

Long-term Safety and Efficacy of Nipocalimab: Approximately 2 Years Follow-Up Results From the Open-Label Extension Phase of Vivacity-MG3 Study

Carlo Antozzi,¹ Tuan Vu,² Sindhu Ramchandren,³ Richard J. Nowak,⁴ Constantine Farmakidis,⁵ Vera Brill,⁶ Jan De Bleecker,⁷ Huan Yang,⁸ Eduard Minks,⁹ Jin-Sung Park,¹⁰ Mariusz Grudniak,¹¹ Marek Smilowski,¹² Teresa Sevilla,¹³ Sarah Hoffmann,¹⁴ Kumaraswamy Sivakumar,¹⁵ Panna Sanga,³ Ibrahim Turkoz,³ Yaowei Zhu,³ Marie Fitzgibbon,¹⁶ Michel Burcklen¹⁷

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[†]Affiliation at the time of the study

Presented by Dr. Constantine Farmakidis at the American Academy of Neurology (AAN) Annual Meeting; April 18-22, 2026; Chicago, IL, USA

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KEY TAKEAWAY

 Nipocalimab demonstrated clinically meaningful and sustained disease control over 120 weeks in a broad population of autoantibody-positive patients with gMG, while maintaining an acceptable safety profile

gMG, generalized myasthenia gravis.

Autoantibody: MG



Presented by Dr. Constantine Farmakidis at the American Academy of Neurology (AAN) Annual Meeting; April 18-22, 2026; Chicago, IL, USA

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INTRODUCTION

- Nipocalimab is a fully human monoclonal antibody that binds to the neonatal Fc receptor (FcRn) with high affinity and specificity, reducing circulating levels of IgG, including pathogenic IgG-based autoantibodies
- Nipocalimab, added to standard of care, is the **first approved FcRn blocker** for the treatment of gMG in **adult and adolescent** (≥ 12 years of age) patients who are **anti-AChR or anti-MuSK antibody positive**¹⁻²
- In the Vivacity-MG3, double-blind, placebo-controlled, phase 3 study, nipocalimab treatment demonstrated symptom improvement sustained over 24 weeks³ and up to a further 60 weeks in the open label extension (OLE)⁴
- Results with additional **follow-up through Week 96 of OLE** of nipocalimab treatment (or week 120 overall), with a data cutoff at August 24, 2024, are presented

OBJECTIVE

- To assess the long-term safety and efficacy of nipocalimab in patients with gMG from the ongoing Vivacity-MG3 (NCT04951622) OLE phase through Week 96 (120 weeks overall)

1. IMAAVY™ (nipocalimab-aahu) injection for intravenous use [Package Insert] Horsham, PA; Janssen Pharmaceutical Companies, 2025. 2. European Medicines Agency. Imaavy™. European Medicines Agency; 2025 Sep 22. <https://www.ema.europa.eu/en/medicines/human/EPAR/imaavy>. 3. Antozzi C, et al. *Lancet Neurol*. 2025;24(2):105–116. 4. Antozzi C, et al. *Neurol*. 2025;104(7) Suppl_1:3608. AChR, Acetyl choline receptor; gMG, generalized myasthenia gravis; MuSK, muscle-specific kinase; OLE, open-label extension.

Autoantibody: MG



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METHODS

Population

- In Vivacity-MG3, adult patients with gMG (MGFA Class II-IV), inadequately controlled (MG-ADL ≥ 6) on standard-of-care (SOC) therapy, were randomized 1:1 to nipocalimab+SOC or placebo+SOC in the 24-week double-blind phase^{1,a}
- Participants could continue to receive stable SOC treatment during the study^b
- Participants who completed the double-blind phase were eligible to enter the OLE phase with nipocalimab + SOC treatment

Assessments

- Efficacy and safety results are presented for seropositive (anti-AChR positive, anti-MuSK positive, and/or anti-LRP4 positive) patients who received ≥ 1 dose of study treatment

1. Antozzi C, et al. *Lancet Neurol.* 2025; 24:105-116. ^aRandomization was stratified by autoantibody status (anti-AChR+ and/or anti-MuSK+, anti-AChR negative, and anti-MuSK negative), Day 1 MG-ADL total score ($\leq 9 > 9$), and region (East Asia, US, rest of world); ^bSOC includes acetylcholinesterase inhibitor, glucocorticosteroid, and/or immunosuppressant. AChR, acetylcholine receptor; gMG, generalized myasthenia gravis; LRP4, low-density lipoprotein receptor-related protein 4; MGFA, Myasthenia Gravis Foundation of America; MG-ADL, Myasthenia Gravis-Activities of Daily Living; MuSK, Muscle-specific tyrosine kinase; OLE, open-label extension; SOC=standard-of-care.

