



Safety Profile of Intravenous Efgartigimod From Clinical Trials in Immunoglobulin G–Mediated Autoimmune Diseases

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SCAN ME

KEY TAKEAWAYS



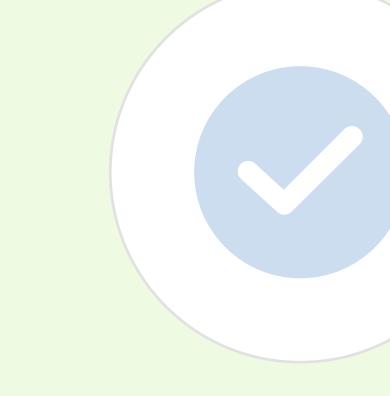
Efgartigimod, a first-in-class FcRn antagonist, has broadly demonstrated safety across multiple autoimmune conditions and 398.8 participant years of exposure in phase 3 trials



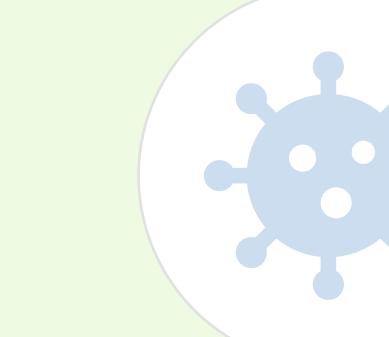
Efgartigimod reduces IgG levels via FcRn blockade and does not lead to complete removal of IgG, nor does it impact IgG production, or levels of albumin or cholesterol



Participants with various IgG-mediated autoimmune disorders demonstrated ~60% reduction in total IgG levels when treated with efgartigimod



Efgartigimod was well tolerated with comparable TEAE rates to placebo across multiple IgG-mediated autoimmune disorders, dosing regimens, and exposure times



Most TEAEs, including infections, were mild to moderate in severity, and event rate did not increase with longer exposure

