



# Budget Impact of Subcutaneous Immunoglobulin, Intravenous Immunoglobulin, and Efgartigimod Alfa in Patients With Chronic Inflammatory Demyelinating Polyneuropathy in the United States

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## Introduction

- Chronic inflammatory demyelinating polyneuropathy (CIDP) is a rare, progressive autoimmune disease causing peripheral nervous system dysfunction.<sup>1</sup>
- Subcutaneous immunoglobulin (SCIG) or intravenous immunoglobulin (IVIG) therapy are recommended as an immunomodulatory agent in CIDP in the EAN/PNS guideline.<sup>2</sup>
- Efgartigimod alfa, a novel Fc receptor antagonist, is expected to become available as an additional option for CIDP patients.

## Objective

To estimate the budget impact of introducing efgartigimod alfa in a proportion of CIDP patients currently receiving SCIG and IVIG.

## Methods

- A budget impact model was developed to project, from a US integrated delivery network perspective, the costs expected with introducing efgartigimod alfa for CIDP maintenance therapy, in relation to the current standard of care consisting of IVIG and SCIG (IgPro20) treatment.
- Cost inputs included drug acquisition (pharmacy) costs, administration costs by site of care, infusion-related complications, systemic side effects, and indirect costs.<sup>3-7</sup>
- Pharmacy costs were based on a payment mix of average sales price (ASP) (73%), wholesale acquisition cost (WAC) (2%), and average wholesale price (AWP) (25%).<sup>8</sup>
- The PATH clinical study of IgPro20 maintenance was the basis for input on relapse rates at initial assessment (24 weeks) and at 52 weeks for each of its 2 doses – high dose (0.4 g/kg/bodyweight (bw), and low dose (0.2 g/kg/bw).<sup>9,10</sup>
- The ICE clinical study of IVIG maintenance therapy was the basis for input relapse rates for IVIGs.
- The recent ADHERE clinical study was used to obtain relapse rates of efgartigimod alfa.<sup>11,12</sup>

