




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

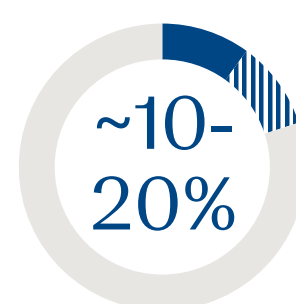
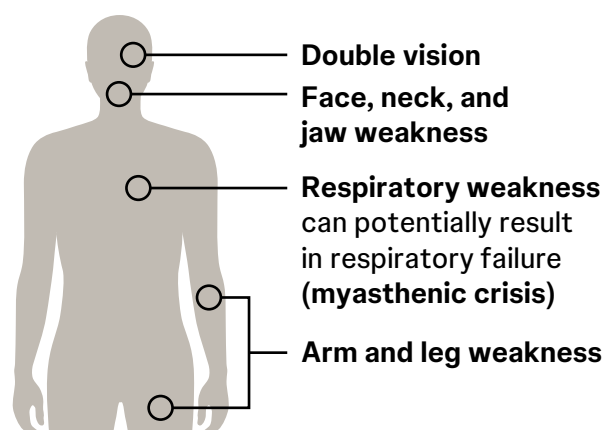
## Indication<sup>1</sup>

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 disorder<sup>2</sup>

**IgG antibodies damage the neuromuscular junction:**



-  anti-AChR (70-85%)<sup>3</sup>
-  anti-MuSK (1-10%)<sup>3</sup>
-  anti-Lrp4 (1-5%)<sup>3</sup>



**~10-20%** of patients with MG are considered **refractory** (do not achieve an adequate response, intolerant to conventional treatment, or require chronic IVIg or PLEX treatment)<sup>4</sup>

## Uncontrolled MG can result in moderate-to-severe exacerbation<sup>4</sup>

**15-20%** of patients with gMG experience  $\geq 1$  myasthenic crisis in the first 2-3 years of disease course<sup>5</sup>:

-  **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<sup>4</sup>      **50%** required hospitalization<sup>4</sup>

**Prevalence**  
**~67,300**  
patients in the US<sup>6</sup>

**Pediatric or juvenile MG constitutes**  
**10-15%**  
of US gMG cases<sup>2</sup>

**In a 1M member plan:**  
**~287** AChR+ or MuSK+ gMG patients<sup>4</sup>      **~32** Patients treated with an FcRn inhibitor<sup>4</sup>

## IMAAVY is an FcRn blocker designed to reduce serum IgG<sup>7</sup>

 IMAAVY is a fully human monoclonal antibody which binds to and blocks the FcRn, resulting in **reduction of IgG recirculation**, including pathogenic antibodies **while leaving the rest of the immune system intact**<sup>7-11</sup>

### High affinity

Binds at both extracellular (pH 7.6) and endosomal (pH 6.0) pH allowing occupancy of FcRn throughout the recycling pathway<sup>7</sup>

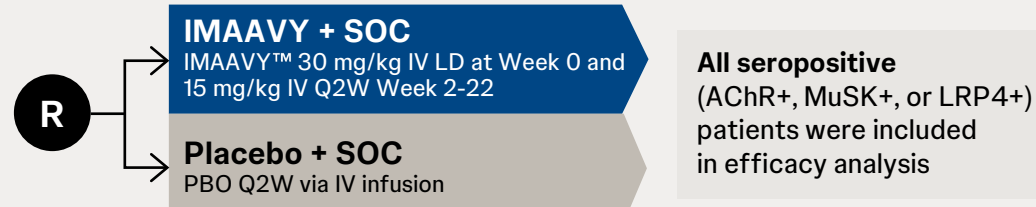
### Aglycosylated & effectorless

Inhibits interaction with Fc $\gamma$  receptors and complement molecules, reducing activation of immune effector cells<sup>7,8,11</sup>

