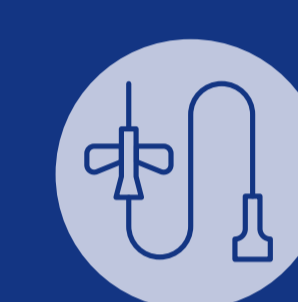
MG-ADL, MGC and QMG responder rates of $\geq 54.0\%$ were consistently observed across Cycles 1–13



The proportion of patients who achieved MSE remained consistent across cycles for rozanolixizumab total

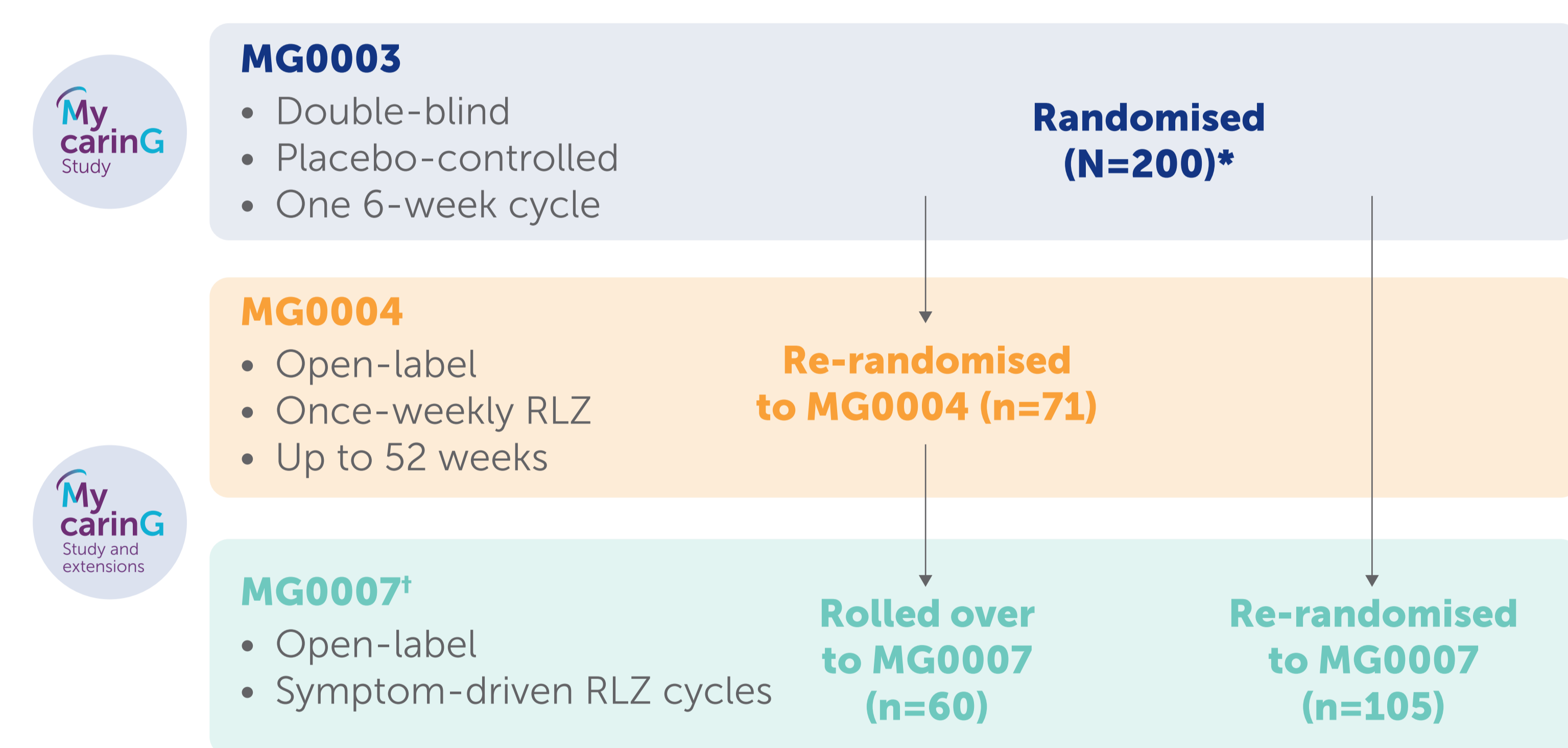


Rozanolixizumab had an acceptable safety profile and was generally well tolerated