Autoantibody: MG



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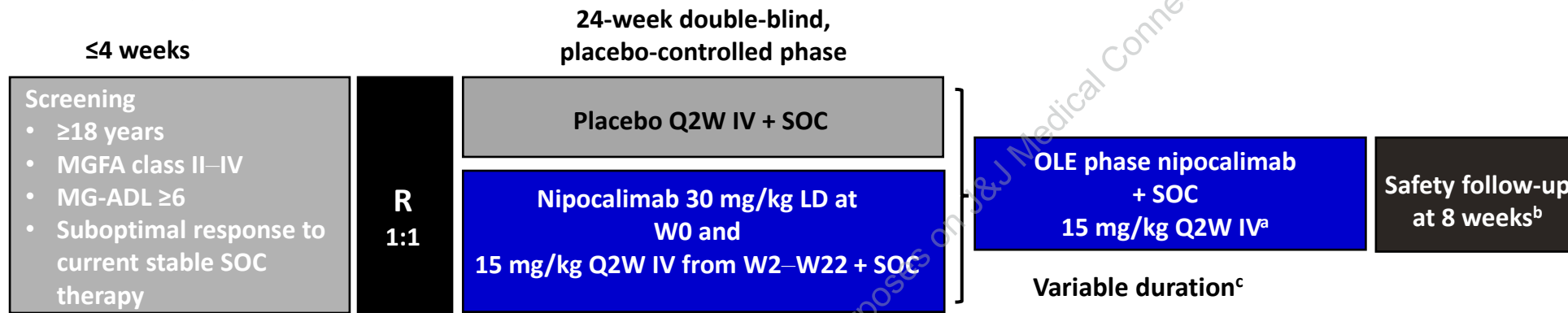
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METHODS

FIGURE 1. Study Design¹



- **Tapering one of the participant’s concomitant gMG medications** was allowed only in the OLE phase at every 4 weeks, if the disease has been stable in the past 4 weeks as reflected by MG-ADL scores and based on the investigator’s discretion
- **Corticosteroid tapering:**
 - For participants on a corticosteroid dose >30 mg per day, the dose was decreased by no more than 10 mg every 4 weeks, until a dose of ≤30 mg per day is reached
 - For participants on a corticosteroid dose of ≤30 mg per day, the dose was decreased by no more than 5 mg every 4 weeks

1. Antozzi C, et al. *Lancet Neurol.* 2025; 24:105-116. ^a Due to the COVID-19 pandemic, some participants from the Phase 2 study (NCT03772587) were unable to enter the Phase 2 OLE study (NCT03896295). These participants could directly enter the Phase 3 OLE and their data will be disclosed later; ^b Participants who withdraw or discontinue after receiving any amount of study intervention are required to complete a safety follow-up visit 8 weeks after their last dose; ^c In the EU, the OLE phase will be up to 240 weeks. COVID-19, coronavirus disease 2019; EU, European Union; IV, intravenous; LD, loading dose; MG-ADL, Myasthenia Gravis-Activities of Daily Living; MGFA, Myasthenia Gravis Foundation of America; OLE, open-label extension; Q2W, every 2 weeks; R, randomized 1:1; SOC, standard-of-care; W, week.



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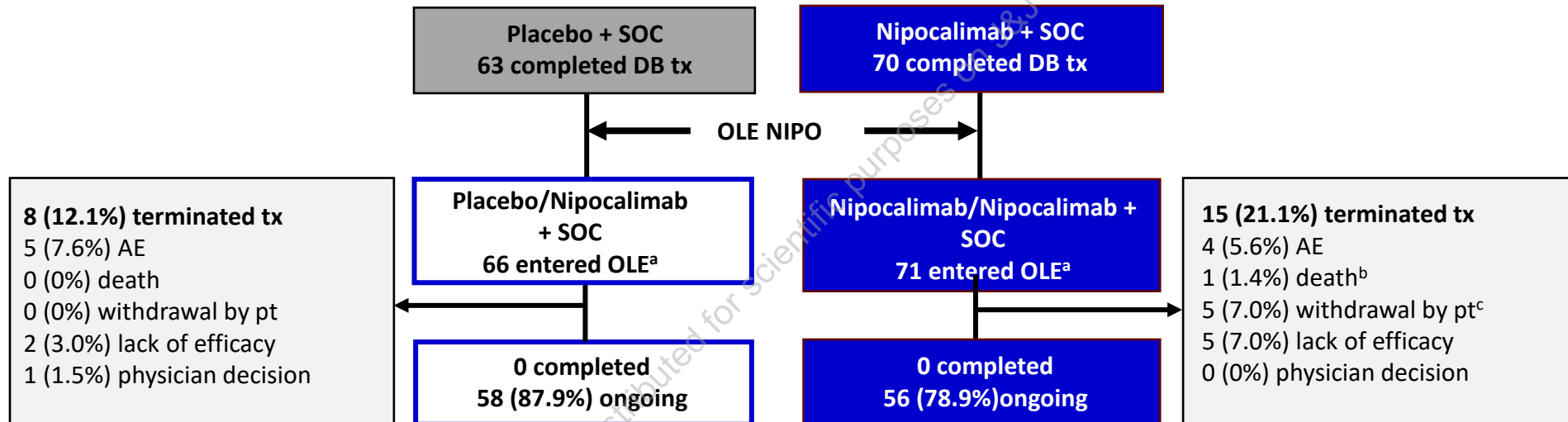
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RESULTS: Patient disposition

- The Open-label phase is ongoing
- ~83% of participants entering the open-label phase were still receiving treatment at data cut-off (August 2024)

FIGURE 2: Disposition (Seropositive [anti-AChR positive, anti-MuSK positive, and/or anti-LRP4 positive] population)



