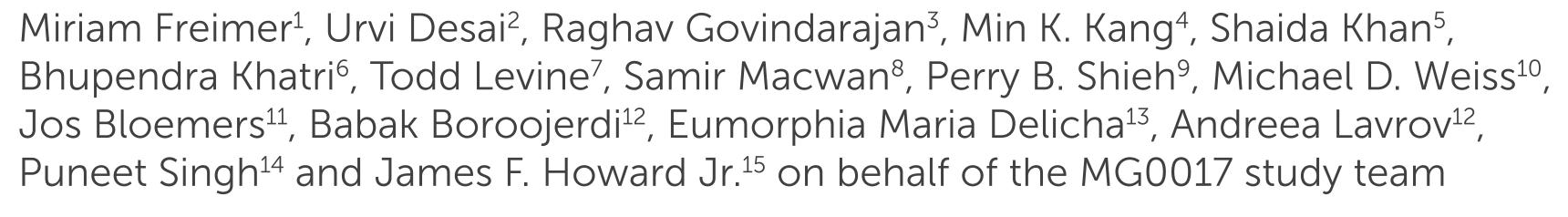
Switching to subcutaneous zilucoplan from intravenous complement component 5 inhibitors in myasthenia gravis: Patient preference and satisfaction from a Phase 3b study

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Introduction

- Antibody-based complement C5 inhibitors for the treatment of gMG are administered by IV infusion by HCPs
- There remains a need for alternative therapeutic options for patients with gMG, especially for those who find IV administration challenging, or who are in underserved or rural populations where economic and logistic access to IV infusions is prohibitive
- Zilucoplan, a 15-amino acid macrocyclic peptide complement C5 inhibitor, is self-administered by daily SC injection, which some patients may prefer to IV complement C5 inhibitors
- anti-AChR Ab+ gMG in the United States¹
 Here, we report treatment satisfaction and patients' preference in

Zilucoplan is approved for the treatment of patients with

adults with anti-AChR Ab+ gMG after switching to zilucoplan from IV complement C5 inhibitors

Methods

- MG0017 (NCT05514873) was a Phase 3b, open-label, single arm study with a 12-week main treatment period and an optional extension period of daily SC zilucoplan 0.3 mg/kg in patients who were willing to switch from an antibody-based, IV, complement C5 inhibitor (eculizumab or ravulizumab) (**Figure 1**)
- The primary safety endpoint was incidence of TEAEs
- Secondary efficacy endpoints included change from baseline in MG-ADL total score to Week 12
- Other patient-reported outcomes included treatment satisfaction (measured using the TSQM-9; scored from 0 to 100) and patient preference for IV or SC complement C5 inhibitors, assessed at Week 12 (both exploratory endpoints)
- Complement inhibition at baseline and Week 12 was assessed using a sheep red blood cell lysis assay

Results

- Patient demographics and baseline disease characteristics are presented in **Table 1**
- 26 patients enrolled in MG0017 and received zilucoplan
 16 patients switched from eculizumab and 10 switched from ravulizumab
- Patients wanted to switch for a variety of reasons, including logistical challenges, lengthy infusion times and challenges with venous access (Figure 2)
- 23 patients completed the main treatment period and three had discontinued (two due to TEAEs [Table 2], the third due to non-compliance with study protocol)
- TEAEs were mostly mild in severity (Table 2)
- In the total population, there was a nominally significant improvement in MG-ADL score (Figure 3)
- Clinically meaningful and nominally significant improvements were observed in MG-ADL scores in patients who switched from ravulizumab (Figure 3)
- At Week 12, MG symptoms were improved or unchanged in approximately 75% of patients (data not shown)²
- Over three-quarters of the study population preferred SC treatment
 Of those who preferred SC treatment, about half were from the prior eculizumab subgroup and half from the prior ravulizumab subgroup (Figure 4)
- Mean TSQM-9 Global Satisfaction, Effectiveness and Convenience subscores all showed clinically meaningful increases from baseline at Week 12, except the Effectiveness subscore for prior eculizumab subgroup (Figure 5)
- In patients with both baseline and Week 12 TSQM-9 scores available, the mean percentage increases in score from baseline in the prior eculizumab, prior ravulizumab and the total population were
- Global Satisfaction: 41.6% (n=13), 53.9% (n=10) and 47.0% (n=23)
 Effectiveness: 15.3% (n=12), 49.6% (n=10) and 30.9% (n=22)
- Convenience: 60.3% (n=13), 32.4% (n=10) and 48.2% (n=23)
- Complement inhibition increased from 93.5% at baseline to 98.5% at Week 12 with zilucoplan treatment in the total population
- The increase in complement inhibition was particularly pronounced in the subgroup of patients who switched from ravulizumab (87.3% to 98.9%)