Rozanolixizumab showed consistent and clinically meaningful improvements across multiple MG-specific outcomes with repeated cyclic treatment for up to 13 cycles

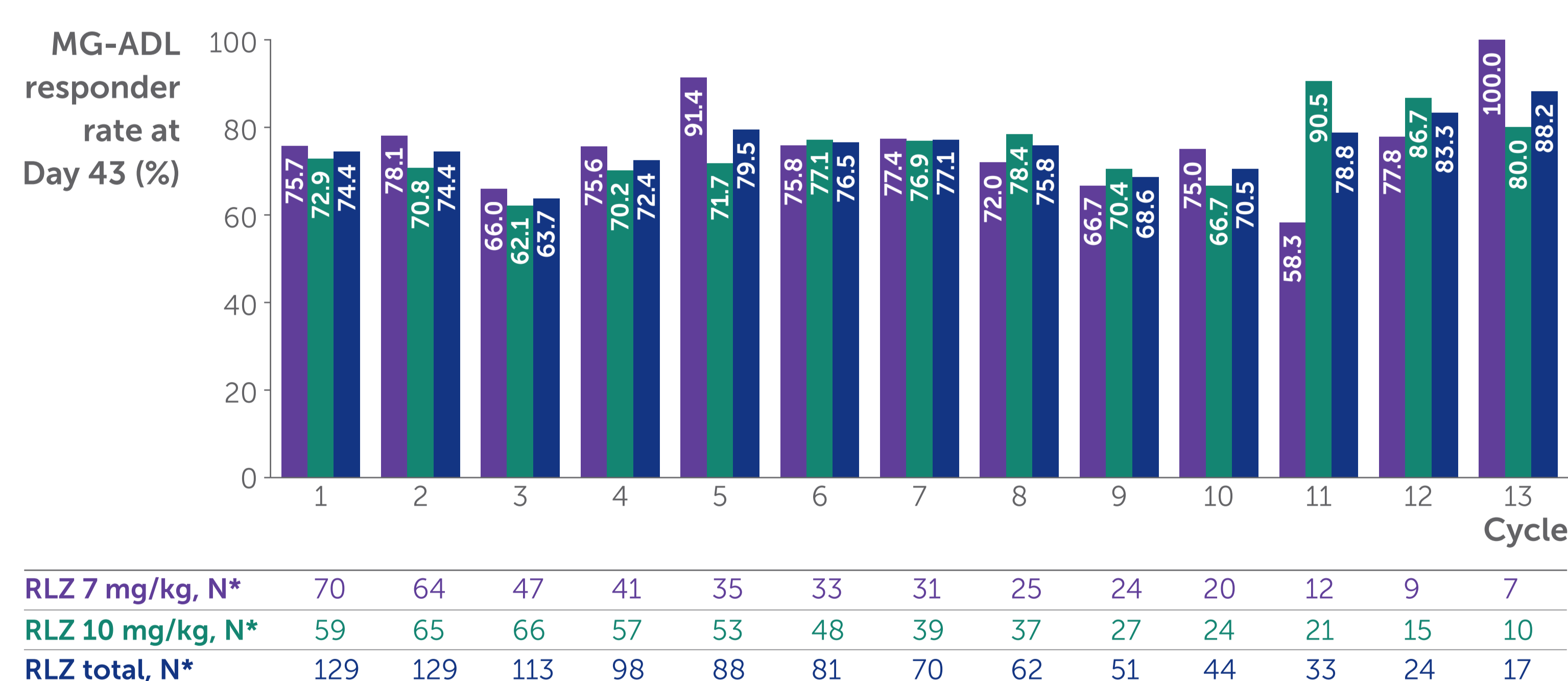
Figure 1 MycarinG and OLE studies: Design and patient flow



*Placebo (n=67), rozanolixizumab (n=133).