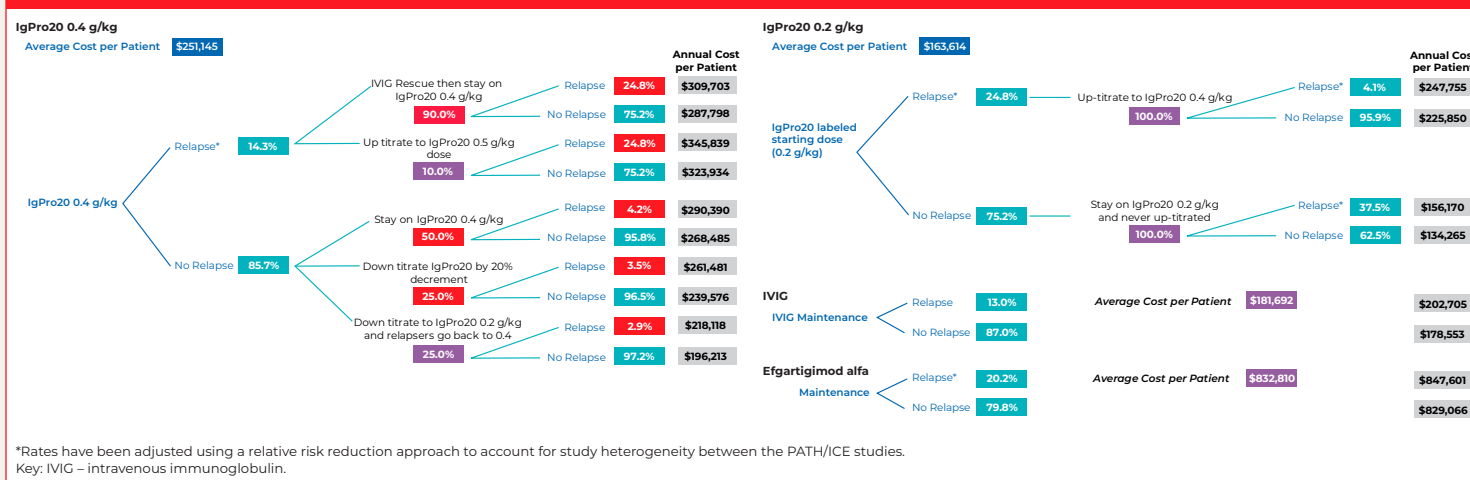
Table 1. Pharmacy costs

	IgPro20	IVIG	Efgartigimod alfa
Reimbursed average sales price (ASP)	\$12.73 (100 mg)	\$48.35 (500 mg)	\$16,050.00 (1 g)
Wholesale acquisition cost (WAC)	\$227.42 (1 g)	\$165.94 (1 g)	\$16,586.69 (1 g)
Average wholesale price (AWP)	\$211.12 (1 g)	\$154.04 (1 g)	\$15,397.45 (1 g)
<b>Average price per gram</b>	<b>\$150.24</b>	<b>\$112.42</b>	<b>\$15,897.60</b>

## Results

- For a hypothetical 25-million-member health plan, the analysis estimated, based on the prevalence of disease and IG treatment, an expected 708 patients with CIDP treated with IG.
- Figure 1** presents:
  - Patient flow for each of the treatment options for CIDP maintenance therapy
  - Associated relapse rates based on respective clinical studies and subsequent patient management, as relevant
  - Expected costs for each treatment option

Figure 1. Model structure and cost per patient



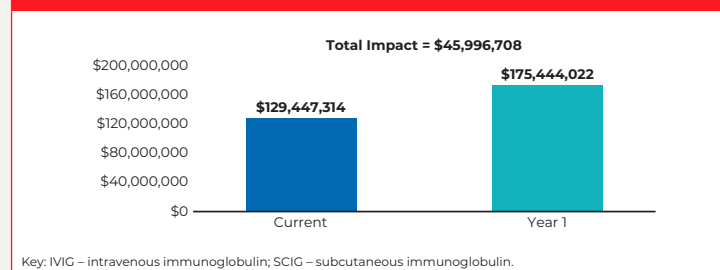
- Based on its publicly available US pricing for myasthenia gravis as translated to CIDP dosing, efgartigimod is expected to cost \$832,810 for annual cost of CIDP treatment compared to \$251,790 for the IgPro20 high dose (0.4 g/kg/bw) and \$163,929 for the IgPro20 low dose (0.2 g/kg/bw).
- Assuming a 10% uptake of efgartigimod alfa in year 1, (drawing patient share proportionally from IVIG and SCIG) yielded a total projected budget impact of \$45,996,708, a 35.5% increase.

Table 2. Total cost increase, assuming assuming a 10% uptake of efgartigimod alfa in year 1, drawing patient share proportionally from IVIG and SCIG

	Current	Year 1	Budget Impact	Percentage Change
<b>Drug costs</b>	\$106,636,966	\$154,714,897	<b>\$48,077,931</b>	<b>45.1%</b>
<b>Non-drug costs</b>	\$22,791,732	\$20,712,281	<b>-\$2,079,450</b>	<b>-9.1%</b>
<b>Total costs</b>	\$129,447,314	\$175,444,022	<b>\$45,996,708</b>	<b>35.5%</b>

Key: IVIG – intravenous immunoglobulin; SCIG – subcutaneous immunoglobulin.

Figure 2. Budget impact assuming a 10% uptake of efgartigimod alfa in year 1, drawing patient share proportionally from IVIG and SCIG



Key: IVIG – intravenous immunoglobulin; SCIG – subcutaneous immunoglobulin.

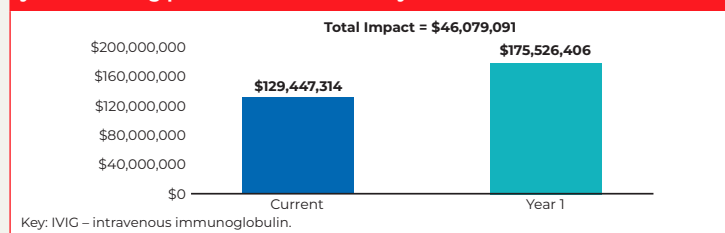
## Results cont.