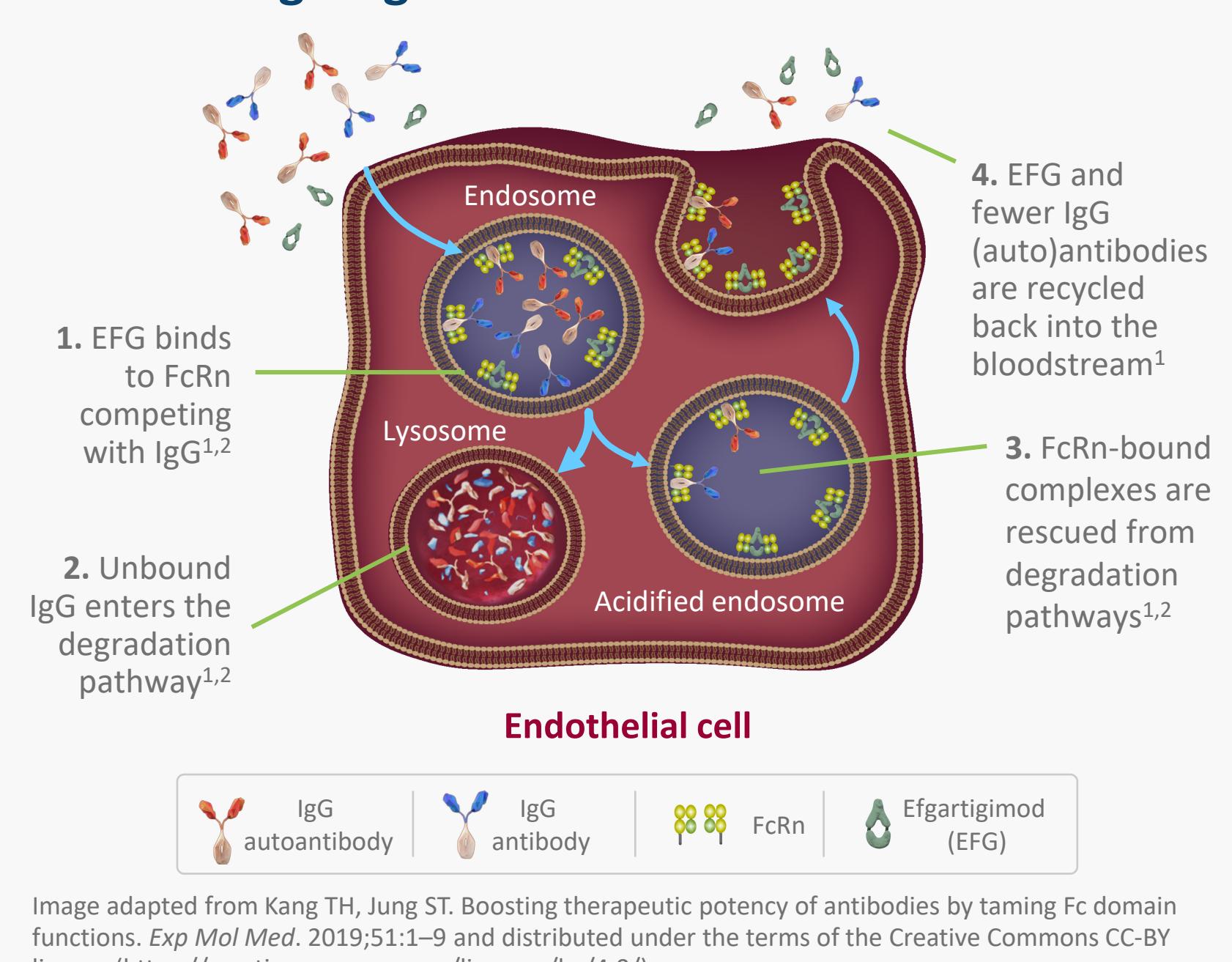
BACKGROUND



Efgartigimod: Engineered IgG1 Fc Fragment

- The neonatal Fc receptor, FcRn, recycles IgG, extending its half-life and serum concentration¹
- Efgartigimod is a human IgG1 Fc fragment, a natural ligand of FcRn, engineered for increased affinity for FcRn²
- Efgartigimod was designed to outcompete endogenous IgG, preventing recycling and promoting lysosomal degradation of IgG, without impacting its production:^{2–6}
 - Targeted reduction of all IgG subtypes
 - No impact on other immunoglobulins
 - No reduction in albumin or increase in cholesterol levels

Efgartigimod Mechanism of Action



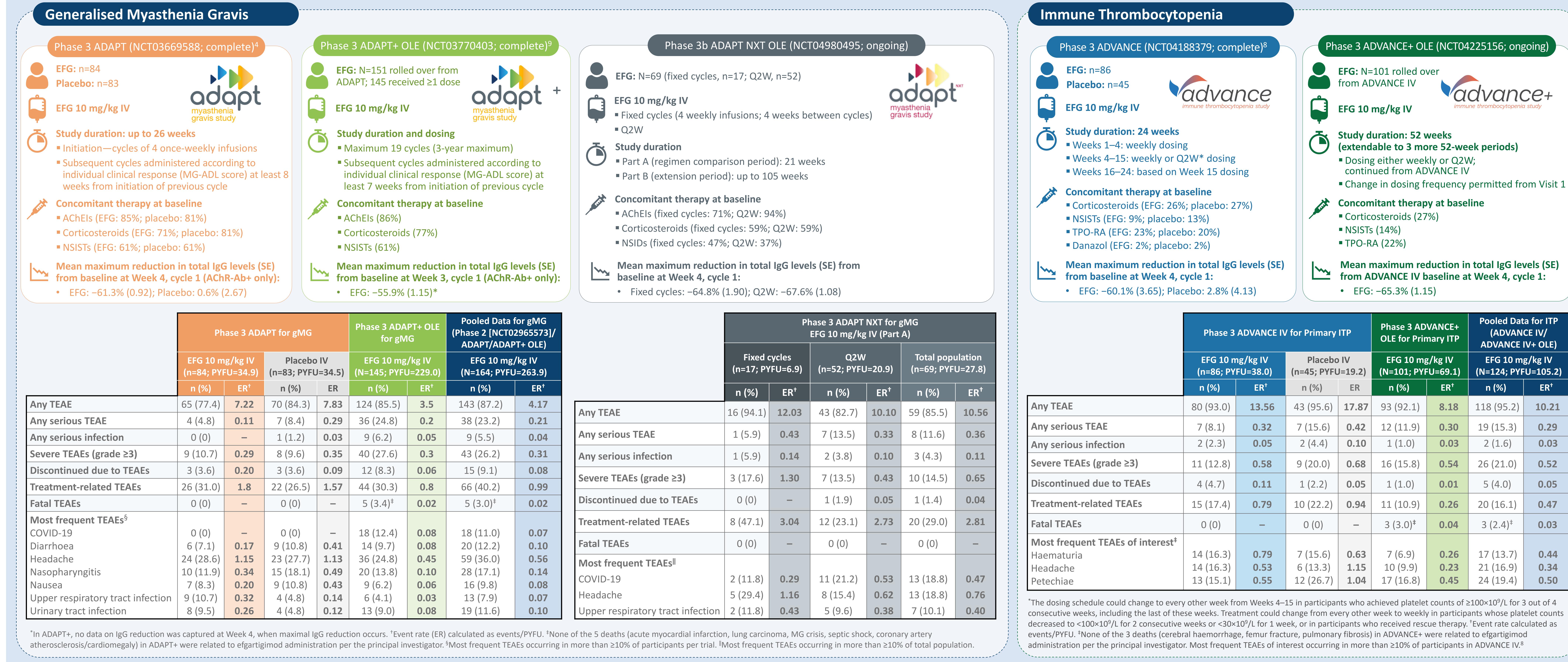
Participants treated with efgartigimod across trials in IgG-mediated disorders showed a mean maximum reduction of 55.9–67.6% in total IgG levels^{4,6–9}