Figure 1 Study design

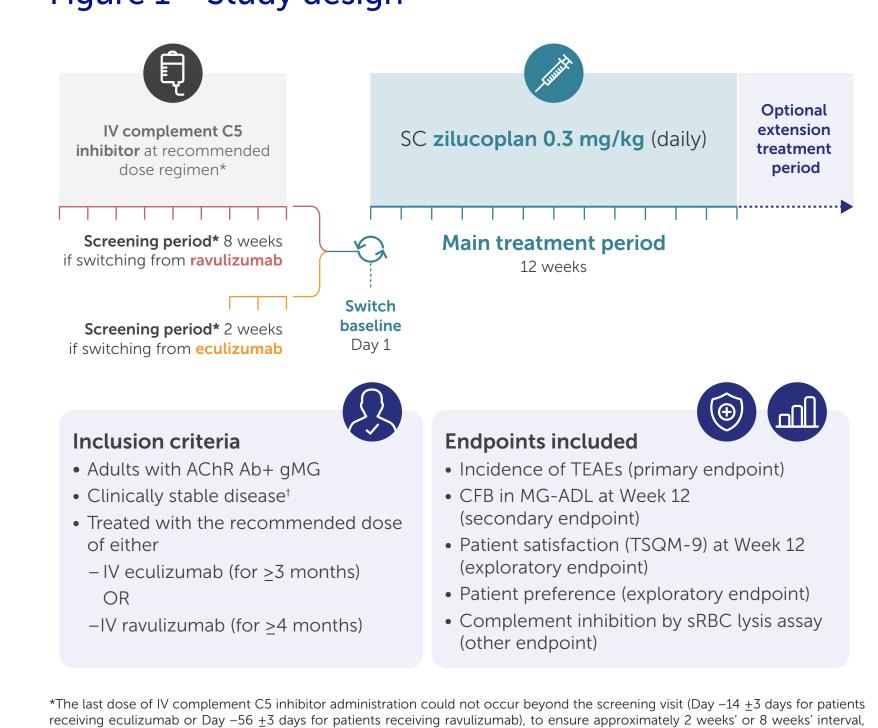


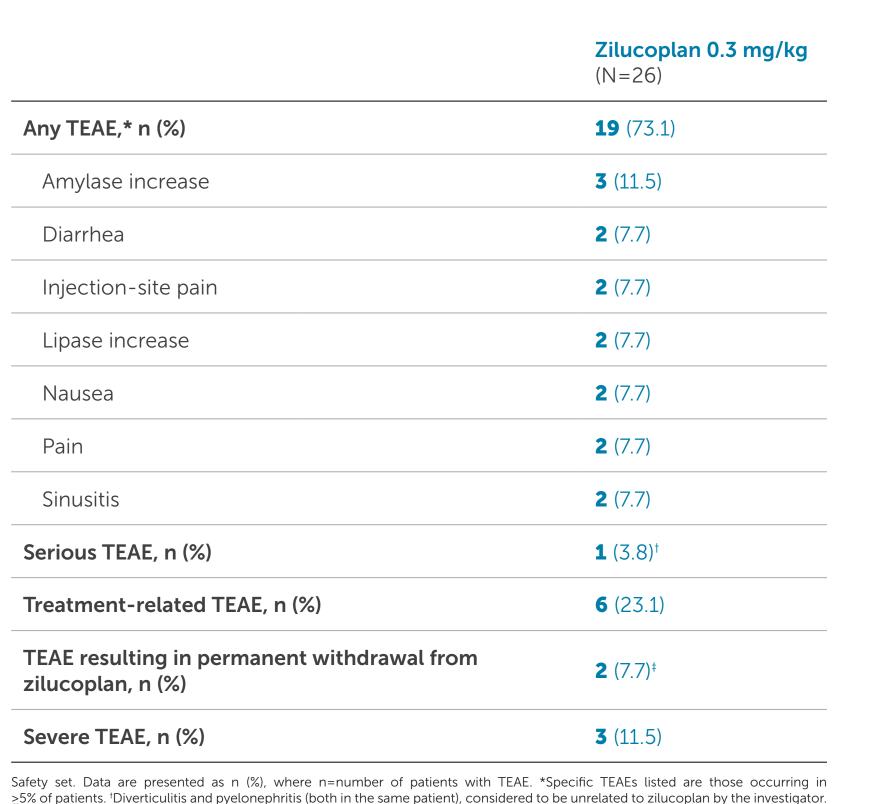
Table 1 Demographics and baseline disease

characteristics

respectively, before the first SC zilucoplan administration. †Per investigator's judgment, with ≤2-point change in MG-ADL score at

		Zilucoplan 0.3 mg/kg (N=26)
Female, n (%)		13 (50.0)
Age at initial diagnosis, years, mean (min, max)		51.7 (7, 73)
Duration of disease from diagnosis, years, mean (min, max)		8.4 (0.8, 31.0)
MG-ADL score at baseline, mean (min, max)		4.5 (0, 13)
QMG score at baseline, mean (min, max)		10.1 (2, 23)
Baseline gMG therapy, n (%)	Cholinesterase inhibitors	19 (73.1)
	Corticosteroids	12 (46.2)
	Azathioprine, mycophenolate mofetil	13 (50.0)
Prior IV complement C5 inhibitor treatment before switching to ZLP, n (%)	Eculizumab	16 (61.5)
	Ravulizumab	10 (38.5)

Table 2 Overview of TEAEs



†Injection-site pain, injection-site discoloration, pain, anxiety and fatigue (n=1) and reactivation of Epstein-Barr virus (n=1); the TEAEs of

injection-site pain and discoloration that resulted in permanent withdrawal were deemed treatment-related by the investigator.