^aPer protocol, participants requiring rescue treatment during the DB phase completed the DB end-of-phase visit and were eligible to enter the OLE per investigator's discretion. Four patients discontinued the double-blind phase prior to Week 24, but entered the open-label phase: 3 PBO/NIPO and 1 NIPO/NIPO; ^bCardiac failure (unrelated to treatment) occurred 2 days after the last dose of study treatment on study day 422; ^cReasons for withdrawal: lack of improvement; participant was unsatisfied; travel to site was too tiring after surgery; personal reasons; and participant concern about poor vascular access
AChR, acetylcholine receptor; AE, adverse event; DB, double-blind; ; LRP4, low-density lipoprotein receptor-related protein 4; OLE, open-label extension; pt, participant; SOC, standard of care; tx, treatment



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RESULTS: Baseline characteristics

- Baseline characteristics of participants entering the OLE are similar to that of the overall population at DB baseline

TABLE 1: Baseline demographics and characteristics (Seropositive population)

Sample	Double-blind ¹		Open-label	
	Placebo + SOC	Nipocalimab + SOC	Placebo/Nipocalimab + SOC	Nipocalimab/Nipocalimab + SOC
Analysis Set: Seropositive efficacy (DB and OLE)^a	76	77	66	71
Age mean (range), years	52.3 (20, 81)	52.5 (20, 81)	51.6 (20, 81)	51.1 (20, 81)
Female, n (%)	42 (55.3%)	50 (64.9%)	38 (57.6%)	46 (64.8%)
Race, n (%)				
American Indian or Alaska native	0	1 (1.3%)	0	1 (1.4%)
Asian	25 (32.9%)	24 (31.2%)	21 (31.8%)	22 (31.0%)
Black/African American	1 (1.3%)	1 (1.3%)	1 (1.5%)	1 (1.4%)
White	47 (61.8%)	49 (63.6%)	41 (62.1%)	45 (63.4%)
Not reported	3 (3.9%)	2 (2.6%)	3 (4.5%)	2 (2.8%)
BMI, mean (SD), kg/m²	28.5 (5.78)	27.6 (5.39)	28.6 (5.99)	27.5 (5.30)
Baseline MG-ADL total score, mean (SD)	9.0 (1.97)	9.4 (2.73)	9.0 (1.98)	9.3 (2.75)
Baseline QMG total score, mean (SD)	15.7 (4.92)	15.1 (4.78) ^b	15.6 (4.90)	15.2 (4.85) ^c
Anti-AChR⁺/Anti-MuSK⁺/Anti-LRP4⁺, n	71/4/1	63/12/2	61/4/1	59/10/2

1. Antozzi C, et al. *Lancet Neurol.* 2025; 24:105-116. ^aAll randomized seropositive participants who received ≥1 dose of study intervention in the DB phase or all seropositive participants who received ≥1 dose of nipocalimab in the OLE phase; ^bn=73; ^cn=67; AChR+, acetylcholine receptor antibody-positive; BMI, body mass index; DB, double-blind; gMG, generalized myasthenia gravis; LRP4+, low density lipoprotein receptor-related protein 4-positive; MG-ADL, Myasthenia Gravis-Activities of Daily Living; MuSK+, muscle-specific kinase antibody-positive; OLE, open-label extension; QMG, Quantitative Myasthenia Gravis; SD, standard deviation; SOC, standard-of-care.

Autoantibody: MG



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RESULTS: Treatment exposure

- 137 antibody-positive participants were treated with nipocalimab during OLE phase
- Total median (range) duration-of-treatment for
 - Placebo/Nipocalimab (n=66): 69.1 weeks (8–128)
 - Nipocalimab/Nipocalimab (n=71): 62.1 weeks (8–128)
- Treatment at data cut-off, represents ~87-90 patient-years after completion of DB phase
- Among participants in OLE phase, follow-up duration was over 96 weeks

TABLE 2: Nipocalimab exposure (Seropositive population)

	Double-blind		Open-label	
	Placebo + SOC	Nipocalimab + SOC	Placebo/Nipocalimab + SOC	Nipocalimab/Nipocalimab + SOC
Analysis set: Seropositive efficacy (DB and OLE)	76	77	66	71
Treatment duration, median (range), weeks ^a	22.1 (0, 23)	22.1 (2, 23)	69.1 (8, 128)	62.1 (8, 128)
Number of administrations received, median (range)	12.0 (1, 12)	12.0 (2, 12)	35.0 (5, 57)	31.0 (5, 65)
Total treatment, participant-years, sum	29.2	30.4	86.8	90.3
Duration of follow-up, median (range), weeks ^b	24.0 (0, 31)	24.0 (10, 25)	69.7 (10, 128)	62.1 (16, 128)

^aTotal duration of treatment=(date of last dose of study intervention minus date of first dose of study intervention) + 1; ^bTotal duration of follow-up = (date of last contact minus date of first dose of study intervention) + 1.
DB, double-blind; OLE, open-label extension; SOC, standard-of-care

