

Evolution of gMG Therapy: From Broader Immunosuppression to Precision Therapy



Efgartigimod▼ is indicated in the EU as an add-on to standard therapy for adult patients with gMG who are AChR antibody-positive. Prescribing information can be found [here](#). Adverse event reporting details can be found [here](#). The publication of this promotional infographic was supported and funded by argenx. This content is intended for healthcare professionals outside the US only.

gMG is a rare, chronic, IgG-mediated autoimmune neuromuscular disease¹⁻⁷

IgG autoantibodies cause unpredictable and fluctuating muscle weakness, which profoundly impacts patients' lives, even on standard therapies^{1-10,*}



Fatigue and inability to participate in hobbies or social activities⁶



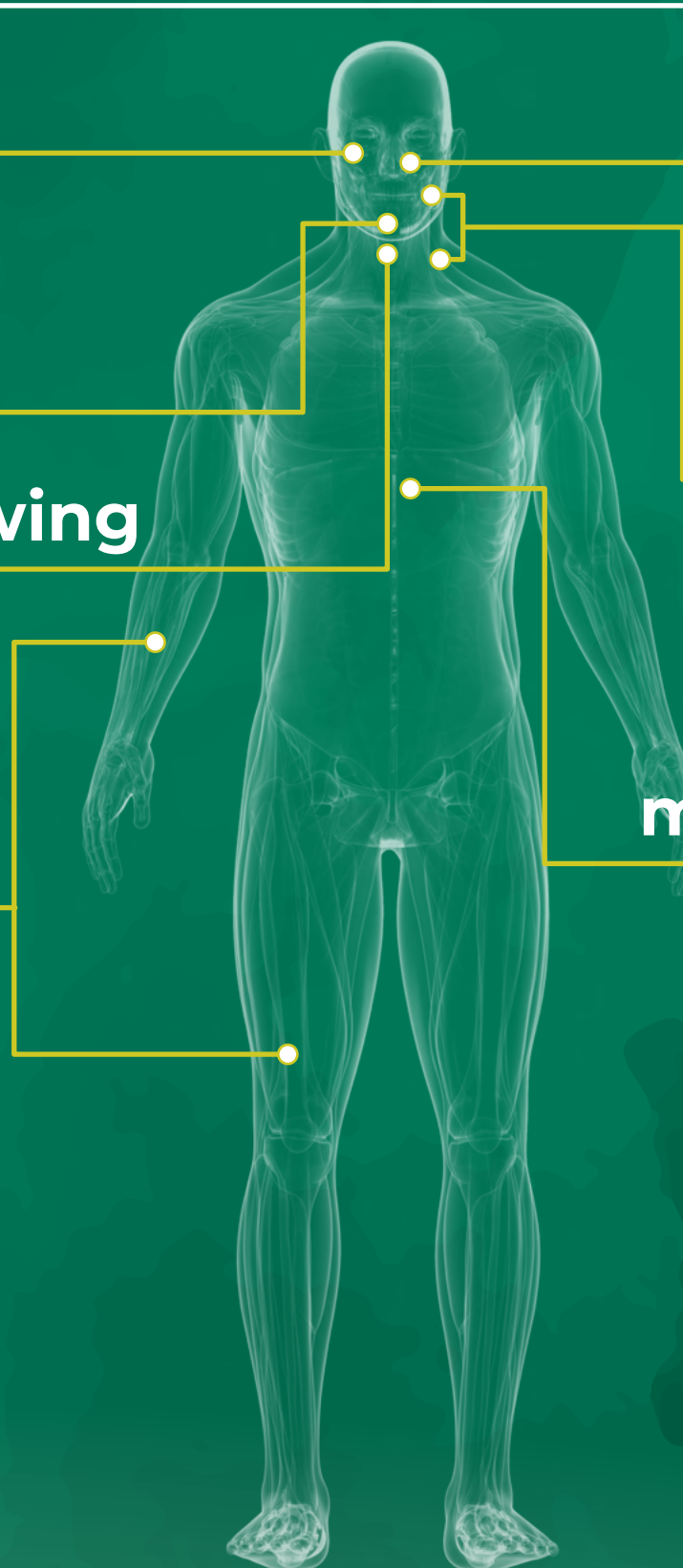
Depression and anxiety^{3,7}



Risk of severe side effects of long-term broad immunosuppressive therapy⁸

Most common symptoms of gMG^{2,5,6}

Drooping eye
Slurred speech, hoarseness
Difficulty swallowing
Proximal limb weakness
Double vision
Face and neck weakness
Respiratory muscle weakness