Figure 2 Reasons patients wanted to switch from IV complement C5 inhibitors

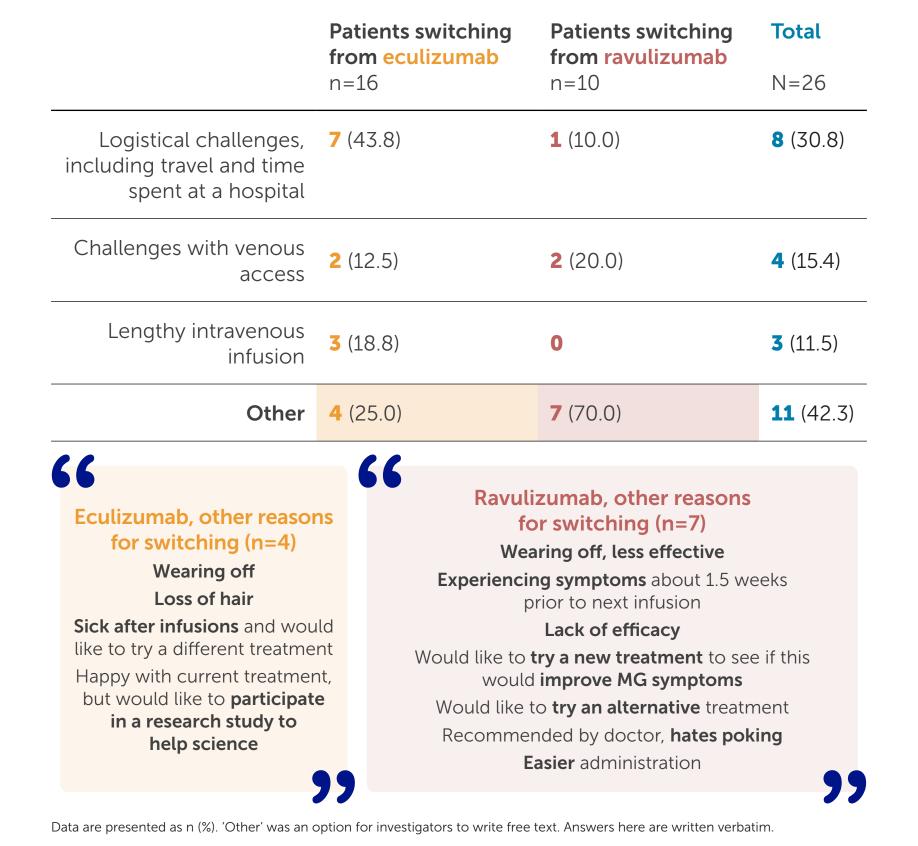
