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KEY TAKEAWAYS



Nipocalimab demonstrated sustained, clinically meaningful disease control over 84 weeks in a broad population of autoantibody-positive gMG patients, while maintaining an acceptable safety profile

gMG, generalized myasthenia gravis.



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Kumaraswamy Sivakumar, MD, Eriene Youssef, PharmD, Panna Sanga, MD, Keith Karcher, MS, Yaowei Zhu, PhD, John Sheehan, PhD, Hong Sun, MD, PhD

INTRODUCTION

Autoantibody: MG

- Nipocalimab is a fully human, aglycosylated investigational monoclonal antibody, designed to bind with high affinity and specificity to block FcRn; this decreases circulating IgG without causing broad immunosuppression¹⁻³
- During the phase 3 Vivacity-MG3 placebo-controlled double-blind period, consistently-dosed nipocalimab + SOC resulted in rapid and substantial lowering of circulating IgG, including MG pathogenic antibodies, sustained over 6 months⁴
- IgG reduction was associated with rapid and sustained disease control over 6 months in a broad population of antibody-positive patients with gMG⁴
 - LS mean CFB (SE) in MG-ADL score from baseline to weeks 22-24 = -4.70 (0.329) for nipocalimab + SOC vs -3.25 (0.335) for placebo + SOC (difference -1.45 [95% CI -2.38 to -0.52]; $p=0.0024)^4$

1. Leu JH, et al. Front Neurosci. 2024;18:1302714; 2. Ling LE, et al. Clin Pharmacol Ther. 2019;105(4):1031-1039; 3. Ling LE, et al. Hematol Transfus Cell Ther. 2022; 44:S133. 4. Antozzi C, et al. Lancet Neurol. 2025; 24:105-116. CFB, change from baseline; CI, confidence interval; FcRn, neonatal fragment crystallizable receptor; gMG, generalized myasthenia gravis; IgG, immunoglobulin G; LS, least square; MG-ADL, Myasthenia Gravis-Activities of Daily Living; SE, standard error; SOC, standard-of-care.









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METHODS

- Vivacity-MG3 (NCT04951622) is a multicenter, randomized, double-blind, placebo-controlled study with an ongoing OLE phase, designed to evaluate the efficacy, safety, PK, and PD of nipocalimab in adults with gMG^{1,a}
- Participants who completed the double-blind phase were eligible for OLE
- Results from the primary efficacy population (seropositive: anti-AChR+, anti-MuSK+ and/or anti-LRP4+) participants are presented
- Participants could receive concomitant, stable SOC treatment during the trial^b

Autoantibody: MG

AChR+, acetylcholine receptor antibody-positive; gMG, generalized myasthenia gravis; LRP4+, low density lipoprotein receptor-related protein 4-positive; MuSK+, muscle-specific kinase antibody-positive; OLE, open-label extension; PD, pharmacodynamics; PK, pharmacokinetics; SOC, standard-of-care; US, United States of America.











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^{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 (≤9 >9), and region (East Asia, US, rest of world); ^bSOC includes acetylcholinesterase inhibitor, glucocorticosteroid, and/or immunosuppressant.

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METHODS

FIGURE 1: Study Design¹

≤4 weeks

24-week double-blind, placebo-controlled phase

Screening

- ≥18 years
- MGFA class II-IV
- MG-ADL ≥6
- Suboptimal response to current stable SOC therapy

R

Placebo Q2W IV + SOC

Nipocalimab 30 mg/kg LD at Wk 0 and 15 mg/kg Q2W IV from Wks 2-22 + SOC OLE phase nipocalimab 15 mg/kg Q2W IV + SOC^a

Variable duration^c

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1. Antozzi C, et al. Lancet Neurol. 2025; 24:105-116.

^aDue to the COVID-19 pandemic, some participants from the Phase 2 study were unable to enter the Phase 2 OLE study. These participants could directly enter the Phase 3 OLE and their data will be disclosed later; ^bParticipants who withdraw or discontinue after receiving any amount of study intervention are required to complete a safety follow-up visit 8 wks after their last dose; ^c In the EU, the OLE phase will be up to 240 wks. 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; wk(s), week(s).