IgG autoantibodies drive pathogenesis in AChR antibody-positive gMG through three mechanisms^{5,11}

**~85%
of patients with gMG have AChR antibody-positive disease^{5,12}**

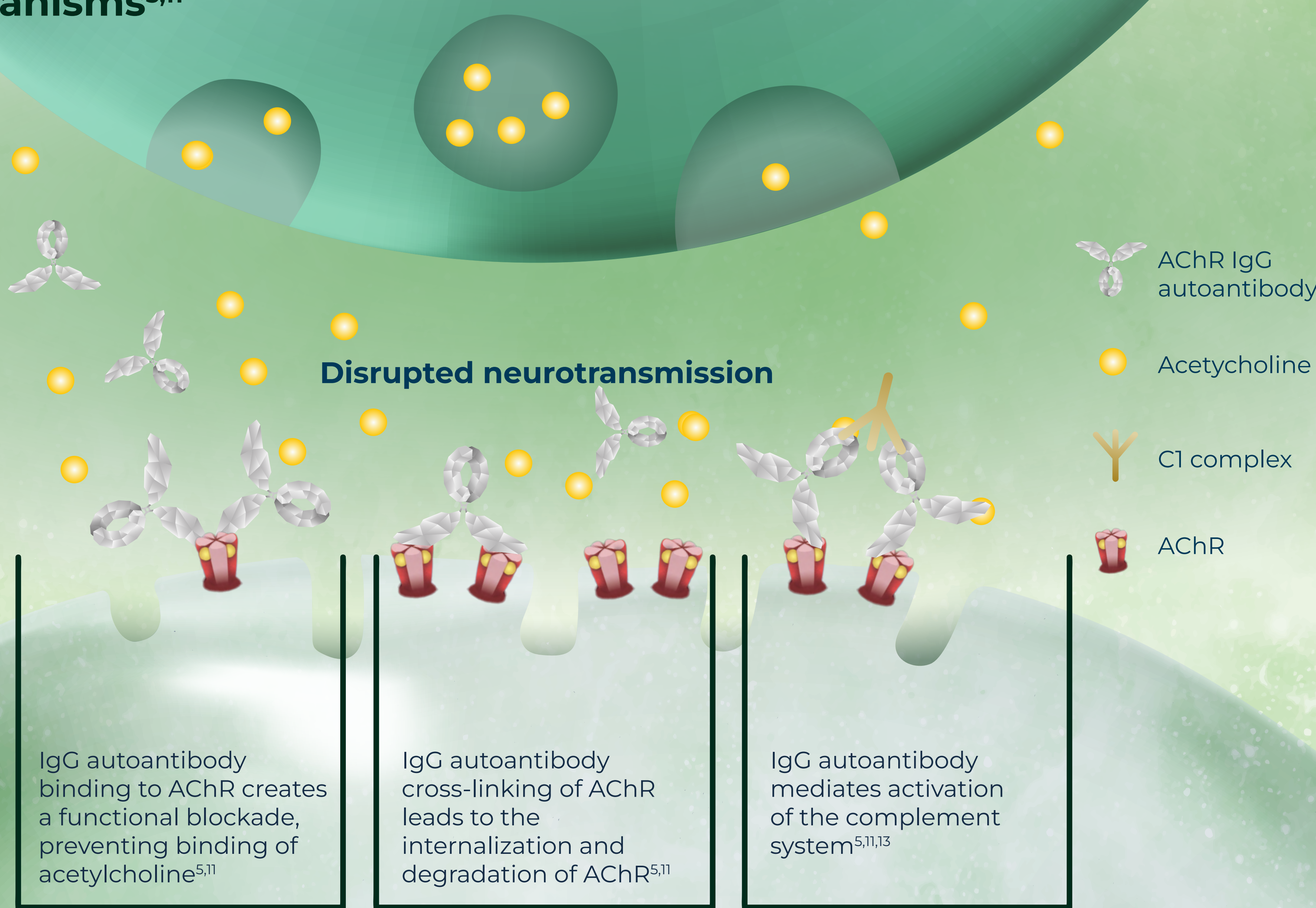


Figure adapted from Wolfe GI, et al. *J Neurol Sci* 2021;430:118074 (CC BY 4.0).

Targeted therapies for gMG may reduce the need for broad and unselective immunosuppression and improve patients' ability to perform daily activities¹⁴⁻¹⁸

Evolution of treatment options for gMG

Traditional treatment for gMG includes AChEIs and the off-label use of broad-acting immunosuppressants, which can be associated with potential serious adverse events^{9,19,20}

Thymectomy^{19,21}

AChEIs^{19,21}

Reduce the breakdown of ACh in the NMJ

IVIg or PLEX^{19,21,23}

NSiSTs^{19,21,22}

Suppress B and/or T cell proliferation and activity

Steroids^{19,21,22}

