

UTILIZATION MANAGEMENT MEDICAL POLICY

- POLICY:** Neurology – Vyvgart Hytrulo Utilization Management Medical Policy
- Vyvgart® Hytrulo (efgartigimod alfa and hyaluronidase-qvfc subcutaneous injection – Argenx/Halozyme)

REVIEW DATE: 07/17/2024

OVERVIEW

Vyvgart Hytrulo, a neonatal Fc receptor blocker, is indicated for the following use:¹

- **Chronic inflammatory demyelinating polyneuropathy (CIDP)**, treatment in adults;
- **Generalized myasthenia gravis (gMG)**, treatment of adults who are anti-acetylcholine receptor antibody-positive.

Disease Overview

CIDP

CIDP is a chronic peripheral nervous system disorder with a prevalence of approximately 60,000 individuals in the US.² People of all ages can be diagnosed with CIDP, but onset usually occurs when patients are between 48 to 60 years of age. Symptoms generally consist of symmetric weakness in both proximal and distal muscles, numbness, fatigue, ambulating difficulties, falls, fine motor impairment, and paresthesia.^{2,3} CIDP generally includes both motor and sensory dysfunction in the four limbs and it progresses over more than 8 weeks.⁴ At present, there is no established biomarker to aid in diagnosis.⁵ It is believed that an immune response directed at the components of the peripheral nerve causes demyelination and axonal damage, although the exact mechanisms are not yet clearly defined. The diagnosis of CIDP relies on clinical and electrophysiological criteria; electrodiagnostic evidence of peripheral nerve demyelination in motor nerves is required for diagnosis. Electrophysiological support is generally categorized as CIDP or possible CIDP.⁴ Supportive diagnostic criteria may include cerebral spinal fluid protein level, nerve ultrasonography, magnetic resonance neuropathy, nerve pathology, and response to treatment. Since there are no established biomarkers for CIDP, clinical assessment remains the only evaluation tool. Treatment responses vary widely from one patient to another.

gMG

Myasthenia gravis is a chronic autoimmune neuromuscular disease that causes weakness in the skeletal muscles, which are responsible for breathing and moving parts of the body, including the arms and legs.⁶ The hallmark of myasthenia gravis is muscle weakness that worsens after periods of activity and improves after periods of rest. Certain muscles such as those that control eye and eyelid movement, facial expression, chewing, talking, and swallowing are often involved in the disorder; however, the muscles that control breathing and neck and limb movements may also be affected. Acquired myasthenia gravis results from the binding of autoantibodies to components of the neuromuscular junction, most commonly the acetylcholine receptor.⁷

Dosing Information

The recommended dose of Vyvgart Hytrulo for CIDP is 1 vial (1,008 mg efgartigimod alfa/11,200 units hyaluronidase) administered subcutaneously (SC) once a week.¹

The recommended dose for gMG is 1 vial administered SC once a week for 4 weeks.¹ Subsequent treatment cycles can be administered according to clinical evaluation. The safety of initiating subsequent cycles sooner than 50 days from the start of the previous treatment cycle has not been established.

Clinical Efficacy

CIDP

The efficacy of Vyvgart Hytrulo for the treatment of adults with CIDP was established in a two stage, multicenter study.¹ The open-label phase identified responders to Vyvgart Hytrulo (Stage A) and these responders then entered a randomized, double-blind, placebo-controlled, withdrawal period (Stage B). All of the enrolled patients had a documented diagnosis of definite or probable CIDP using the European Federation of Neurological Societies/Peripheral Nerve Society (EFNS/PNS; 2010) criteria for progressing or relapsing forms. In Stage A, 322 patients received Vyvgart Hytrulo until evidence of improvement occurred at two consecutive study visits; treatment was for up to 12 weeks. Improvement was defined as an improvement of at least one point in the Inflammatory Neuropathy Cause and Treatment disability score (INCAT) [of note, efficacy of Vyvgart Hytrulo was assessed using the adjusted INCAT {aINCAT} disability score, which is identical to the INCAT disability score but with changes in the upper limb function from 0 (normal) to 1 (minor symptoms) excluded], improvement of at least 4 points on the Inflammatory Rasch-built Overall Disability Scale (I-RODS), or mean grip strength improvement of at least 8 kPa. Overall, 69% of patients (n = 221/322) who had documented improvement at two consecutive visits during Stage A entered Stage B. Patients were randomized to receive Vyvgart Hytrulo or placebo. Of the patients in Stage B, 146 patients were currently receiving standard of care and 75 patients who had either not received prior treatment for CIDP or were not treated with standard of care therapy for at least 6 months before study entry. The primary endpoint was the time to clinical deterioration defined as a 1-point increase in aINCAT at two consecutive visits or a ≥ 1 point increase in aINCAT at one visit. Patients with clinical deterioration or who completed Week 48 in Stage B without clinical deterioration were withdrawn from the placebo-controlled portion of the study. Patients who received Vyvgart Hytrulo experienced a longer time to clinical deterioration (i.e., increase of ≥ 1 point in aINCAT score) compared with patients who received placebo, which was statistically significant, as demonstrated by a hazard ratio of 0.394 (95% confidence interval [CI]: 0.253, 0.614; $P < 0.0001$).