Autoantibody: MG

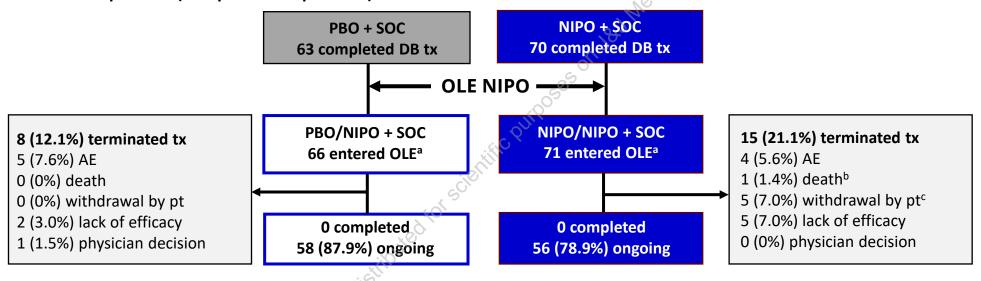


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RESULTS

- Open-label phase is ongoing
- ~83% of participants entering the open-label phase are still receiving treatment at data cut-off

FIGURE 2: Disposition (Seropositive 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
AE, adverse event; DB, double-blind; NIPO, nipocalimab; OLE, open-label extension; PBO, placebo; pt, participant; SOC, standard of care; tx, treatment

Autoantibody: MG

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TABLE 1: Baseline Demographics and Characteristics (Seropositive Population)

 DB baseline characteristics of participants entering the OLE are similar to the overall DB population

^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 OL 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; NIPO, nipocalimab; OLE, open-label extension; PBO, placebo; QMG, Quantitative Myasthenia Gravis; SD, standard deviation; SOC, standard-of-care.

Sample	Doub	ole-blind	Open-label			
	PBO + SOC	PBO + SOC NIPO + SOC		NIPO/NIPO + 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 (%)	lilo					
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		

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RESULTS

Autoantibody: MG

- 137 antibody-positive participants were treated with nipocalimab during OLE phase
- 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 62 weeks

TABLE 2: Nipocalimab Exposure (Seropositive Population)

	Doub	le-blind	Open-label		
	PBO + SOC	NIPO + SOC	PBO/NIPO + SOC	NIPO/NIPO + SOC	
Analysis set: Seropositive efficacy (DB and OLE)	76	,,;;0 ⁰ 77	66	71	
Treatment duration, median (range), weeksa	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)	

a Total duration of treatment=(date of last dose of study intervention minus date of first dose of study intervention) + 1; b Total duration of follow-up = (date of last contact minus date of first dose of study intervention) + 1. DB, double-blind; NIPO, nipocalimab; OLE, open-label extension; PBO, placebo; SOC, standard-of-care













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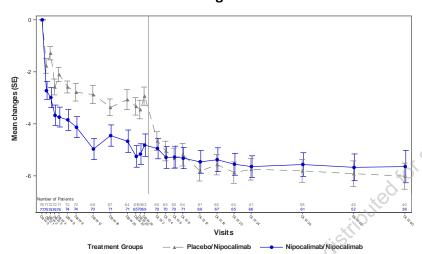
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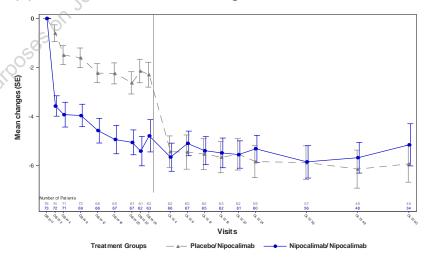
- At OLE Week 60, MG-ADL mean (SE) change from double-blind baseline: -6.01 (0.503) in PBO/NIPO + SOC and -5.64 (0.621) in NIPO/NIPO + SOC^a
- At OLE Week 60, QMG mean (SE) change from double-blind baseline: -5.94 (0.749) in PBO/NIPO + SOC and -5.16 (0.860) in NIPO/NIPO + SOC^b

FIGURE 3: CFB of MG-ADL and QMG Over Time (Seropositive Population)

(A) MG-ADL Total Score: Mean Changes from DB Baseline



(B) QMG Total Score: Mean Changes from DB Baseline



Note: P-value for comparison of MG-ADL and QMG 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; NIPO, nipocalimab; PBO, placebo; OL(E), open-label extension; QMG, Quantitative Myasthenia Gravis; SE, standard error; SOC, standard-of-care; W, week.