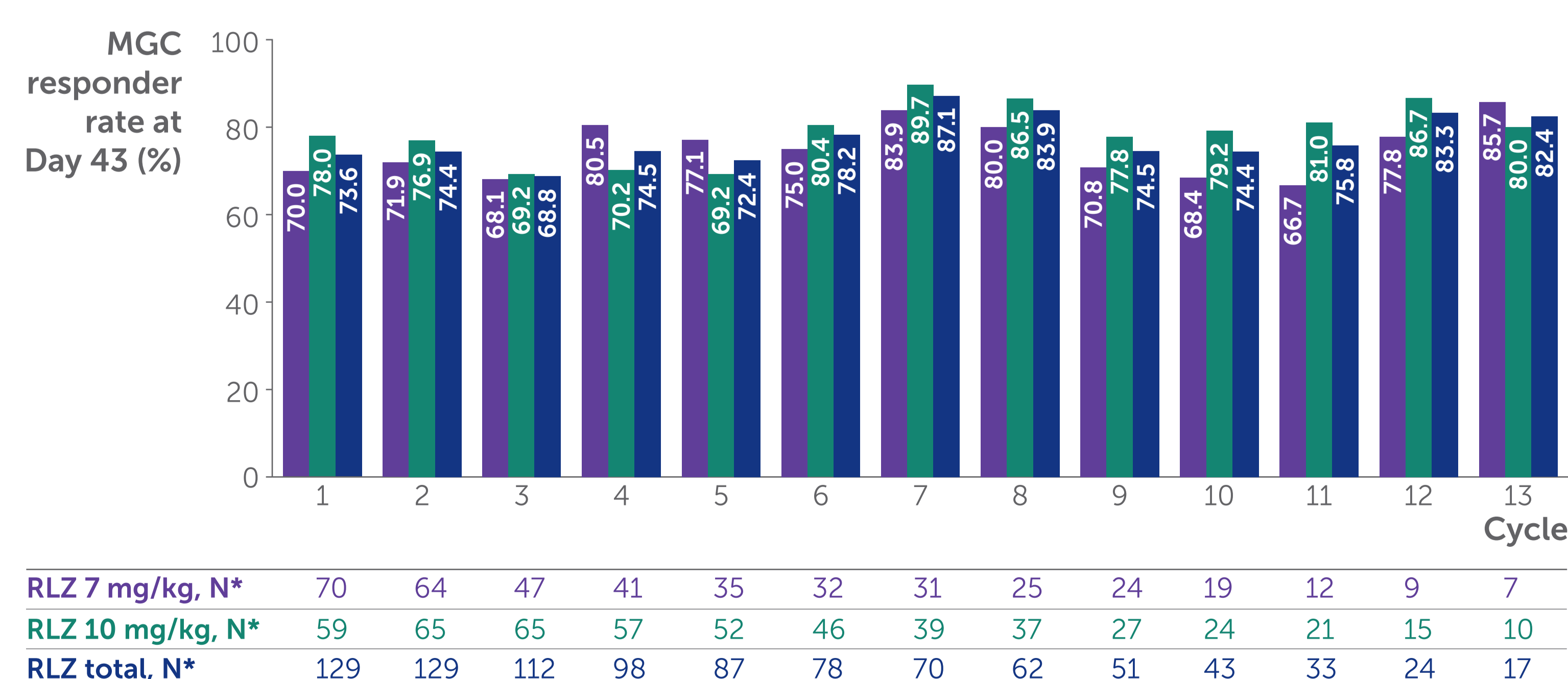
[†]After the initial cycle, dose modifications from 10 mg/kg to 7 mg/kg and vice versa were permitted at the beginning of each treatment cycle provided the benefit–risk ratio remained favourable for the patient.

Figure 2 MG-ADL responder rates were high at Day 43 in Cycle 1 and showed a consistent profile over each subsequent cycle