Autoantibody: MG



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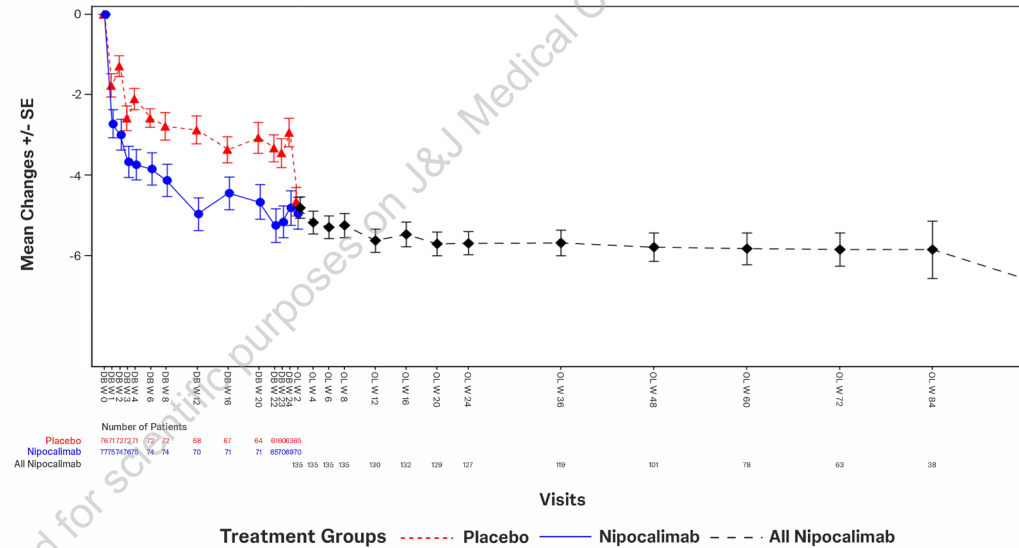
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RESULTS: Mean change in MG-ADL

- At OLE week 96, MG-ADL mean (SE) change from double-blind baseline:
 - Placebo/Nipocalimab+SOC: -6.69 (0.85)
 - Nipocalimab/Nipocalimab+SOC: -6.47 (1.20)
 - All Nipocalimab+SOC: -6.58 (0.71)
- 50% (77/153) of all patients achieved MSE¹ at anytime during the study
- 32% (49/153) of all patients achieved sustained MSE¹ for ≥8 weeks

FIGURE 3: CFB in MG-ADL over time (Seropositive population)



1. Meisel A, et al. *Eur J Neurol.* 2026;33(3):e70563. Note: P-value for comparison of MG-ADL total score change from baseline significantly different from zero using a one-sample t-test; ^aP<0.001, ^bP<0.001. CFB, change from baseline; DB, double-blind; MG-ADL, Myasthenia Gravis-Activities of Daily Living; OL(E), open-label extension; MSE, minimal symptom expression; SE, standard error; SOC, standard-of-care; W, week.



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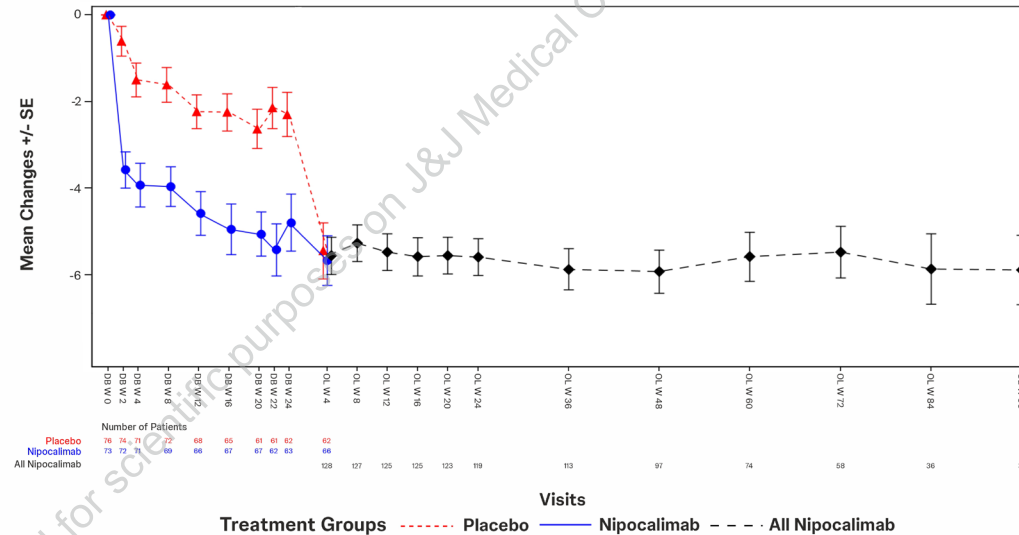
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RESULTS: Mean change in QMG

- At OLE week 96, QMG mean (SE) change from double-blind baseline:
 - Placebo/Nipocalimab+SOC: -5.81 (1.03)
 - Nipocalimab/Nipocalimab+SOC : -5.97 (1.29)
 - All Nipocalimab+SOC: -5.89 (0.80)

FIGURE 4: CFB in QMG over time (Seropositive population)



Note: P-value for comparison of QMG total score change from baseline significantly different from zero using a one-sample t-test; *P<0.001, ^bP<0.001. CFB, change from baseline; OLE, open-label extension; QMG, Quantitative Myasthenia Gravis; SE, standard error; SOC, standard-of-care; W, week.