Autoantibody: MG



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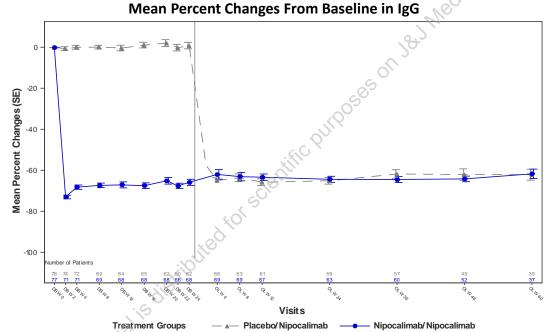
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RESULTS

Autoantibody: MG

At OLE Week 60, mean (SE) % CFB of IgG levels were −61.56 (2.297) in NIPO/NIPO + SOC and −61.96 (2.686) in PBO/NIPO + SOC groups

FIGURE 4: PD Biomarker: Total IgG Reduction from Baseline (Seropositive Population)



CFB, change from baseline; DB, double-blind; IgG, Immunoglobulin G; PD, pharmacodynamic; OL(E), open-label extension; SE, standard error; SOC, standard-of-care; W, week.









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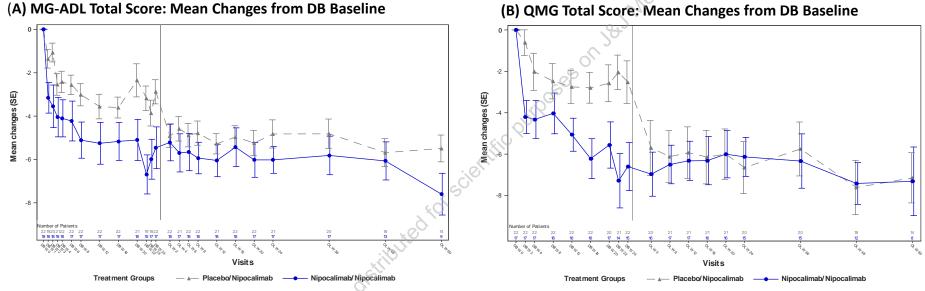
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RESULTS

Autoantibody: MG

- 45% (40/89) of participants receiving steroids at open-label baseline were able to decrease or discontinue steroids at data cutoffa
 - Among these patients the mean dose of prednisone (mg eq per day) decreased from 23 to 10^b
- Efficacy was maintained in participants who decreased/discontinued steroids

FIGURE 5: MG-ADL and QMG in Participants who Decreased/Discontinued Steroids (Seropositive Population)



^{1.} Maggio, MC, et al. Int J Mol Sci. 2023;24(17):13192. 2. Nayak S and Acharjya B. Indian J Dermatol. 2008;53(4):167–170.









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^aTapering one of the subject'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 described1-2

CFB, change from baseline; DB, double-blind, MG-ADL, Myasthenia Gravis-Activities of Daily Living; OL, open-label extension; SE, standard error; QMG, Quantitative Myasthenia Gravis; Q4W, every 4 weeks; W, week.