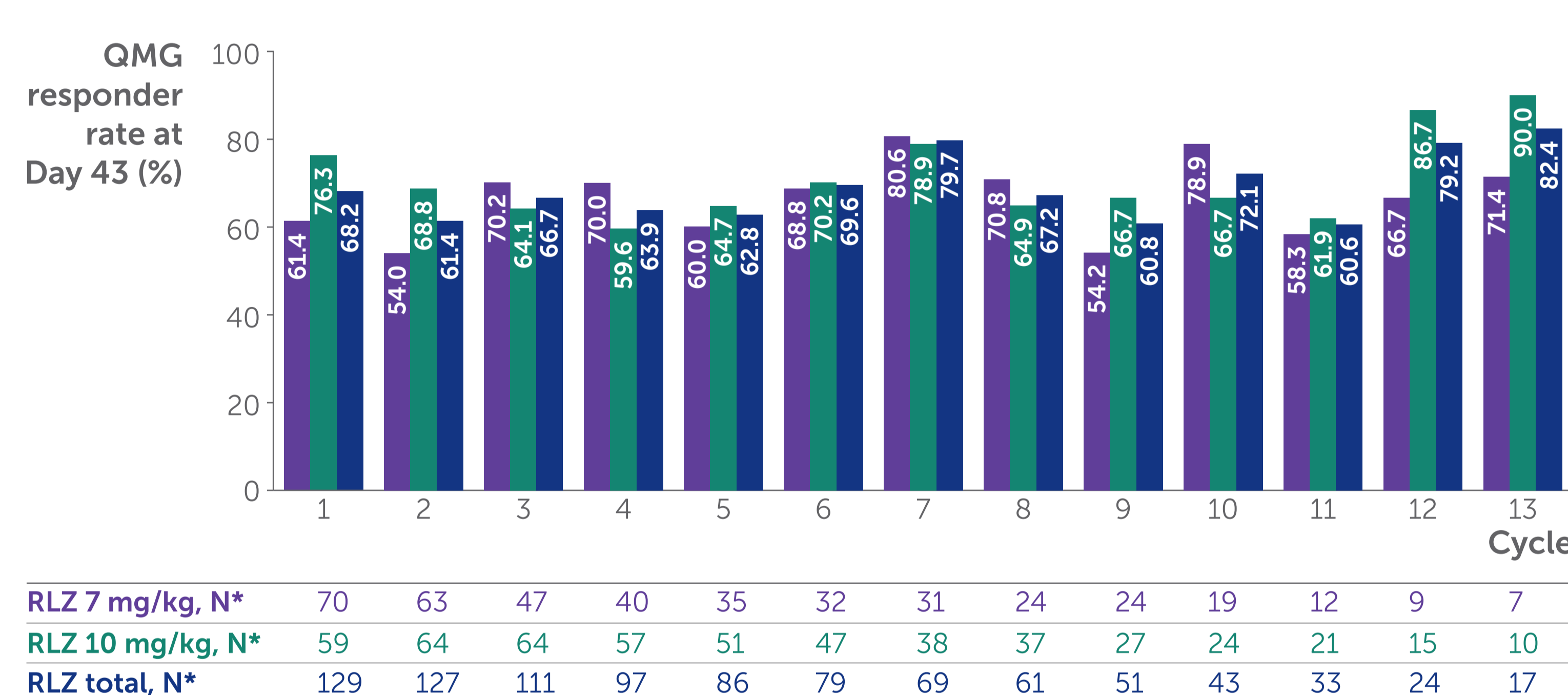
Efficacy pool. For rozanolixizumab total, MG-ADL responder rates ranged from 63.7% (72/113) to 88.2% (15/17). *N represents the number of patients who had completed an MG-ADL assessment at baseline (Day 1) and Day 43 in each treatment cycle.

Figure 3 MGC responder rates were high at Day 43 in Cycle 1 and showed a consistent profile over each subsequent cycle



