

EVIDENCE & VALUE SUMMARY: IMAAVY™ (Nipocalimab-aahu)

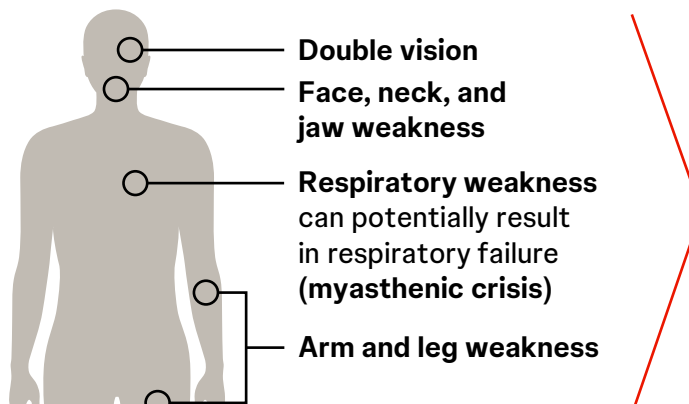
Indication¹

IMAAVY is indicated for the treatment of **gMG** in **adult and pediatric patients 12 years of age and older** who are **AChR or MuSK antibody positive**.

MG is an antibody-mediated autoimmune disorder²

IgG antibodies damage the neuromuscular junction:

- anti-AChR (70-85%)³
- anti-MuSK (1-10%)³
- anti-Lrp4 (1-5%)³





~10-20% of patients with MG do not achieve an adequate response or are intolerant to conventional treatment⁴

Uncontrolled MG can result in moderate-to-severe exacerbation⁴

15-20% of patients with gMG experience ≥ 1 myasthenic crisis⁵:

- Life-threatening events** characterized by rapidly progressive **muscle weakness and respiratory failure**
- Typically requiring several weeks of **hospitalization, intubation, and mechanical ventilation**

Among refractory MG patients in a 1-year period:

- >70%** experienced an **exacerbation**⁴
- 50%** required **hospitalization**⁴

Prevalence

~67,300 patients in the US⁶

Pediatric or juvenile MG constitutes

10-15% of US gMG cases²

In a 1M member plan:

- ~155** AChR+ or MuSK+ gMG patients⁴
- ~23** Patients treated with an FcRn inhibitor⁴

IMAAVY is an FcRn blocker designed to reduce serum IgG⁷

IMAAVY is a fully human monoclonal antibody which blocks a fundamental immune pathway by binding to FcRn, which **stops recirculation of IgG**, including pathogenic antibodies **while leaving the rest of the immune system intact**⁷⁻¹¹

High affinity

Binds at both extracellular (pH 7.6) and endosomal (pH 6.0) pH allowing occupancy of FcRn throughout the recycling pathway⁷

Aglycosylated & effectorless

Inhibits its interaction with Fcγ receptors and complement molecules, reducing activation of immune effector cells^{7,8,11}

IMAAVY in adult and pediatric patients with gMG^{12,13}

VIVACITY¹²

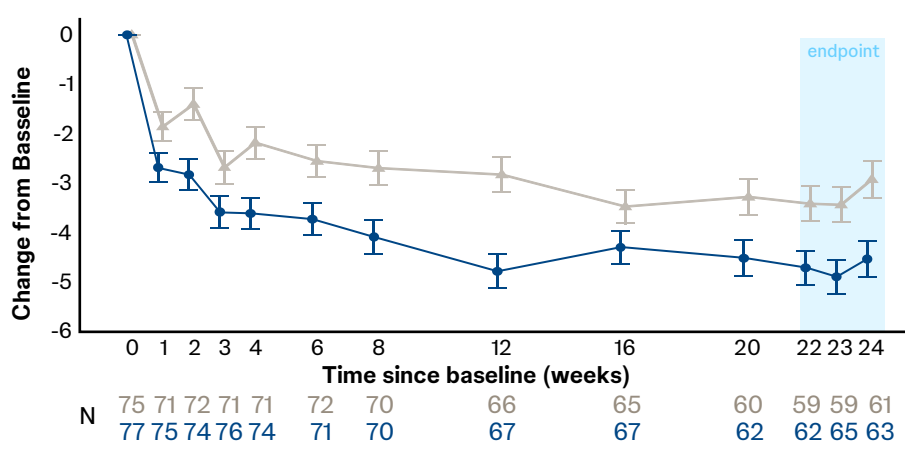
A Phase 3, multicenter, randomized, double-blind, placebo-controlled study of IMAAVY in gMG to evaluate the efficacy, safety, pharmacokinetics, and pharmacodynamics of IMAAVY in adult participants with gMG

IMAAVY + SOC
IMAAVY™ 30 mg/kg IV LD at Week 0 and 15 mg/kg IV Q2W Week 2-22

Placebo + SOC
PBO Q2W via IV infusion

All seropositive (AChR+, MuSK+, or LRP4+) patients were included in efficacy analysis