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RESULTS

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

TABLE 3: Safety and Tolerability (Seropositive Population)

	DB PBO			DB NIPO			OLE All NIPO		
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	12	0	0	0	0.01	2	2
Adjudicated MACE, not fatal	0.03	1	1	0	0	0	0.04	7	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 death (s) as unrelated to treatment; ^dInvestigator assessed death (s) as unrelated to treatment; ^dInvestigator assessed death (s) as unrelated to treatment (hemophagocytic lymphohisticocytosis); ^ePermanent discontinuation of treatment. Treatment discontinuation for an AE with onset in DB (or OLE); ^fIndicated as infusion reaction by investigator on eCRF and relationship to study intervention="Related." 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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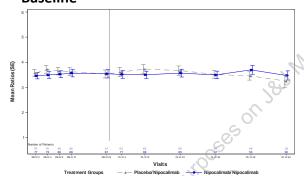
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FIGURE 6: Lipids Over Time (Seropositive Population)

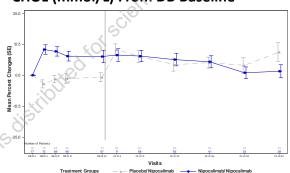
- From BL to DB Week 24, CHOL/HDL ratios (mean CFB) were stable in both the PBO/NIPO and NIPO/NIPO groups (-0.1 and 0, respectively)
- This ratio (mean CFB) remained stable at OLE Week 60 (-0.2 and +0.2, respectively)
 - Ratios remained stable because similar percent increases in both HDL and LDL were observed with nipocalimab

BL, baseline; CFB, change from baseline; CHOL, cholesterol; DB, double-blind; HDL, high-density lipoprotein; LDL, low-density lipoprotein; NIPO, nipocalimab; OL(E), open-label extension; PBO, placebo; SE, standard error.

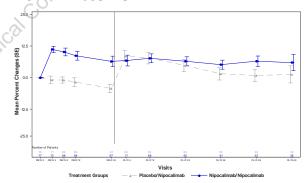
(A) Mean CHOL/HDL Ratios From DB Baseline



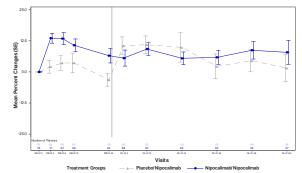
(C) Mean Percent Changes in HDL CHOL (mmol/L) From DB Baseline



(B) Mean Percent Changes in CHOL (mmol/L) From DB Baseline



(D) Mean Percent Changes in LDL CHOL (mmol/L) From DB Baseline



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CFB of MG-ADL and QMG

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MG-ADL and QMG in Participants who Decreased/Discontinued Steroids

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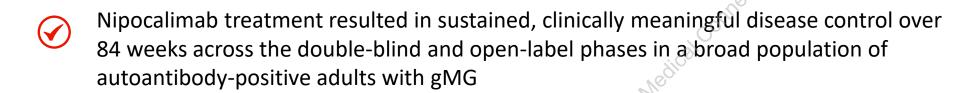
APPENDIX

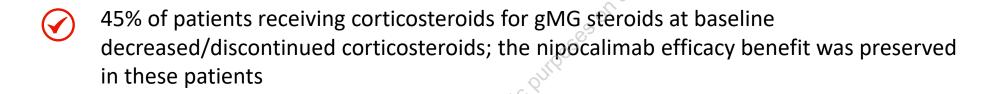


Autoantibody: MG

Kumaraswamy Sivakumar, MD, Eriene Youssef, PharmD, Panna Sanga, MD, Keith Karcher, MS, Yaowei Zhu, PhD, John Sheehan, PhD, Hong Sun, MD, PhD

CONCLUSIONS





There are no new safety concerns despite continuous IgG lowering and event rates were comparable in the double-blind placebo and open-label extension phases

gMG, generalized myasthenia gravis; IgG, immunoglobulin G.

Autoantibody: MG

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Carlo Antozzi, MD, Tuan Vu, MD, Sindhu Ramchandren, MD, MS, Richard J. Nowak, MD, MS, Constantine Farmakidis, MD, Vera Bril, MD, Jan De Bleecker, MD, PhD, Huan Yang, MD, Eduard Minks, MD, PhD, Jin-Sung Park, MD, PhD, Mariusz Grudniak, MD, Marek Smilowski, MD, Teresa Sevilla, MD, Sarah Hoffmann, MD, Kumaraswamy Sivakumar, MD, Eriene Youssef, PharmD, Panna Sanga, MD, Keith Karcher, MS, Yaowei Zhu, PhD, John Sheehan, PhD, Hong Sun, MD, PhD

APPENDIX

DISCLOSURES:

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Autoantibody: MG

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