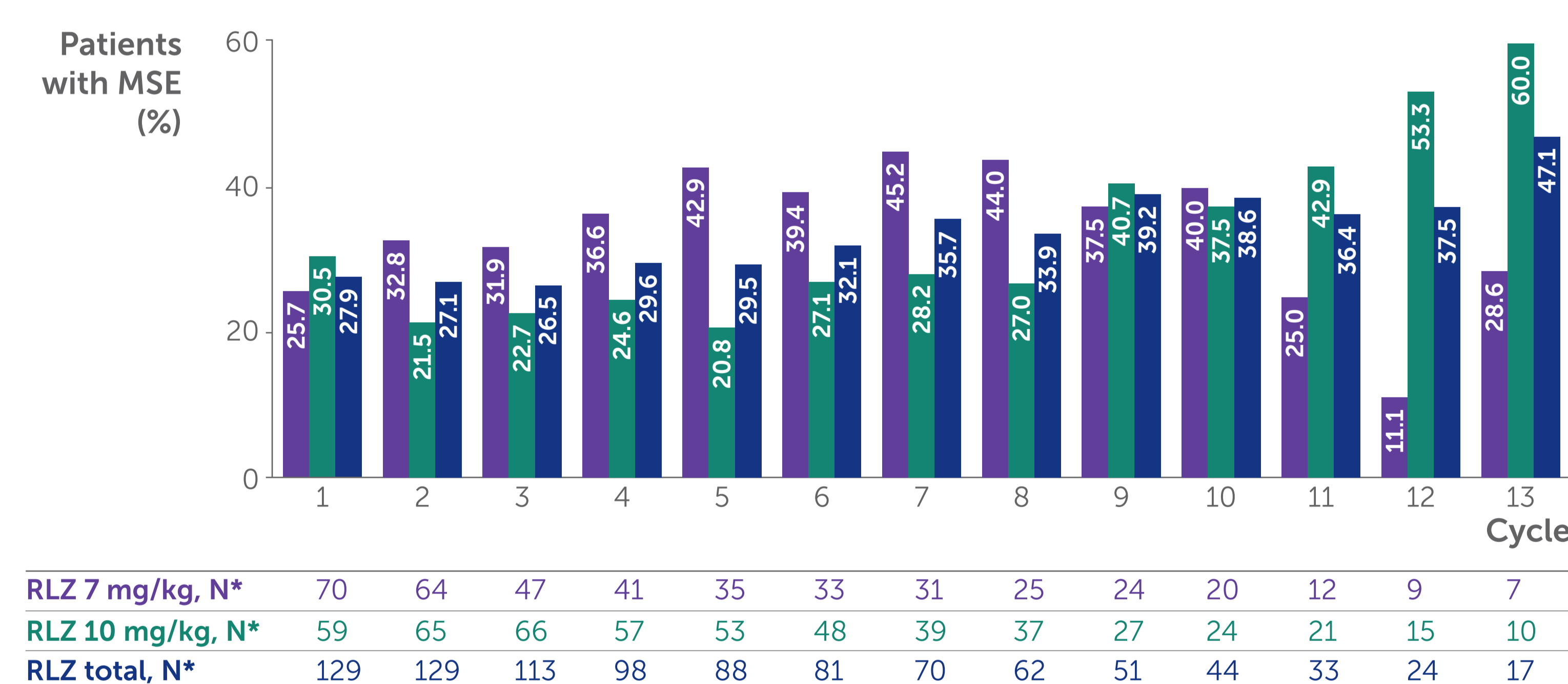
Efficacy pool. For rozanolixizumab total, MGC responder rates ranged from 68.8% (77/112) to 87.1% (61/70). *N represents the number of patients who had completed an MGC assessment at baseline (Day 1) and Day 43 in each treatment cycle.

Figure 4 QMG responder rates were high at Day 43 in Cycle 1 and showed a consistent profile over each subsequent cycle



Efficacy pool. For rozanolixizumab total, QMG responder rates ranged from 60.6% (20/33) to 82.4% (14/17). *N represents the number of patients who had completed a QMG assessment at baseline (Day 1) and Day 43 in each treatment cycle.

Figure 5 For the rozanolixizumab total group, MSE rates were consistent across Cycles 1 to 13



Efficacy pool. For rozanolixizumab total, achievement of MSE ranged from 26.5% (30/113) to 47.1% (8/17). *N represents the number of patients with MSE assessment in the efficacy pool at each treatment cycle.

Figure 6 Across all cycles, rozanolixizumab was generally well tolerated

	RLZ 7 mg/kg (N=135) % (n)	RLZ 10 mg/kg (N=133) % (n)	RLZ total (N=188) % (n)
Any TEAE	83.0 (112)	94.7 (126)	93.1 (175)
Serious TEAEs	15.6 (21)	27.1 (36)	29.3 (55)
Permanent discontinuation from study due to TEAEs	8.1 (11)	16.5 (22)	17.6 (33)
Temporary discontinuation from study drug due to TEAEs	15.6 (21)	22.6 (30)	24.5 (46)
Treatment-related TEAEs	48.9 (66)	63.2 (84)	63.8 (120)
Severe TEAEs	13.3 (18)	34.6 (46)	33.0 (62)
TEAEs leading to death	0.7 (1)	2.3 (3)	2.1 (4)

Safety pool. n is the number of patients reporting at least one TEAE within the category.

Abbreviations: Ab+, antibody positive; AChR, acetylcholine receptor; FcRn, neonatal fragment crystallisable receptor; gMG, generalised myasthenia gravis; MG, myasthenia gravis; MG-ADL, Myasthenia Gravis Activities of Daily Living; MGFA, Myasthenia Gravis Foundation of America; MGC, Myasthenia Gravis Composite; MSE, minimal symptom expression; MuSK, muscle-specific tyrosine kinase; OLE, open-label extension; QMG, Quantitative Myasthenia Gravis; RLZ, rozanolixizumab; SD, standard deviation; TEAE, treatment-emergent adverse event.

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