Statistically significant improvement in MG-ADL compared to placebo in antibody positive gMG patients



Change from Baseline

Time since baseline (weeks)

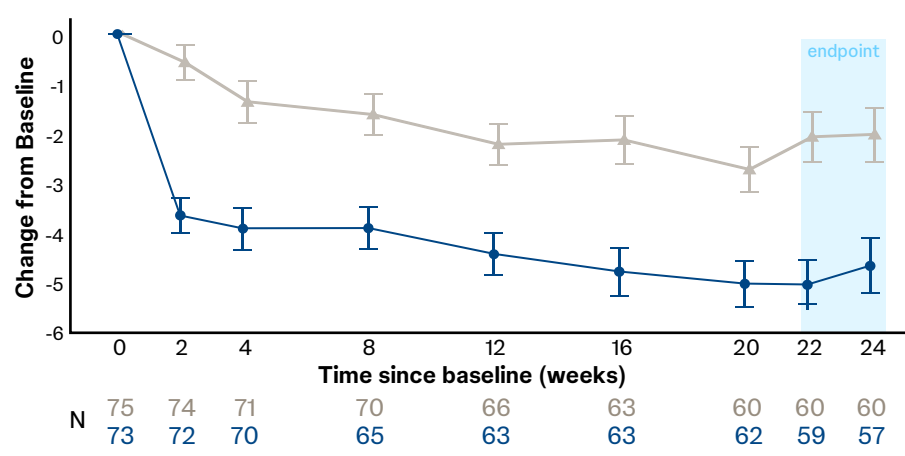
N: 75, 71, 72, 71, 71, 72, 70, 66, 65, 60, 59, 59, 61

IMAAVY + SOC (N=77)

Placebo + SOC (N=76)

Average change (SE) from baseline at Weeks 22-24:	Difference of LS means:
IMAAVY + SOC: -4.7 (0.329)	-1.45 (95% CI -2.38 to -0.52), p=0.0024
Placebo + SOC: -3.25 (0.335)	

Statistically significant improvement in QMG compared to placebo in antibody positive gMG patients



Change from Baseline

Time since baseline (weeks)

N: 75, 74, 71, 70, 66, 63, 60, 60, 60

IMAAVY + SOC (N=77)

Placebo + SOC (N=76)

Average change (SE) from baseline at Weeks 22-24:	Difference of LS means:
IMAAVY + SOC: -4.86 (0.504)	-2.81 (95% CI -4.22 to -1.41), p<0.0012
Placebo + SOC: -2.05 (0.499)	

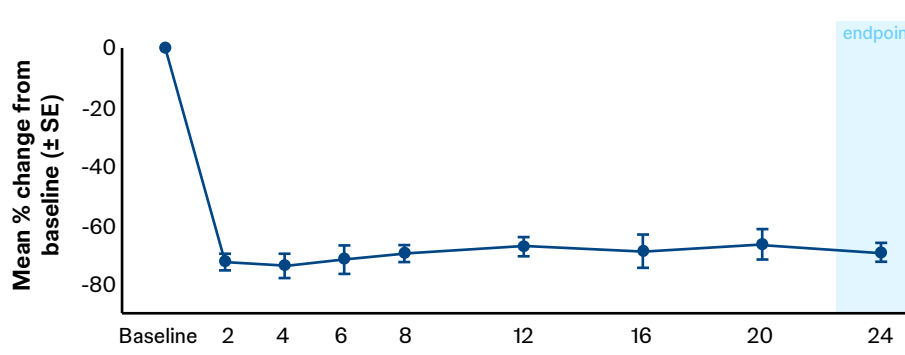
Overall adverse events	IMAAVY + SOC (n=98)	Placebo + SOC (n=98)	IMAAVY + SOC (n=98)	Placebo + SOC (n=98)
AE	82 (84%)	82 (84%)	Most common adverse reactions^{1b}	
Related AE	28 (29%)	28 (29%)	Infection	
Serious AE	9 (9%)	14 (14%)	Respiratory tract infection ^c	18
Related serious AE	1 (1%)	1 (1%)	Urinary tract infection ^d	6
AE leading to discontinuation	5 (5%)	7 (7%)	Herpes zoster and Herpes simplex	6
AE leading to death	1 (1.0%)	2 (2.0%)	Oral infection ^e	5
AEs of special interest			Peripheral edema	12
Any infection	42 (43%)	42 (43%)	Muscle spasm	12
Severe infection ^a	3 (3%)	4 (4%)		
Infusion-related reactions	10 (10%)	11 (11%)		

VIBRANCE¹³

Phase 3, multicenter, randomized, double-blind, placebo-controlled study of IMAAVY in gMG to evaluate the efficacy, safety, pharmacokinetics, and pharmacodynamics of IMAAVY in adolescent participants with AChR+ or MuSK+ gMG

All → **IMAAVY + SOC**
IMAAVY 30 mg/kg IV LD at Week 0 and 15 mg/kg IV Q2W Week 2-22