Broad immune suppression

B cell depletion^{19,21}

Prevent B cell activation and proliferation

C5i^{19,21}

Complement 5 inhibition

FcRn blockers

Efgartigimod

Full-length FcRn monoclonal antibodies^{19,21}

Block IgG binding to FcRn, reducing circulating IgG

First and only Fc-fragment approved for treatment of gMG²⁴⁻²⁶

Precision

Efgartigimod is the first and only precision Fc-fragment therapy approved to treat adults with AChR antibody-positive gMG.²⁴⁻²⁷ Efgartigimod helps to restore neurotransmission by blocking FcRn-mediated IgG recycling^{14,17,24-28}

Efgartigimod targets FcRn, resulting in the reduction of circulating IgG antibodies, including AChR autoantibodies^{14,17,24-28}

Blocks FcRn

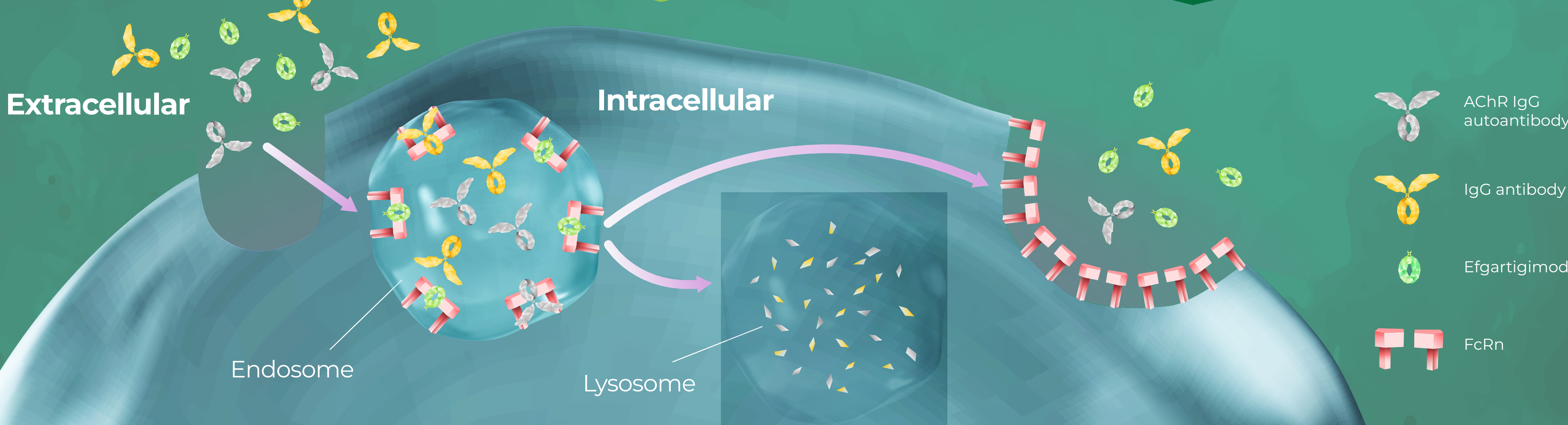
Efgartigimod outcompetes IgG antibodies, including AChR IgG autoantibodies, to bind to FcRn, thus blocking FcRn²⁷