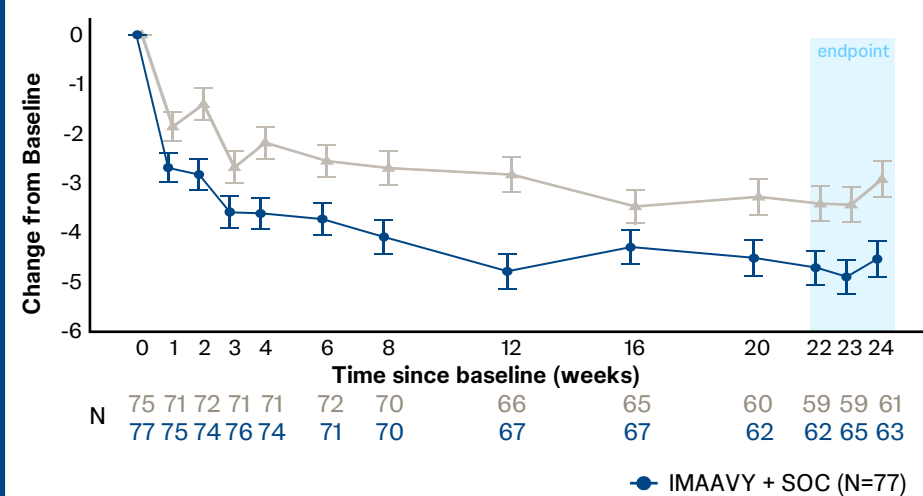
## IMAAVY in adult and pediatric patients with gMG<sup>12,13</sup>

### VIVACITY<sup>12</sup>

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

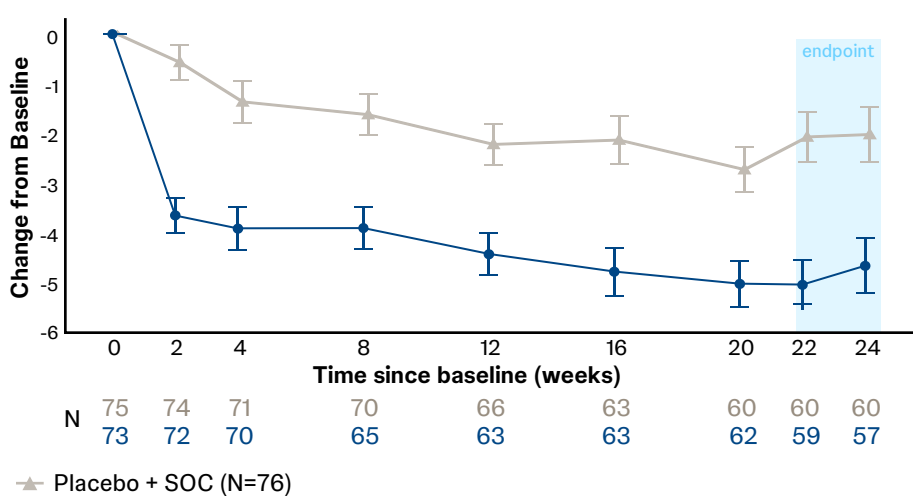


### Statistically significant improvement in MG-ADL compared to placebo in antibody positive gMG patients



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



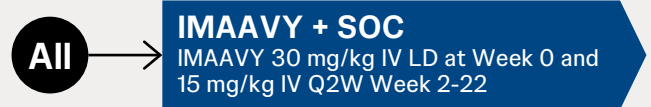
Average change (SE) from baseline at Weeks 22-24:	Difference of LS means:
IMAAVY + SOC: -4.86 (0.504)	-2.81 (95% CI -4.22 to -1.41), p<0.0012
Placebo + SOC: -2.05 (0.499)	

Overall adverse events	IMAAVY + SOC (n=98)	Placebo + SOC (n=98)
<b>AE</b>	82 (84%)	82 (84%)
Related AE	28 (29%)	28 (29%)
<b>Serious AE</b>	9 (9%)	14 (14%)
Related serious AE	1 (1%)	1 (1%)
<b>AE leading to discontinuation</b>	5 (5%)	7 (7%)
<b>AE leading to death</b>	1 (1.0%)	2 (2.0%) <sup>a</sup>
<b>AEs of special interest</b>		
Any infection	42 (43%)	42 (43%)
Severe infection <sup>b</sup>	3 (3%)	4 (4%)
Infusion-related reactions	10 (10%)	11 (11%)