Autoantibody: MG



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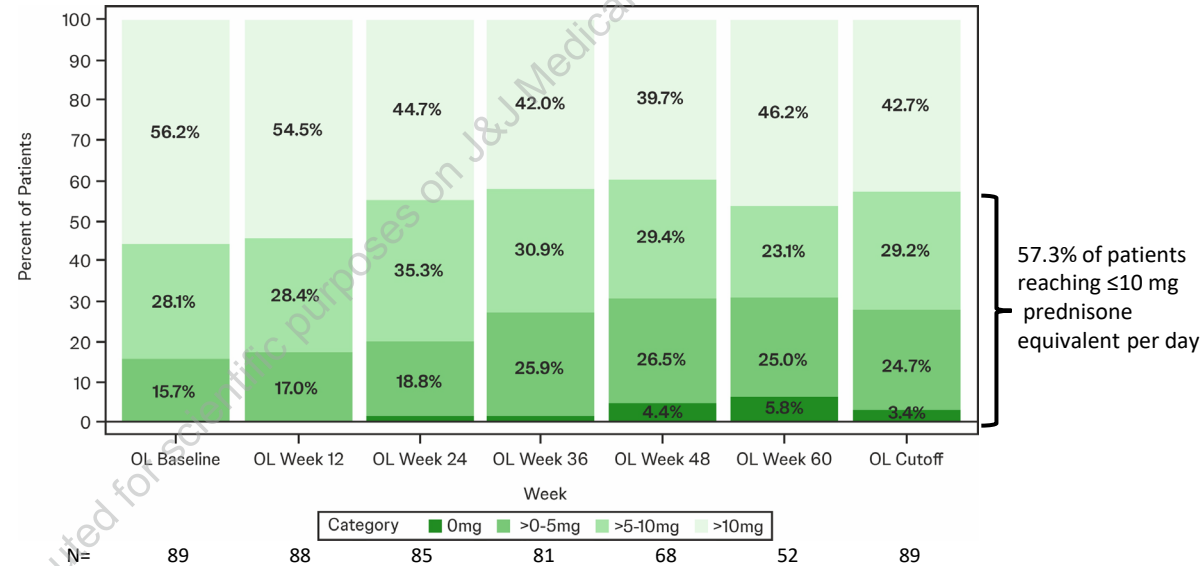
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RESULTS: Corticosteroid-sparing outcomes among treated individuals

- Corticosteroid use decreased over time in the OLE phase with increasing proportions reaching ≤ 10 mg prednisone eq per day
- 45% (40/89) of patients receiving corticosteroids at open-label baseline were able to decrease or discontinue corticosteroids at data cutoff^a
 - Among these patients the mean dose of prednisone decreased from 23 to 10^b mg eq per day
- 57% of all patients reached ≤ 10 mg prednisone eq per day at data cutoff

FIGURE 5: Proportion of patients with corticosteroid reduction over time – All patients by dose group (Seropositive population)



1. Maggio, MC, et al. *Int J Mol Sci.* 2023;24(17):13192. 2. Nayak S and Achariya B. *Indian J Dermatol.* 2008;53(4):167–170. ^aTapering one of the patient's concomitant MG medications Q4W was allowed in OLE phase if disease was stable in past 4 weeks based on MG-ADL scores and on investigator's discretion. ^bSteroid dose equivalents were calculated as described.^{1,2} Note: Prednisone (mg) at each week equals the mean daily prednisone dose for the 28 days prior to and including that week. Note: Cutoff is the analysis reference end date for patient. MG-ADL, Myasthenia Gravis-Activities of Daily Living; OLE, open-label expansion, Q4W, every 4 weeks.



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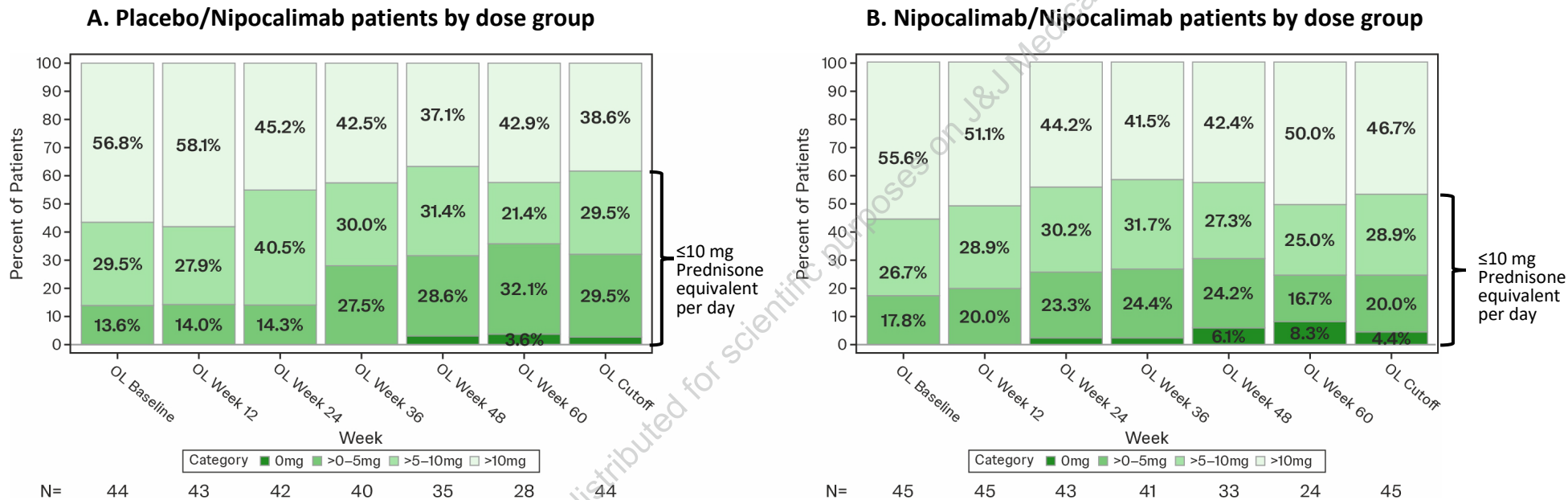
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RESULTS: Corticosteroid-sparing outcomes among treated individuals

