

Clinical Policy: Emapalumab-lzsg (Gamifant)

Reference Number: LA.PHAR.402

Effective Date:

Last Review Date: 03.21

Line of Business: Medicaid

Coding

Implications

Revision Log

See Important Reminder at the end of this policy for important regulatory and legal information.

Description

Emapalumab-lzsg (Gamifant™) is an interferon gamma (IFN γ) blocking antibody.

FDA Approved Indication(s)

Gamifant is indicated for the treatment of adult and pediatric (newborn and older) patients with primary hemophagocytic lymphohistiocytosis (HLH) with refractory, recurrent or progressive disease or intolerance with conventional HLH therapy.

Policy/Criteria

Prior authorization is required. Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of Louisiana Healthcare Connections that Gamifant is medically necessary when the following criteria are met:

I. Initial Approval Criteria

- A. Primary Hemophagocytic Lymphohistiocytosis (must meet all):
 1. Diagnosis of primary HLH (i.e., familial (inherited) HLH);
 2. Diagnosis is confirmed based on one of the following (a, b, or c):
 - a. Genetic mutation known to cause HLH;
 - b. Family history consistent with primary HLH;
 - c. Five of the following criteria are satisfied (1-8):
 - 1) Fever;
 - 2) Splenomegaly;
 - 3) Cytopenias affecting 2 of 3 lineages in the peripheral blood (hemoglobin < 9 g/dL (or < 10 g/dL in infants), platelets < 100 x 10⁹/L, neutrophils < 1 x 10⁹/L);
 - 4) Hypertriglyceridemia (fasting TG > 3 mmol/L or ≥ 265 mg/dL) and/or hypofibrinogenemia (fibrinogen ≤ 1.5 g/L);
 - 5) Hemophagocytosis in bone marrow, spleen, or lymph nodes with no evidence of malignancy;
 - 6) Low or absent NK-cell activity;
 - 7) Ferritin ≥ 500 mcg/L;
 - 8) Soluble CD25 (sCD25; i.e. soluble IL-2 receptor) ≥ 2400 U/mL;
 3. Prescribed by or in consultation with a hematologist;

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4. **Failure of conventional HLH therapy that includes an etoposide- and dexamethasone-based regimen, unless contraindicated or clinically significant adverse effects are experienced;**
5. **Documentation of a scheduled bone marrow or hematopoietic stem cell transplantation (HSCT) or identification of a transplant donor is in process;**
6. **Dose does not exceed 10 mg/kg per dose, two doses per week.**

Approval duration: 2 months

B. Other diagnoses/indications

1. **Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): LA.PMN.53 for Medicaid.**

II. Continued Therapy

A. Primary Hemophagocytic Lymphohistiocytosis (must meet all):

1. **Currently receiving medication via Louisiana Healthcare Connections benefit or member has previously met initial approval criteria;**
2. **Member is responding positively to therapy – including but not limited to improvement in any of the following parameters:**
 - a. **Fever reduction;**
 - b. **Splenomegaly;**
 - c. **Central nervous system symptoms;**
 - d. **Complete blood count;**
 - e. **Fibrinogen and/or D-dimer;**
 - f. **Ferritin;**
 - g. **Soluble CD25 (also referred to as soluble interleukin-2 receptor) levels;**
3. **If request is for a dose increase, new dose does not exceed 10 mg/kg per dose, two doses per week.**

Approval duration: 6 months

B. Other diagnoses/indications (must meet 1 or 2):

1. **Currently receiving medication via Louisiana Healthcare Connections benefit and documentation supports positive response to therapy.**
Approval duration: Duration of request or 6 months (whichever is less); or
2. **Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): LA.PMN.53 for Medicaid.**

III. Diagnoses/Indications for which coverage is NOT authorized:

- A. **Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policy –LA.PMN.53 for Medicaid, or evidence of coverage documents.**

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

FDA: Food and Drug Administration

HLH: hemophagocytic lymphohistiocytosis

HSCT: hematopoietic stem cell transplantation

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
<u>etoposide (Toposar®)</u>	<p><u>150 mg/m² IV twice weekly for 2 weeks and then weekly for an additional 6 weeks.</u></p> <p><u>Continuation therapy from week 9 until HSCT:</u></p> <p><u>150 mg/m² every alternating second week</u></p>	<u>150 mg/m² per dose</u>
<u>dexamethasone</u>	<p><u>10 mg/m² PO or IV for 2 weeks followed by 5 mg/m² for 2 weeks, 2.5 mg/m² for 2 weeks, 1.25 mg/m² for 1 week, and 1 week of tapering</u></p> <p><u>Continuation therapy from week 9 until HSCT:</u></p> <p><u>1010 mg/m² for 3 days every second week</u></p>	<u>See dosing regimen</u>

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

None reported

Appendix D: General Information

- Overall response in the Gamifant clinical trial (NCT01818492) was evaluated using an algorithm that included the following objective clinical and laboratory parameters: fever, splenomegaly, central nervous system symptoms, complete blood count, fibrinogen and/or D-dimer, ferritin, and soluble CD25 (also referred to as soluble interleukin-2 receptor) levels.
 - Complete response was defined as normalization of all HLH abnormalities (i.e., no fever, no splenomegaly, neutrophils > 1x10⁹/L, platelets > 100x10⁹/L, ferritin < 2,000 µg/L, fibrinogen > 1.50 g/L, D-dimer < 500 ug/L, normal CNS symptoms, no worsening of sCD25 > 2-fold baseline).
 - Partial response was defined as normalization of ≥ 3 HLH abnormalities.
 - HLH improvement was defined as ≥ 3 HLH abnormalities improved by at least 50% from baseline.

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- **Gamifant is currently not indicated for the treatment of secondary HLH. Secondary HLH generally presents in adults and is triggered by autoimmune disease, infections, or cancer. Treatment for secondary HLH is focused on the triggering condition.**

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Primary HLH	1 mg/kg IV twice per week (every three to four days)	10 mg/kg/dose

VI. Product Availability

Single-dose vial: 10 mg/2 mL, 50 mg/10 mL

VII. References

1. **Gamifant Prescribing Information.** Geneva, Switzerland: Novimmune; November 2018. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/761107s000lbl.pdf. Accessed November 17, 2020.
2. **Henter JI, Samuelsson-Horne AC, Arico M, et al. Treatment of hemophagocytic lymphohistiocytosis with HLH-94 immunochemotherapy and bone marrow transplantation.** Blood 2002; 100 (7): 2367-72.
3. **Chesshyre E, Ramanan AV, Roderick MR. Hemophagocytic Lymphohistiocytosis and Infections: An update.** The Pediatric Infectious Disease Journal March 2019; 38(3): e54-e56.
4. **Bergsten E, Horne AC, Arico M, et al. Confirmed efficacy of etoposide and dexamethasone in HLH treatment: long-term results of the cooperative HLH-2004 study.** Blood 2017; 130 (25): 2728-38.
5. **Locatelli F, Jordan MB, Allen C, et al. Emapalumab in Children with Primary Hemophagocytic Lymphohistiocytosis.** N Engl J Med. 2020 May 7;382(19):1811-1822. doi: 10.1056/NEJMoa1911326. PMID: 32374962.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
C9050	Injection, emapalumab-lzsg, 1 mg
J9210	Injection, emapalumab-lzsg, 1 mg

Reviews, Revisions, and Approvals	Date
Converted corporate to local policy	03.2021

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<u>Reviews, Revisions, and Approvals</u>	<u>Date</u>

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

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