Reduces IgG

Unbound IgG antibodies, including AChR IgG autoantibodies, are then degraded in the lysosome²⁷

Restores function

By binding to and blocking FcRn, efgartigimod helps clear IgG autoantibodies that disrupt neurotransmission^{27,28}



Efgartigimod has been engineered for natural[†], high-affinity binding to FcRn²⁷⁻²⁹

Benefits of precision

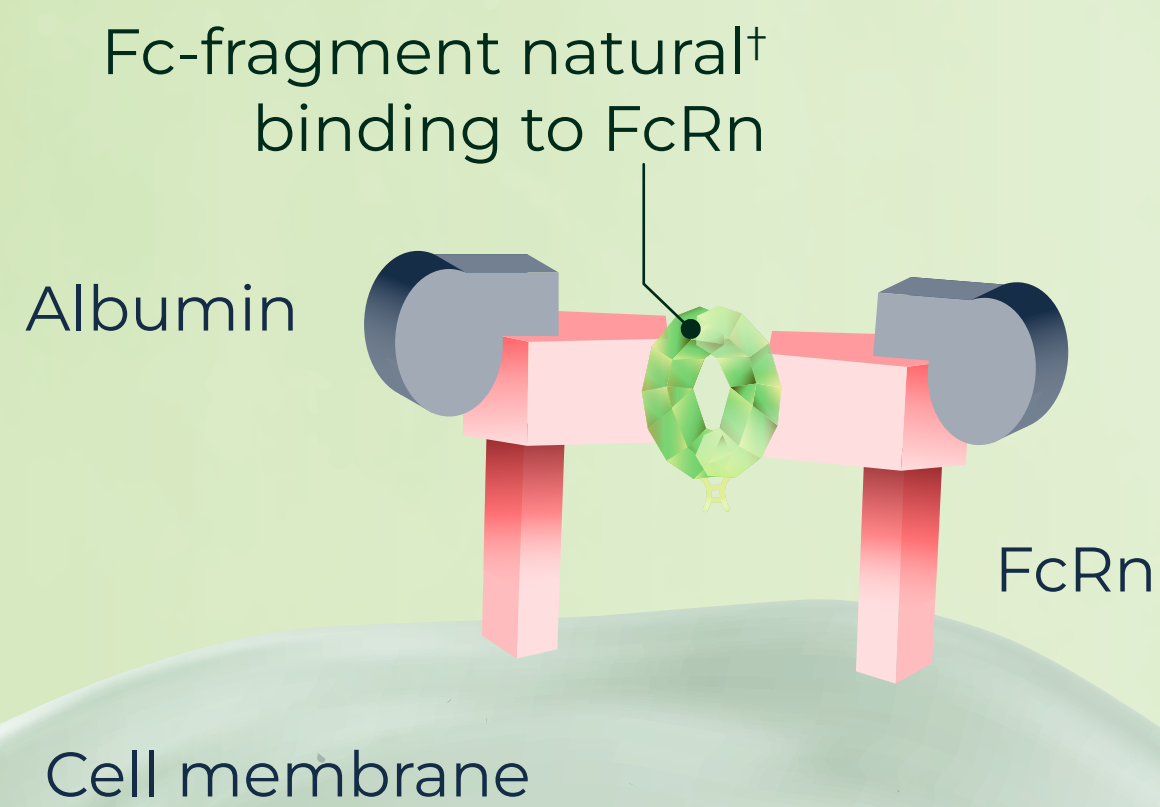
No impact on IgM, IgA, IgD, IgE levels²⁷