- Patients in the Nipocalimab/Nipocalimab group started to discontinue steroids as early as week 24

FIGURE 6: Proportion of patients with steroid reduction over time, groupwise (Seropositive population)



Note: Prednisone (mg) at each week equals the mean daily prednisone dose for the 28 days prior to and including that week. Note: Cutoff is the analysis reference end date for patient. OL, open-label.



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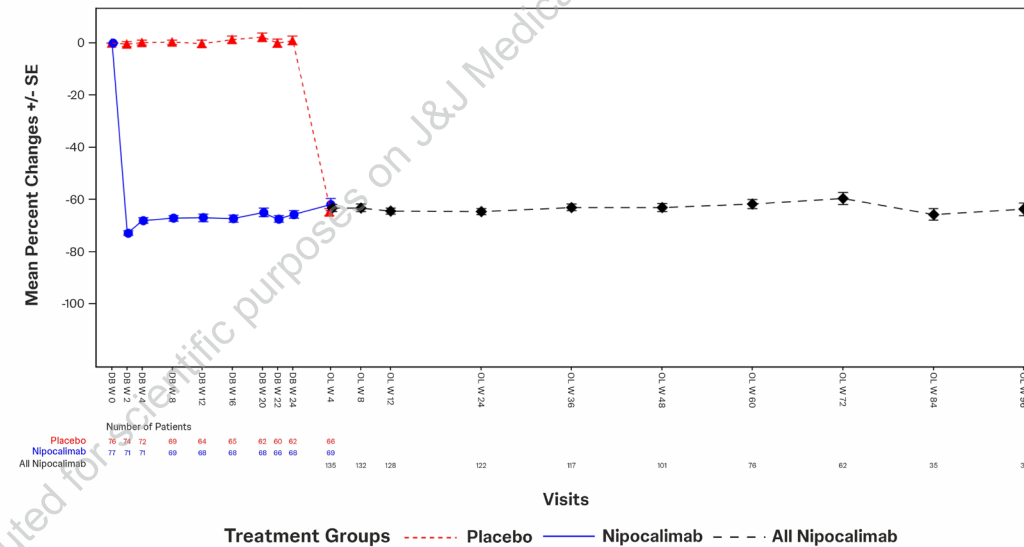
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RESULTS: PD biomarkers (mean percentage change in IgG levels)

- Nipocalimab demonstrated rapid and sustained lowering of IgG in DB phase.
 - The median predose (minimal) total IgG percent change from baseline after the loading dose was -74.6% (IQR -79.4 to -68.7) at DB week 2
- At 2-year (OLE week 96, n=31), mean (SD) predose (minimal) IgG percentage change from double-blind baseline:
 - Placebo/Nipocalimab+SOC: -63.24% (14.32)
 - Nipocalimab/Nipocalimab+SOC: -64.06% (12.91)

FIGURE 7: PD biomarker: total IgG reduction from DB baseline (Seropositive population)



DB, double-blind; IgG, immunoglobulin G; IQR, interquartile range; OLE, open-label extension; PD, pharmacodynamic; SE, standard error; SOC, standard of care; SD, standard deviation; W, week.

Autoantibody: MG



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RESULTS: Safety

- There were no unexpected adverse events during the OLE
- Adverse event rates including MACE were generally similar in the 'DB Placebo' and 'OLE All Nipocalimab' groups

TABLE 3: Safety and tolerability (Seropositive population)

	DB Placebo			DB Nipocalimab			OLE All Nipocalimab		
Analysis Set: Seropositive	76			77			137		
Average follow-up duration, wks	22.92			23.13			68.96		
P-Y ^a	33.4			34.1			181.1		
	Events/P-Y ^a	Events, n	Pts, n ^b	Events/P-Y ^a	Events, n	Pts, n ^b	Events/P-Y ^a	Events, n	Pts, n ^b
All AE	6.98	233	62	8.41	287	64	5.10	924	124
Serious AE	0.57	19	11	0.35	12	5	0.28	51	31
Fatal AE	0.06	2 ^c	2 ^c	0.03	1 ^c	1 ^c	0.02	3 ^{c,d}	3 ^{c,d}
Tx discontinuation due to AE ^e	0.18	6	6	0.18	6	4	0.06	11	11
Infection and infestations	1.32	44	31	1.70	58	33	1.20	217	93
Infusion-related reaction ^f	0.51	17	6	0.35	12	9	0.07	12	7
Adjudicated MACE, fatal	0.06	2	2	0	0	0	0.01	2	2
Adjudicated MACE, not fatal	0.03	1	1	0	0	0	0.04	7 ^g	1

^aParticipant-years of observation (P-Y) is calculated as the total duration of follow-up in days/365.25; ^bParticipants with ≥1 AE are shown; ^cInvestigator assessed death(s) as unrelated to treatment; ^dInvestigator assessed 1 death as related to treatment (hemophagocytic lymphohistiocytosis); ^ePermanent discontinuation of treatment. Treatment discontinuation for an AE with onset in DB (or OLE) occurred in DB (or OLE); ^fIndicated as infusion reaction by investigator on eCRF and relationship to study intervention="Related."; ^gAll 7 adjudicated MACE events occurred in a single patient with a documented history of cardiovascular disease; the last MACE event was fatal. AE, adverse event; DB, double-blind; eCRF, case report form; MACE, major adverse cardiovascular event; NIPO, nipocalimab; n, number; OLE, open-label extension; PBO, placebo; Pt, participant; P-Y, participant-year; TEAE, treatment-emergent adverse events; Tx, treatment; wks, weeks.