Primary Endpoint: Total Serum IgG (g/L)



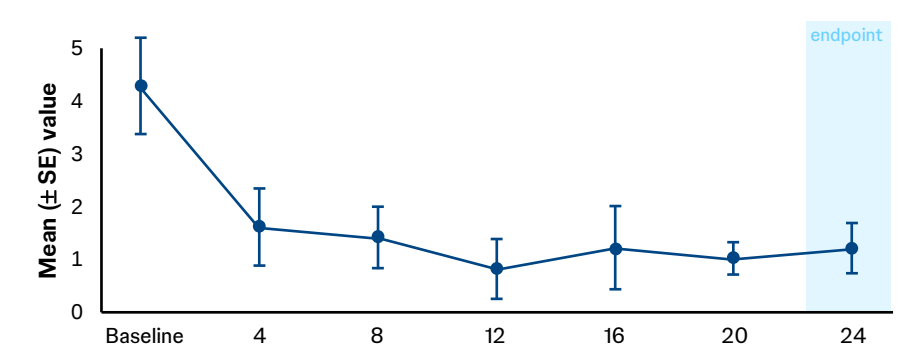
Mean % change from baseline (± SE)

Time point (weeks)

N: 5, 5, 5, 5, 5, 5, 5, 5, 5

Mean (SD) reduction in total serum	Median pre-dose total serum IgG reduction
Baseline to Week 24: -68.98% (7.561) 95% CI of (-78.4; -59.6)	Baseline to week 2: -72.00% Baseline to week 24: -69.87%

Secondary Endpoint: Mean MG-ADL total score over time



Mean (± SE) value

Time point (weeks)

N: 7, 5, 5, 5, 5, 5, 5

Mean MG-ADL score was	Improved by	4/5 ^f (80%) participants showed minimal symptom expression (MG-ADL=0/1) at Week 24
4.29 (SE, 0.918) at baseline	-2.40 (SE, 0.187) at Week 24	

Overall adverse events (n=7)	IMAAVY + SOC
Participants with ≥ 1 AEs	71.4% (n=5)
Related AEs	28.6% (n=2)
Participants with AEs leading to death	0.0% (n=0)
Participants with SAEs	0.0% (n=0)
AEs leading to temporary discontinuation of study treatment	0.0% (n=0)
AEs leading to permanent discontinuation of study treatment	0.0% (n=0)
AEs leading to termination of study participation	0.0% (n=0)
COVID-19 associated AEs	14.3% (n=1)
COVID-19 associated SAEs	0.0% (n=0)

^afor infection requiring invasive treatment ^b $\geq 10\%$ with IMAAVY ^cCOVID-19 (and other related terms), pneumonia, bronchitis, pneumonia bacteria ^dother related terms ^eglossitis, oral candidiasis, pericoronitis, pulpitis dental, tooth abscess, tooth infection ^f5 of 7 patients completed 24 weeks of active treatment phase at data cutoff.

AChR, acetylcholine receptors; AE, adverse event; CI, confidence interval; Fc, fragment crystallizable region; FcRn, neonatal Fc receptor; gMG, generalized myasthenia gravis; IgG, immunoglobulin G; IV, intravenous; LD, loading dose; Lrp4, lipoprotein receptor-related protein 4; LS, least squares; MG, myasthenia gravis; MG-ADL, Myasthenia Gravis Activities of Daily Living; MuSK, muscle-specific kinase; Q2W, every 2 weeks; QMG, Quantitative Myasthenia Gravis; R, randomization; SAE, serious adverse event; SD, standard deviation; SE, standard error; SOC, standard of care; Wk, Week.

1. IMAAVY™ (nipocalimab-aahu) [Prescribing Information], Horsham, PA: Janssen Biotech, Inc. 2. Dresser L, et al. J Clin Med. 2021 21;10(11):2235. 3. Li Y, et al. Ann Transl Med. 2023. 11(7):290. 4. Schneider-Gold C, et al. Ther Adv Neurol Disord. 2019 1;12:1756286419832242. 5. Stetefeld, H, et al. Neurol. Res. Pract. 2019;1(19). 6. IPD Analytics. Budget Impact FcRn Antagonists for Generalized Myasthenia Gravis. August 2023. Accessed November 1, 2024. <https://www.ipdanalytics.com> 7. Ling LE, et al. Clin Pharmacol Ther. 2019;105:1031-1039; 8. Roy S, et al. Am J Obstet Gynecol. 2019;220:498.e1-498.e; 9. Patel D, et al. J Allergy Clin Immunol. 2020;3(146):467-478; 10. Blumberg LJ, et al. Sci Adv. 2019;5:eaax9586.c. 11. Peter HH, et al. J Allergy Clin Immunol. 2020;146(3): 479-491. 12. Antozzi, C. et al. Lancet Neurol 2025; 24: 105–16. 13. Strober, J. et al., Poster presented at AANEM Annual Meeting, Savannah, Georgia, October 15-18, 2024.

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