No impact on IgG production or cellular immunity³⁰

No decrease in FcRn levels³¹

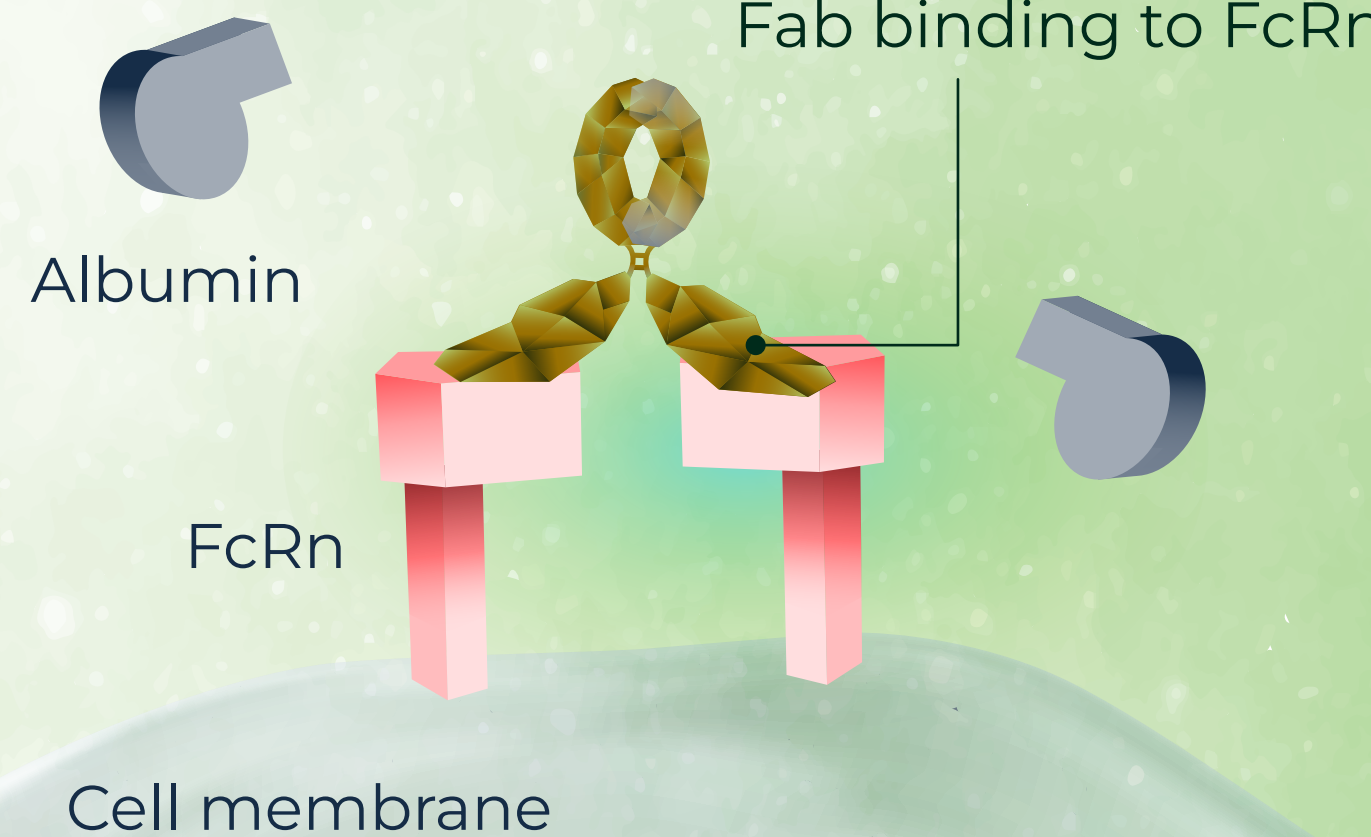
No vaccination or pre-medication required prior to treatment with efgartigimod²⁴

Efgartigimod (Fc-fragment)



No reduction in albumin or increase in cholesterol levels^{24,27,28,31}

Full-length IgG FcRn blockers



May impact albumin and cholesterol levels³²

Data (references 15 and 16) will be made available by argenx upon request. The illustrations depict cellular processes for visualization purposes and do not fully represent the complete biological situation. ▼This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information.²⁹ Healthcare professionals are asked to report any suspected adverse reactions.