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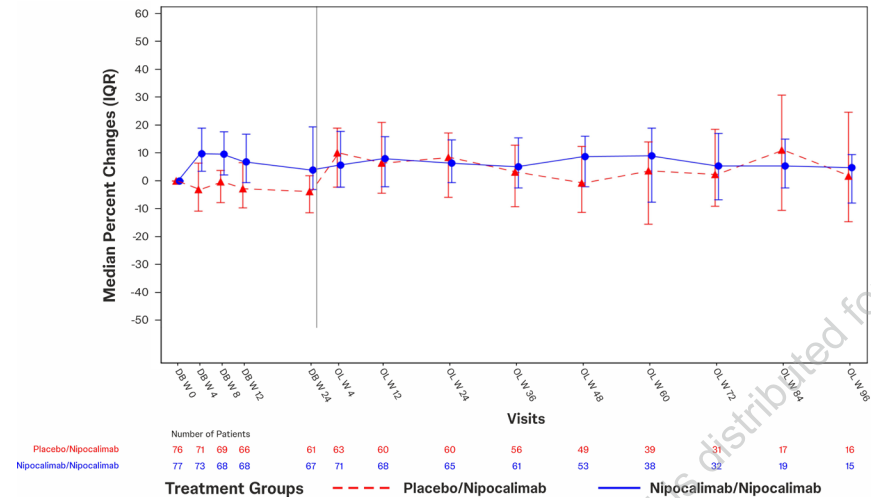
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RESULTS: Lipids over time

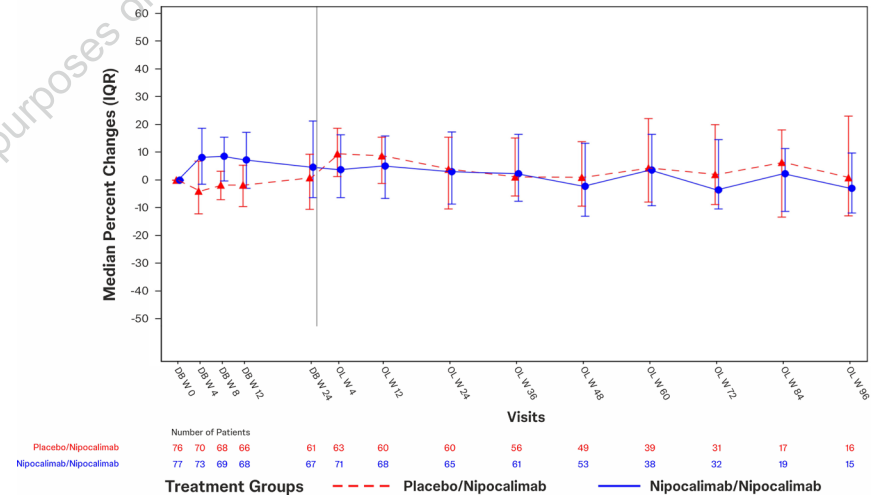
- From baseline to DB week 24, cholesterol/HDL ratios were stable in both the groups and <5
 - The median ratio remained stable to OLE week 96 and <5

FIGURE 8: Lipids over time (Seropositive population)

(A) Median percent changes in cholesterol (mmol/L) from DB baseline



(B) Median percent changes in HDL cholesterol (mmol/L) from DB baseline



DB, double-blind; HDL, high-density lipoprotein; IQR, interquartile range; OLE, open-label extension.