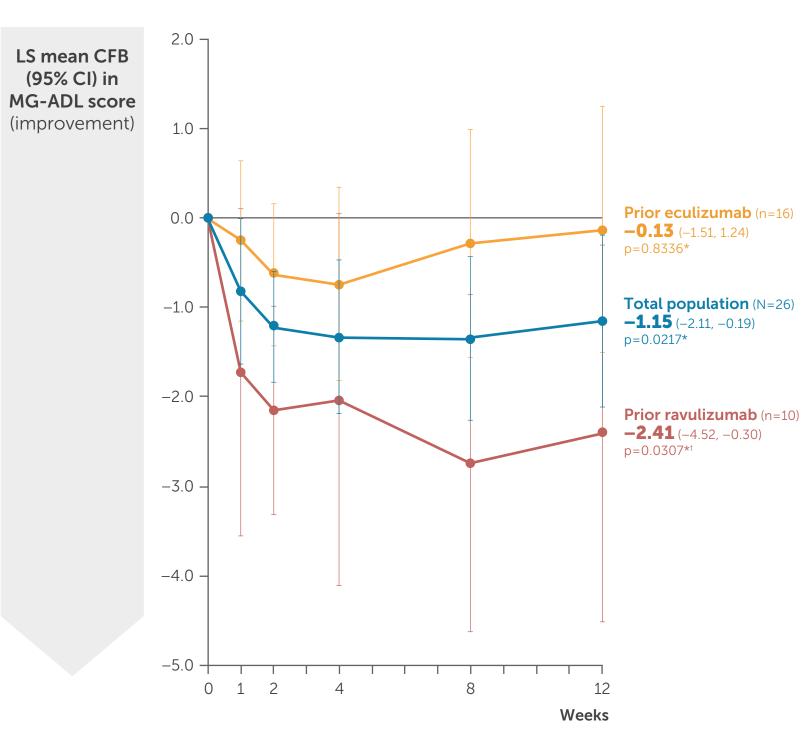
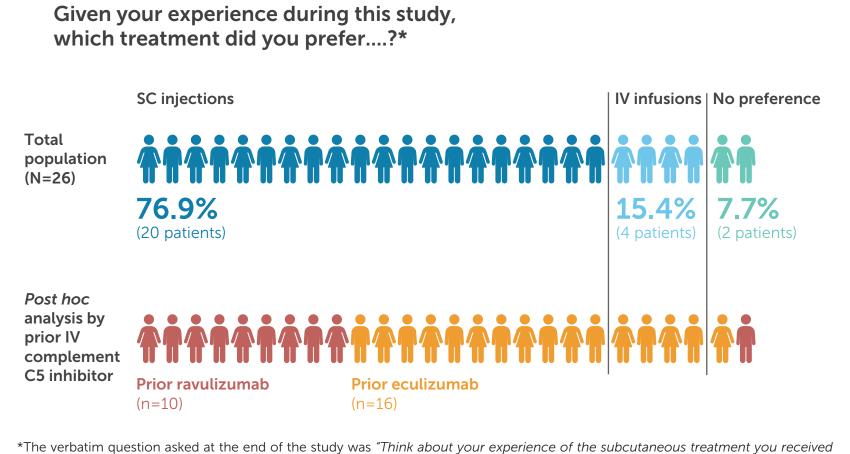