*Standard therapies include: AChEi, steroids, NSiSTs, or combined therapy.¹⁹

[†]Efgartigimod mimics the binding of the Fc fragment of endogenous IgG antibodies to FcRn, retains natural pH-dependent binding, and does not impact FcRn levels.^{24,28}

ACh=acetylcholine; AChEi=acetylcholinesterase inhibitor; AChR=acetylcholine receptor; C5i=C5 inhibitor; FcRn=neonatal Fc receptor; gMG=generalized myasthenia gravis; Ig=immunoglobulin; IVIg=intravenous immunoglobulin; NMJ=neuromuscular junction; NSiST=non-steroidal immunosuppressive treatment; PLEX=plasma exchange.

1. Grob D, et al. *Muscle Nerve*. 2008;37(2):141-149; 2. Twork S, et al. *Health Qual Life Outcomes*. 2010;8:129; 3. Berrith-Akinn S, et al. *BMJ Open*. 2023;13(5):e068104; 4. Carr AS, et al. *BMC Neurol*. 2010;10:46; 5. Gilhus NE, et al. *Nat Rev Neurol*. 2016;12(5):259-268; 6. Jackson K, et al. *Neurol Ther*. 2023;12(1):107-128; 7. Law N, et al. *Neurol Ther*. 2021;10(2):103-112; 8. Johnson S, et al. *Med Sci Monit*. 2021;27:e93296; 9. DeHart-McCoy M, et al. *BMJ Med*. 2023;1(1):e000024; 10. Wierl H, et al. *Ther Adv Neurol Disord*. 2023;6(1):75286423123247; 11. Quid A, et al. *Neurol Neuroimmunol Neuroinflamm*. 2022;9(4):e169; 12. Behn A, Le Pense R. *J Neuromuscul Dis*. 2018;5(3):265-277; 13. Datta NA, et al. *Mol Immunol*. 2014;61(4):1656-1665; 14. Howard J, et al. *Lancet Neurol*. 2021;20(7):528-536; 15. Hoffmann S, et al. Oral presentation at EAN; 1-4 July 2023, Budapest, Hungary; 16. Ruck T, et al. Poster presented at EAN; 29 June-2 July 2024, Helsinki, Finland; 17. Sacca F, et al. *Eur J Neurol*. 2023;31(6):e16180; 18. Wolfe GI, et al. *eNeurologicalSci*. 2024;37(1):10054; 19. Alhaidar MK, et al. *J Clin Med*. 2022;11(6):1597; 20. Sanders DB, et al. *Neurology*. 2016;87(14):419-425; 21. Nguyen-Cao TM, et al. *J Neurol Sci*. 2019;406(1):6428; 22. Lascano AM, Lallie PH. *Autoimmun Rev*. 2021;20(1):102712; 23. Pavlovskis M, et al. *Biomedicines*. 2023;11(2):3180; 24. argenx BV. Vyvgart. Summary of Product Characteristics (SmPC). March 2025; 25. Zhu LN, et al. *Neurol Regen Res*. 2023;18(8):1637-1644; 26. Cavalcante P, et al. *Front Immunol*. 2024;15(14):1419; 27. Wolfe GI, et al. *J Neurol Sci*. 2021;430:118074; 28. Ulrichs P, et al. *J Clin Invest*. 2018;128(10):4372-4386; 29. Brinkhaus M, et al. *Nat Commun*. 2022;13(1):6073; 30. Binazon O, et al. *J Immunotoxicol*. 2025;22(1):2499934; 31. Ma G, et al. *JCI Insight*. 2024;9(10):e176166; 32. Ward ES, et al. *Front Immunol*. 2022;13:892534.

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the **VYVGART** neonatal FcRn SmPC