Autoantibody: MG



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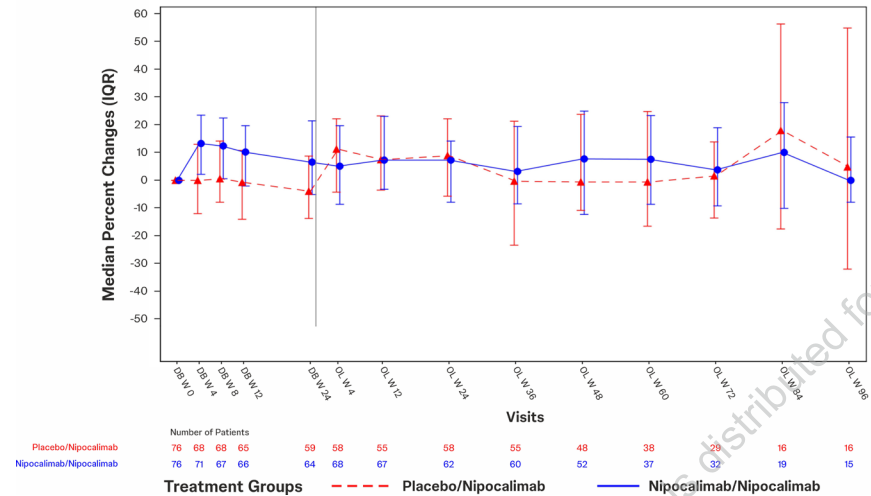
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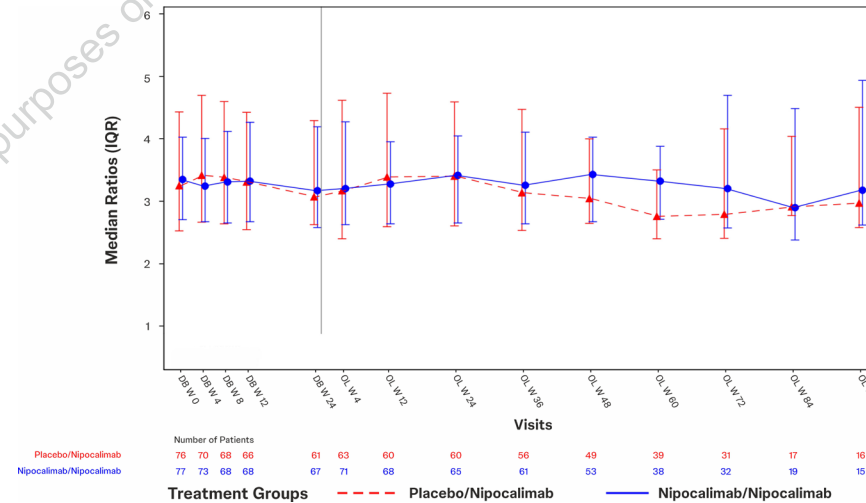
RESULTS: Lipids over time

- Ratios remained stable because similar percent increases in both HDL and LDL were observed with nipocalimab

(C) Median percent changes in LDL cholesterol (mmol/L) from DB baseline



(D) Median cholesterol /HDL ratios



DB, double-blind; HDL, high-density lipoprotein; ; IQR, interquartile range; LDL, low-density lipoprotein; OL(E), open-label extension.

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CONCLUSIONS

- ✓ In autoantibody-positive patients with gMG, long-term treatment with nipocalimab demonstrated sustained disease control through the 24-week phase 3 Vivacity-MG3 study and the 96-week OLE (120 weeks total)
- ✓ Dose reductions in corticosteroid usage were observed through the study with the majority of patients reaching 10 mg or less of prednisone equivalent per day
- ✓ There are no new safety concerns and event rates of adverse events were comparable in the double-blind and open-label extension phases

gMG, generalized myasthenia gravis; OLE, open-label extension.

Autoantibody: MG



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DISCLOSURES:

Carlo Antozzi: Funding travel, meeting attendance & advisory board participation: Alexion, argenx, Momenta, Sanofi, UCB

Tuan Vu: Research or grant support related to MG: Alexion/AstraZeneca Rare Disease, argenx, COUR, Dianthus, Immunovant, NMD Pharma, Regeneron, EMD Serono, UCB, Sanofi, Johnson & Johnson; consultant &/or speaker bureau: Alexion/AstraZeneca Rare Disease, argenx, CSL Behring, Dianthus, NMD Pharma, Sanofi, Johnson & Johnson

Sindhu Ramchandren, Panna Sanga, Ibrahim Turkoz, Yaowei Zhu, Marie Fitzgibbon, and Michel Burcklen: Are/were employees of Johnson & Johnson; may hold stock or stock options in Johnson & Johnson

Richard J. Nowak: Research support: National Institutes of Health, Genentech, Inc., Alexion Pharmaceuticals, Inc., argenx, Annexon Biosciences, Inc., Ra Pharmaceuticals, Inc. (now UCB S.A.), the Myasthenia Gravis Foundation of America, Inc., Momenta Pharmaceuticals, Inc. (now Johnson & Johnson), Immunovant, Inc., Grifols, S.A., and Viela Bio, Inc. (Horizon Therapeutics, now Amgen Inc.); consultant/advisor: Alexion Pharmaceuticals, Inc., argenx, Cabaletta Bio, Inc., Cour Pharmaceuticals, Ra Pharmaceuticals, Inc. (now UCB S.A.), Immunovant, Inc., Momenta Pharmaceuticals, Inc. (now Johnson & Johnson), and Viela Bio, Inc. (Horizon Therapeutics, now Amgen Inc.)

Constantine Farmakidis: Medical advisory board participation: Argenx, Johnson & Johnson, UCB; Consulting: the Muscular Dystrophy Association

Vera Bril: Research support: argenx, Akcea, AZ-Alexion, CSL, Grifols, Immunovant, Ionis and Viela, Momenta (Johnson & Johnson), Octapharma, Takeda, UCB

Jan De Bleecker: Consultant: Alnylam Pharmaceuticals Inc, argenx, Alexion Pharmaceuticals Inc., CSL, Sanofi Genzyme, UCB

Huan Yang, Eduard Minks, Jin-Sung Park, Mariusz Grudniak, Marek Smilowski, and Kumaraswamy Sivakumar: No competing interests

Teresa Sevilla: Honoraria/attendance at advisory boards: argenx, UCB

Sarah Hoffmann: Speakers' honoraria: Alexion, argenx, Grifols, Roche, UCB; honoraria/attendance at advisory boards: Alexion, argenx, Roche; member of the medical advisory board: the German Myasthenia Society, DMG

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