Figure 3 MG-ADL score improved to Week 12, particularly in patients switching from ravulizumab



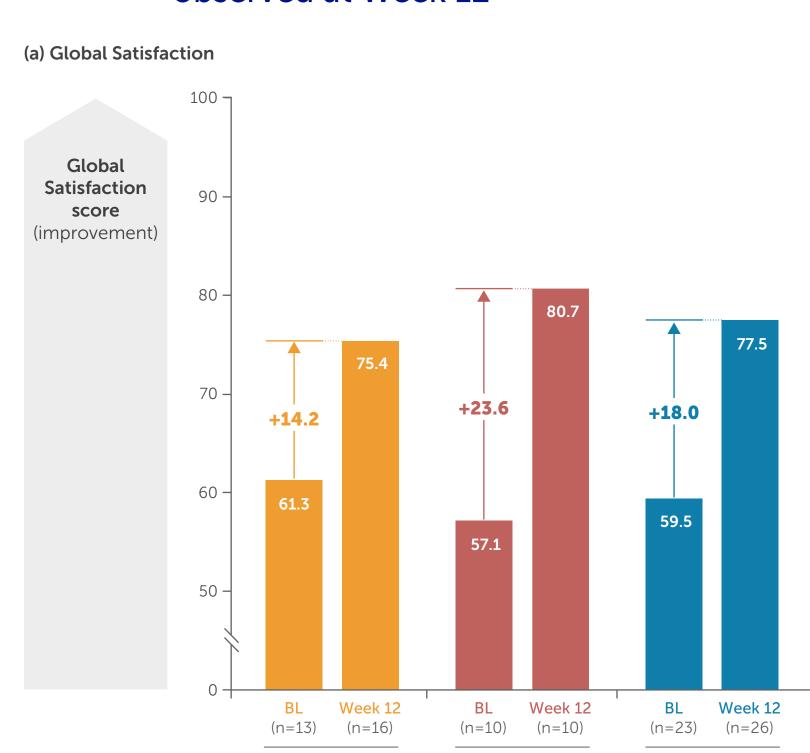
*p-values are nominal. Analysis by prior IV complement C5 inhibitor was *post hoc.* †A 2-point change in MG-ADL score is considered clinically meaningful.³

Figure 4 Zilucoplan SC injections were preferred by the majority of patients



during the clinical trial compared with your previous intravenous treatment. All things considered, which treatment did you prefer? (please select one answer): Intravenous infusion/subcutaneous injection/no preference".