gMG

Non-inferiority of Vyvgart Hytrulo to Vyvgart Intravenous (IV) was demonstrated in the ADAPT-SC study, where patients were randomized to either Vyvgart Hytrulo or Vyvgart IV (n = 110).⁸ The efficacy of Vyvgart IV was evaluated in a 26-week, multicenter, randomized, double-blind, placebo-controlled trial in adults with myasthenia gravis (n = 167).⁵ Among other criteria, patients were on stable doses of myasthenia gravis therapy prior to screening (e.g., acetylcholinesterase inhibitors, steroids, or non-steroidal immunosuppressive therapies), either in combination or alone. In addition, patients had a Myasthenia Gravis Foundation of America (MGFA) clinical classification class II to IV and a Myasthenia Gravis Activities of Daily Living (MG-ADL) total score of ≥ 5 . MG-ADL assesses the impact of gMG on daily functions of eight signs or symptoms that are typically impacted by this disease. Each sign or symptom is assessed on a 4-point scale; a higher score indicates greater impairment. Patients were randomized to receive Vyvgart IV or placebo. At baseline, most patients had stable doses of acetylcholinesterase inhibitors (> 80%), steroids (> 70%), and/or non-steroidal immunosuppressive therapies (about 60%). The primary efficacy endpoint was comparison of the percentage of MG-ADL responders during the first treatment cycle between treatment groups in the anti-acetylcholine receptor antibody-positive population. An MG-ADL responder was defined as a patient with a 2-point or greater reduction in the total MG-ADL score compared to the treatment cycle baseline for at least 4 consecutive weeks, with the first reduction occurring no later than 1 week after the last infusion of the cycle. Overall, 67.7% of patients who received Vyvgart IV compared with 29.7% of patients who received placebo were considered MG-ADL responders ($P < 0.0001$).

Guidelines

CIDP

Use of Vyvgart Hytrulo for CIDP is not currently addressed in guidelines. The European Academy of Neurology (EAN)/PNS updated CIDP guidelines in 2021.¹⁰ EAN/PNS strongly recommends that IV immune globulins or corticosteroids be used as initial treatment in typical CIDP and CIDP variants. Plasma exchange is strongly recommended if IV immune globulins and corticosteroids are ineffective. Guidelines also note that IV immune globulins should be considered first-line treatment in motor CIDP. For maintenance treatment, IV or SC immune globulins or corticosteroids are recommended. It is additionally recommended that if the maintenance dose is high on any of the first-line therapies, a combination of treatments or addition of an immunosuppressant may be warranted.

gMG

An international consensus guidance for the management of myasthenia gravis was published in 2016.⁷ The guidelines recommend pyridostigmine for the initial treatment in most patients with myasthenia gravis. The ability to discontinue pyridostigmine can indicate that the patient has met treatment goals and may guide the tapering of other therapies. Corticosteroids or immunosuppressant therapy should be used in all patients with myasthenia gravis who have not met treatment goals after an adequate trial of pyridostigmine. Nonsteroidal immunosuppressant agents include azathioprine, cyclosporine, mycophenolate mofetil, methotrexate, and tacrolimus. It is usually necessary to maintain some immunosuppression for many years, sometimes for life. Plasma exchange and IV immunoglobulin can be used as short-term treatments in certain patients. A 2020 update to these guidelines provides new recommendations for methotrexate, rituximab, and Soliris® (eculizumab IV infusion).¹¹ All recommendations should be considered extensions or additions to recommendations made in the initial international consensus guidance. Oral methotrexate may be considered as a steroid-sparing agent in patients with gMG who have not tolerated or responded to steroid-sparing agents. Rituximab should be considered as an early therapeutic option in patients with anti-muscle specific kinase antibody positive myasthenia gravis who have an unsatisfactory response to initial immunotherapy. Soliris should be considered in the treatment of severe, refractory, anti-acetylcholine receptor antibody positive gMG.