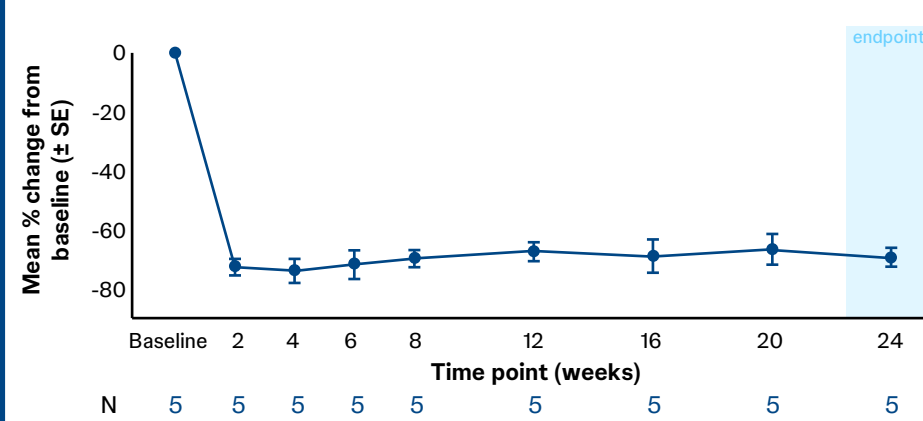
Most common adverse reactions <sup>1c</sup>	IMAAVY + SOC (n=98)	Placebo + SOC (n=98)
<b>Infection</b>		
Respiratory tract infection <sup>d</sup>	18	15
Urinary tract infection <sup>e</sup>	6	3
Herpes zoster and Herpes simplex	6	2
Oral infection <sup>f</sup>	5	3
Peripheral edema	12	2
Muscle spasm	12	3

### VIBRANCE<sup>13</sup>

A Phase 2/3, open-label, uncontrolled, multicenter study to evaluate the pharmacokinetics, pharmacodynamics, safety, and activity of IMAAVY in pediatric participants (age 2 to <18) with gMG. Data below reflects the cohort aged 12 to <18 years.

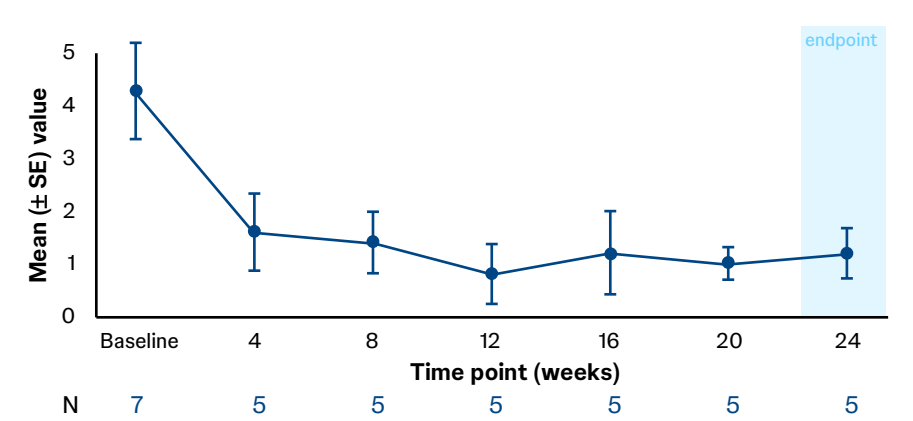


### Primary Endpoint: Total Serum IgG (g/L)



Mean (SD) reduction in total serum IgG	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 MG-ADL score was	Improved by	4/5 <sup>g</sup> (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)

Participants with $\geq 1$ AEs	IMAAVY + SOC
71.4% (n=5)	
Related AEs	28.6% (n=2)
<b>Participants with AEs leading to death</b>	0.0% (n=0)
<b>Participants with SAEs</b>	0.0% (n=0)
<b>AEs leading to temporary discontinuation of study treatment</b>	0.0% (n=0)
<b>AEs leading to permanent discontinuation of study treatment</b>	0.0% (n=0)
<b>AEs leading to termination of study participation</b>	0.0% (n=0)
<b>COVID-19 associated AEs</b>	14.3% (n=1)
<b>COVID-19 associated SAEs</b>	0.0% (n=0)

<sup>a</sup>none of the deaths were considered to be related to study treatment by the investigator. <sup>b</sup>or infection requiring invasive treatment <sup>c</sup> $\geq 10\%$  with IMAAVY <sup>d</sup>COVID-19 (and other related terms), pneumonia, bronchitis, pneumonia bacteria <sup>e</sup>other related terms glossitis, oral candidiasis, pericoronitis, pulpitis dental, tooth abscess, tooth infection <sup>f</sup>5 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 of care; Wk, Week.

1. IMAAVY™ (nipocalimab-aahu) [Prescribing Information], Horsham, PA: Janssen Biotech, Inc. 2. Dressler 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. Clayton B, et al. Muscle Nerve. 2023;68(1):8-19. 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 Neural 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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