Figure 5 Clinically meaningful improvements in TSQM-9 scores⁴ for a) Global Satisfaction, b) Effectiveness and c) Convenience were observed at Week 12



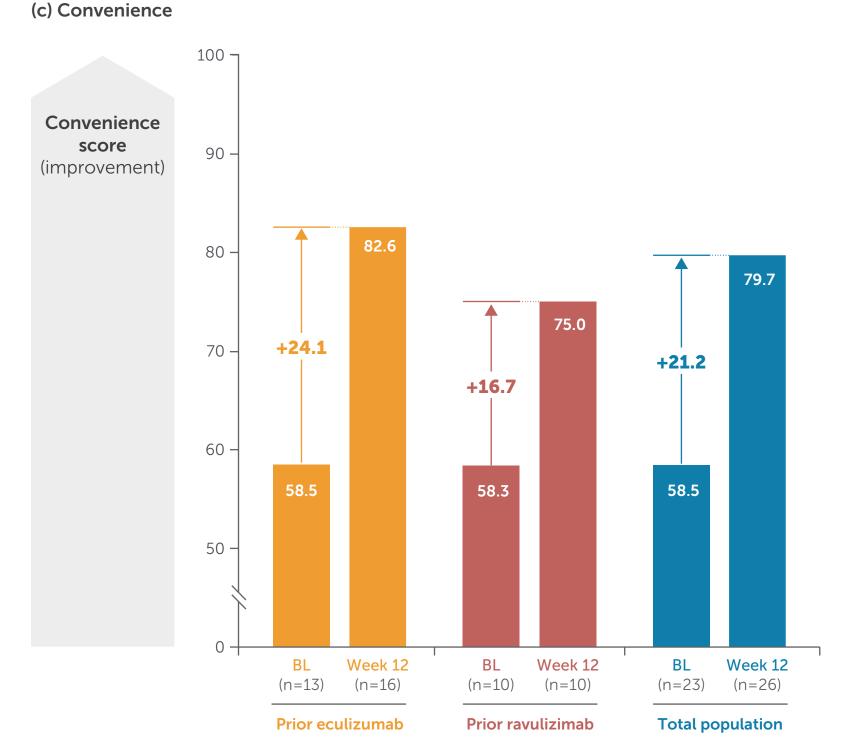
Effectiveness score (improvement)

80
70
4 +5.1

70.8

+21.1

60
60
8L Week 12 (n=12) (n=10) (n=10) (n=22) (n=26)



The Global Satisfaction, Effectiveness and Convenience domains and scoring in TSQM-9 are the same as those used in TSQM v1.4, therefore use of the published meaningful change thresholds for TSQM v1.4 is considered appropriate here.⁴ The published meaningful change thresholds for Global Satisfaction, Effectiveness and Convenience are 12.24, 9.99 and 10.81, respectively.⁴ Numerical discrepancies in this figure are due to rounding of data.

Summary and conclusions



Switching from IV complement C5 inhibitors (eculizumab or ravulizumab) to SC zilucoplan was well tolerated



Following a treatment switch from IV eculizumab or ravulizumab to zilucoplan, MG-ADL total score improved, and this was clinically meaningful for patients switching from ravulizumab

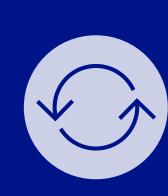


Overall treatment satisfaction increased after switching from IV complement C5 inhibitors to SC zilucoplan

- In the Effectiveness subdomain of TSQM-9, patients switching from ravulizumab showed the greatest improvement
- In the Convenience subdomain, patients switching from eculizumab showed the greatest improvement



More than three-quarters of patients preferred SC to IV treatment



For HCPs and their patients who are considering self-administered daily SC injections, switching to zilucoplan from IV complement C5 inhibitors is feasible

Abbreviations: Anti-AChR Ab+, anti-acetylcholine receptor autoantibody-positive; BL, baseline; C5, component 5; CFB, change from baseline; CI, confidence interval; gMG, generalized myasthenia gravis; HCP, healthcare professional; IV, intravenous; LS, least squares; MG, myasthenia gravis; MG-ADL, Myasthenia Gravis Activities of Daily Living; QMG, Quantitative Myasthenia Gravis; SC, subcutaneous; sRBC, sheep red blood cell; TEAE, treatment-emergent adverse event; TSQM-9, 9-item Treatment Satisfaction Questionnaire for Medication; ZLP, zilucoplan.

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