- Assuming a 10% uptake of efgartigimod alfa in year 1 (drawing patient share exclusively from IVIG) led to a projected total budget impact of \$46,079,091, a 35.6% increase.

Table 3. Total cost increase, assuming a 10% uptake of efgartigimod alfa in year 1 drawing patient share exclusively from IVIG

	Current	Year 1	Budget impact	Percentage change
<b>Drug costs</b>	\$106,636,966	\$154,938,938	<b>\$48,301,972</b>	<b>45.3%</b>
<b>Non-drug costs</b>	\$22,791,732	\$20,568,851	<b>-\$2,222,881</b>	<b>-9.8%</b>
<b>Total costs</b>	\$129,447,314	\$175,526,406	<b>\$46,079,091</b>	<b>35.6%</b>

Figure 3. Budget impact assuming a 10% uptake of efgartigimod alfa in year 1 drawing patient share exclusively from IVIG



## Conclusions

- This analysis suggests that efgartigimod alfa is expected to result in substantially increased spending in treatment of CIDP. This conclusion follows from:**
  - Substantially higher publicly known price of efgartigimod alfa, as translated via dose adjustment from myasthenia gravis pricing to CIDP pricing.
  - The absence of a documented relapse management approach with efgartigimod alfa, as opposed to known relapse management outcomes documented in the PATH open-label extension study, and incorporating the cost of untreated relapses.

## References

- Bunschoten C, Jacobs BC, Van den Bergh PYK, Cornblath DR, van Doorn PA. Progress in diagnosis and treatment of chronic inflammatory demyelinating polyradiculoneuropathy. *Lancet Neurol*. 2019;18(8):784–794.
- Van den Bergh PYK, et al. *J Peripher Nerv Syst*. 2021;26:242–268.
- Red Book Online. IBM Micromedex. Copyright IBM Corporation 2023. Accessed February 5, 2025.
- Centers for Medicare and Medicaid Services (CMS). Effective October 1, 2023 through December 31, 2023 Pricing File. Accessed February 5, 2025. <https://www.cms.gov/medicare/medicare-part-b-drug-average-sales-price/2022-asp-drug-pricing-files>
- Centers for Medicare and Medicaid Services (CMS). Hospital Outpatient Prospective Patient System (OPPS). Accessed February 5, 2025. <https://www.cms.gov/license/ama?file=/files/zip/october-2023-opps-addendum-b.zip>
- Slen B. Infused therapies: cost savings benefits through home infusion. *Specialty Pharmacy Times*. 2014;5(1):24–25.
- Centers for Medicare and Medicaid Services (CMS). Physician Fee Schedule Search. Page last modified: September 6, 2023. Accessed February 5, 2025. <https://www.cms.gov/apps/physician-fee-schedule/search/search-criteria.aspx>
- AMCP. AMCP Pharmaceutical Payment Methods, 2015 Update. 2015. Accessed February 5, 2025. <https://www.amcp.org/guide-pharmaceutical-payment-methods>
- Van Schaik I, Brill V, van Geloven et al. Subcutaneous immunoglobulin for maintenance treatment in chronic inflammatory demyelinating polyneuropathy (PATH): a randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet Neurol*. 2018;17:35–46.
- Van Schaik I, Melike O, Brill V, et al. Long-term safety and efficacy of subcutaneous immunoglobulin IgPro20 in CIDP. *Neural Immunol Neuroinflamm*. 2019;6(5):e590.
- Hughes R, Donofrio P, Brill V, et al. Intravenous immune globulin (10% caprylate-chromatography purified) for the treatment of chronic inflammatory demyelinating polyradiculoneuropathy (ICE study): a randomised placebo-controlled trial. *Lancet Neurol*. 2008;7:136–144.
- argenx press release. argenx reports positive topline data from ADHERE study of Vyvgart Hytrulo in patients with chronic inflammatory demyelinating polyneuropathy. July 17, 2023. [https://www.us.argenx.com/sites/default/files/media-documents/Press-Release\\_ARGX\\_ADHERE\\_Data\\_Release.pdf](https://www.us.argenx.com/sites/default/files/media-documents/Press-Release_ARGX_ADHERE_Data_Release.pdf)

## Disclosures

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