Efgartigimod did not hamper generation of IgG responses but did transiently reduce IgG titers, enabling patients to retain ability to mount an immune response¹⁰

- Antigen-specific IgG responses to influenza, pneumococcal, and COVID-19 immunisation were detected in participants with gMG who received these vaccines while receiving efgartigimod

Efgartigimod is approved for the treatment of gMG in patients positive for AChR antibodies in the US, as an add-on to standard therapy in patients positive for AChR antibodies in the EMEA, and in patients with or without AChR antibodies with insufficient response to steroids or nonsteroidal immunosuppressive therapies in Japan. Efgartigimod is also approved for the treatment of primary ITP in adult patients in Japan.

RESULTS



The dosing schedule could change to every other week from Weeks 4–15 in participants who achieved platelet counts of ≥100×10⁹/L for 3 out of 4 consecutive weeks, including the last of these weeks. Treatment could change from every other week to weekly in participants whose platelet counts decreased to <100×10⁹/L for 2 consecutive weeks or <30×10⁹/L for 1 week, or in participants who received rescue therapy. [†]Event rate calculated as events/PYFU. [‡]None of the 3 deaths (cerebral haemorrhage, femur fracture, pulmonary fibrosis) in ADVANCE+ were related to efgartigimod administration per the principal investigator. Most frequent TEAEs of interest occurring in more than ≥10% of participants in ADVANCE IV.

ABBREVIATIONS

AChE, acetylcholinesterase inhibitor; AChR, acetylcholine receptor; COVID-19, coronavirus disease 2019; EFG, efgartigimod; EMEA, Europe, Middle East, and Africa; ER, event rate; Fc, fragment crystallizable; FcRn, neonatal Fc receptor; gMG, generalised myasthenia gravis; IgG, immunoglobulin G; ITP, immune thrombocytopenia; MG, Myasthenia Gravis Activities of Daily Living; NSID, nonsteroidal immunosuppressive drug; NSI, nonsteroidal immunosuppressive therapy; OLE, open-label extension; PYFU, participant-year(s) follow-up; Q2W, every 2 weeks; SE, standard error; TEAE, treatment-emergent adverse event; TPO-RA, thrombopoietin receptor agonist.

DISCLOSURES AND ACKNOWLEDGEMENTS

AM: Alexion, argenx, axunio, Grifols, Hormosan, Janssen, Merck, Novartis, Octapharma, UCB; KG: Alexion, argenx, UCB, Xeris Pharmaceuticals; CMB: Alexion, apellis, argenx, Sanofi; MG: Almirall, argenx, Biotest, GSK, Janssen, LEO Pharma, Lilly, Novartis, UCB; HM: Alexion, argenx, Chugai, Blood Products Organization, Roche, UCB; ZBC: NKFH Hungary, Orvostudóképző Szemle, Sanofi Genzyme Hungary; AN: Amgen, Angle, argenx, Dova, Novartis, Ono, Rigel, Shionogi; PU, RR, JTG, SA, and MJ: Employees of argenx; JFH: AcademicCME, Ad Scientiam, Alexion, AstraZeneca Rare Disease, argenx, Biologix Pharma, Cartesian Therapeutics, Centers for Disease Control and Prevention, CheckRare CME, F Hoffmann-La Roche Ltd, Amgen, Medscape CME, Merck EDM Serono, MGFA, Muscular Dystrophy Association, National Institutes of Health, NMD Pharma, Novartis, PCORI, PeerView CME, Physicians' Education Resource (PER) CME, PlatformQ CME, Regeneron Pharmaceuticals, Sanofi US, Toleranzia AB, UCB, Zai Lab; KGC: Alexion, Alnylam, Amicus, argenx, Biogen, CSL Behring, Ipsen, Janssen, Roche, UCB. This study was sponsored by argenx. Formatting and editing assistance was provided by Envision Pharma Group, funded by argenx. The authors gratefully acknowledge the trial participants and investigators involved in these studies.

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