POLICY STATEMENT

Prior Authorization is recommended for medical benefit coverage of Vyvgart Hytrulo. Approval is recommended for those who meet the **Criteria** and **Dosing** for the listed indications. Extended approvals are allowed if the patient continues to meet the Criteria and Dosing. Requests for doses outside of the established dosing documented in this policy will be considered on a case-by-case basis by a clinician (i.e., Medical Director or Pharmacist). All approvals are provided for the duration noted below. In cases where the approval is authorized in months, 1 month is equal to 30 days. Because of the specialized skills required for evaluation and diagnosis of patients treated with Vyvgart Hytrulo as well as the monitoring required for adverse events and long-term efficacy, approval requires Vyvgart Hytrulo to be prescribed by or in consultation with a physician who specializes in the condition being treated.

Automation: None.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of Vyvgart Hytrulo is recommended in those who meet one of the following criteria:

FDA-Approved Indications

1. **Chronic Inflammatory Demyelinating Polyneuropathy (CIDP).** Approve for the duration noted below if the patient meets ONE of the following (A or B):
 - A. **Initial Therapy.** Approve for 3 months if the patient meets ALL of the following (i, ii, iii, and iv):
 - i. Patient is ≥ 18 years of age; AND
 - ii. Diagnosis of CIDP was supported by electrodiagnostic studies; AND
 - iii. Patient meets ONE of the following (a or b):
 - a) Patient has a contraindication to intravenous or subcutaneous immune globulin; OR
Note: Examples of intravenous or subcutaneous immune globulin include: Gammagard Liquid, Gammaked, Gamunex-C, Panzyga, Privigen, Hizentra, and HyQvia.
 - b) Patient meets BOTH of the following ([1] and [2]):
 - (1) Patient has previously received treatment with an intravenous or subcutaneous immune globulin; AND
Note: Examples of intravenous or subcutaneous immune globulin include: Gammagard Liquid, Gammaked, Gamunex-C, Panzyga, Privigen, Hizentra, and HyQvia.
 - (2) Patient has had inadequate efficacy or significant intolerance to an intravenous or subcutaneous immune globulin; AND
 - iv. The medication is prescribed by or in consultation with a neurologist.
 - B. **Patient is Currently Receiving Vyvgart Hytrulo.** Approve for 1 year if according to the prescriber, the patient has a clinically significant improvement in neurologic symptoms.
Note. Examples of improvement in neurologic symptoms include improvement in disability: nerve conduction study results improved or stabilized; physical examination shows improvement in neurological symptoms, strength, and sensation.

Dosing. Approve one vial (1,008 mg efgartigimod alfa and 11,200 units hyaluronidase) administered as a subcutaneous injection once weekly.

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2. **Generalized Myasthenia Gravis.** Approve if the patient meets ONE of the following (A or B):
 - A) **Initial Therapy.** Approve for 6 months if the patient meets ALL of the following (i, ii, iii, iv, v, vi, and vii):
 - i. Patient is ≥ 18 years of age; AND
 - ii. Patient has confirmed anti-acetylcholine receptor antibody-positive generalized myasthenia gravis; AND
 - iii. Patient meets BOTH of the following (a and b):
 - a) Myasthenia Gravis Foundation of America classification of II to IV; AND
 - b) Myasthenia Gravis Activities of Daily Living (MG-ADL) score of ≥ 5 ; AND
 - iv. Patient meets ONE of the following (a or b):
 - a) Patient received or is currently receiving pyridostigmine; OR
 - b) Patient has had inadequate efficacy, a contraindication, or significant intolerance to pyridostigmine; AND
 - v. Patient has evidence of unresolved symptoms of generalized myasthenia gravis; AND
Note: Examples of unresolved symptoms include difficulty swallowing, difficulty breathing, or a functional disability resulting in the discontinuation of physical activity (e.g., double vision, talking, impairment of mobility).
 - vi. Treatment cycles are no more frequent than every 50 days from the start of the previous treatment cycle; AND
 - vii. The medication is being prescribed by or in consultation with a neurologist.

- B) Patient is Currently Receiving Vyvgart Hytrulo (or Vyvgart Intravenous [efgartigimod alfa-fcab intravenous infusion]).** Approve for 1 year if the patient meets ALL of the following (i, ii, iii, and iv):
- i.** Patient is ≥ 18 years of age; AND
 - ii.** According to the prescriber, patient is continuing to derive benefit from Vyvgart Hytrulo (or Vyvgart Intravenous); AND
Note: Examples of derived benefit include reductions in exacerbations of myasthenia gravis; improvements in speech, swallowing, mobility, and respiratory function.
 - iii.** Treatment cycles are no more frequent than every 50 days from the start of the previous treatment cycle; AND
 - iv.** The medication is being prescribed by or in consultation with a neurologist.

Dosing. Approve the following dosing regimen (A and B):

- A)** One vial (1,008 mg efgartigimod alfa and 11,200 units hyaluronidase) administered as a subcutaneous injection once weekly for 4 weeks; AND.
- B)** Treatment cycles are no more frequent than every 50 days from the start of the previous treatment cycle.

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Vyvgart Hytrulo is not recommended in the following situations:

- 1. Concomitant Use with Another Neonatal Fc Receptor Blocker, a Complement Inhibitor, or a Rituximab Product.** There is no evidence to support concomitant use of Vyvgart Hytrulo with another neonatal Fc receptor blocker, a complement inhibitor, or a rituximab product.
Note: Examples of neonatal Fc receptor blockers are Rystiggo (rozanolixizumab-noli subcutaneous infusion) and Vyvgart (efgartigimod alfa-fcab intravenous infusion).
Note: Examples of complement inhibitors are Soliris (eculizumab intravenous infusion), Ultomiris (ravulizumab-cwvz intravenous infusion or subcutaneous injection), and Zilbrysq (zilucoplan subcutaneous injection).
- 2.** Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

REFERENCES

1. Vyvgart[®] Hytrulo subcutaneous injection. Boston, MA and San Diego, CA: Argenx and Halozyme; June 2024.
2. Guillain Barre Syndrome/Chronic Inflammatory Demyelinating Polyneuropathy (GBS/CIDP) Foundation International. Voice of the Patient – Chronic Inflammatory Demyelinating Polyneuropathy. August 26, 2022. Available at: [GBSCIDP-Voice-of-the-Patient-Report_Final.pdf \(gbs-cidp.org\)](https://www.gbscidp.org/voice-of-the-patient-report-final.pdf). Accessed on June 27, 2024.
3. Gogia B, Rocha Cabrero F, Khan Suheb MZ, et al. Chronic Inflammatory Demyelinating Polyradiculoneuropathy. March 4, 2024. In: StatPearls [Internet]. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK563249/>. Accessed on June 28, 2024.
4. Rajabally YA. Chronic inflammatory demyelinating polyradiculoneuropathy: current therapeutic approaches and future outlooks. *Immunotargets Ther.* 2024;13:99-110.
5. Mathey EK, Park SB, Hughes R, et al. Chronic inflammatory demyelinating polyradiculoneuropathy: from pathology to phenotype. *J Neurol Neurosurg Psychiatry.* 2015;86:973-985.
6. National Institute of Neurological Disorders and Stroke (NINDS). Myasthenia Gravis Fact Sheet. National Institutes of Health (NIH) Publication No. 17-768. Publication last updated: March 2020. Available at: https://www.ninds.nih.gov/sites/default/files/migrate-documents/myasthenia_gravis_e_march_2020_508c.pdf Accessed on July 11, 2024.
7. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidance for management of myasthenia gravis. *Neurology.* 2016;87:419–425.
8. Data on File. ADAPT-SC – Argenx. Received June 13, 2023.

9. Vyvgart® intravenous infusion [prescribing information]. Boston, MA: Argenx; May 2022.
10. Van den Bergh PY, van Doorn PA, Hadden RD, et al. European Academy of Neurology/Peripheral Nerve Society guideline on diagnosis and treatment of chronic inflammatory demyelinating polyradiculoneuropathy: report of a joint task force – second revision. *J Peripher Nerv Syst.* 2021;26(3):242-368.
11. Narayanaswami P, Sanders DB, Wolfe G, et al. International Consensus Guidance for Management of Myasthenia Gravis: 2020 Update. *Neurology.* 2021;96(3):114-122.

HISTORY

Type of Revision	Summary of Changes	Review Date
New Policy	--	07/05/2023
Selected Revision	Conditions Not Recommended for Approval: Added “Concomitant Use with Another Neonatal Fc Receptor Blocker, a Complement Inhibitor, or a Rituximab Product”. Examples of neonatal Fc receptor blockers and complement inhibitors were listed as Notes.	10/18/2023
Selected Revision	Generalized Myasthenia Gravis: “Treatment cycles are no more frequent than every 50 days from the start of the previous treatment cycle” was added to the Dosing section.	02/28/2024
Annual Revision	Chronic Inflammatory Demyelinating Polyneuropathy (CIDP): This condition and criteria for approval were added to the policy. Conditions Not Recommended for Approval, Concomitant Use with Another Neonatal Fc Receptor Blocker, a Complement Inhibitor, or a Rituximab Product: Ultomiris subcutaneous injection was removed from the Note regarding examples of complement inhibitors.	07/17/2024