

Asparlas® (calaspargase pegol-mknl) (Intravenous)

-E-

Document Number: EOCCO-0538

Last Review Date: 08/01/2024

Date of Origin: 06/02/2020

Dates Reviewed: 06/2020, 12/2020, 12/2021, 05/2022, 12/2022, 12/2023, 08/2024

I. Length of Authorization

Coverage will be provided for 6 months and may be renewed.

II. Dosing Limits

A. Quantity Limit (max daily dose) [NDC Unit]:

- Asparlas 3,750 units per 5 mL single-dose vial: 2 vials every 21 days

B. Max Units (per dose and over time) [HCPCS Unit]:

- 750 billable units (2 vials) per 21 days

III. Initial Approval Criteria ^{1,2}

Coverage is provided in the following conditions:

- Patient is at least 1 month up to 21 years of age; **AND**
- Patient must not have a history of serious hypersensitivity reactions § with pegylated L-asparaginase therapy; **AND**
- Patient must not have a history of serious pancreatitis, severe hepatic impairment, thrombosis, or hemorrhagic events with prior L-asparaginase therapy; **AND**

Universal Criteria ¹

- Used as a component of a multi-agent chemotherapy regimen; **AND**
- Patient will receive premedication prior to administration of Asparlas to decrease the risk and severity of both infusion and hypersensitivity reactions§ (e.g., acetaminophen, an H-1 receptor blocker [such as diphenhydramine], and an H-2 receptor blocker [such as famotidine]); **AND**

Acute Lymphoblastic Leukemia (ALL) † Φ ^{1,2}

§Definition of Hypersensitivity Reactions (CTCAE v5.0) ^{4,5}

Allergic Reaction

- Grade 1: Systemic intervention not indicated

- Grade 2: Oral intervention indicated
- Grade 3: Bronchospasm; hospitalization indicated for clinical sequelae; IV intervention indicated
- Grade 4: Life-threatening consequences; urgent intervention indicated
- Grade 5: Death

Anaphylaxis

- Grade 1 or 2: N/A
- Grade 3: Symptomatic bronchospasm, with or without urticaria; parenteral intervention indicated; allergy-related edema/angioedema; hypotension
- Grade 4: Life-threatening consequences; urgent intervention indicated
- Grade 5: Death

Preferred therapies and recommendations are determined by review of clinical evidence. NCCN category of recommendation is taken into account as a component of this review. Regimens deemed equally efficacious (i.e., those having the same NCCN categorization) are considered to be therapeutically equivalent.

† FDA Approved Indication(s); ‡ Compendia Recommended Indication(s); ◊ Orphan Drug

IV. Renewal Criteria ^{1,2}

Coverage can be renewed based upon the following criteria:

- Patient continues to meet the universal and indication-specific criteria as identified in section III;
AND
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: hypersensitivity reactions (including anaphylaxis), serious thrombotic events, hemorrhage, severe hepatotoxicity, pancreatitis, etc.; **AND**
- Disease stabilization or improvement as evidenced by a complete response [CR] (e.g., morphologic, cytogenetic or molecular complete response CR), complete hematologic response or a partial response by CBC, bone marrow cytogenetic analysis, QPCR, or FISH

V. Dosage/Administration

Indication	Dose
Acute Lymphoblastic Leukemia	Administer 2,500 units/m ² intravenously given no more frequently than every 21 days
<p><i>Note: Premedicate patients 30-60 minutes prior to administration of therapy. Because of the risk of serious allergic reactions (e.g., life-threatening anaphylaxis), administer in a clinical setting with resuscitation equipment and other agents necessary to treat anaphylaxis (e.g., epinephrine, oxygen, intravenous steroids, antihistamines) and observe patients for 1 hour after administration.</i></p>	

VI. Billing Code/Availability Information

HCPCS Code:

J9118 – Injection, calaspargase pegol-mknl, 10 units: 1 billable unit = 10 units

NDC(s):

Asparlas 3,750 units/5 mL single-dose vial: 72694-0515-xx

VII. References (STANDARD)

1. Asparlas [package insert]. Boston, MA; Servier Pharmaceuticals Inc.; November 2023. Accessed June 2024.
2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) for calaspargase pegol-mknl. National Comprehensive Cancer Network, 2024. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed June 2024.
3. Silverman LB, Blonquist TM, Hunt SK, et al. Randomized Study of Pegaspargase (SS-PEG) and Calaspargase Pegol (SC-PEG) in Pediatric Patients with Newly Diagnosed Acute Lymphoblastic Leukemia or Lymphoblastic Lymphoma: Results of DFCI ALL Consortium Protocol 11-001. *Blood* 2016;128:175.
4. Stock W, Douer D, DeAngelo DJ, et al. Prevention and management of asparaginase/pegaspargase-associated toxicities in adults and older adolescents: recommendations of an expert panel. *Leuk Lymphoma* 2011;52:2237-2253.
5. Common Terminology Criteria for Adverse Events (CTCAE) v5.0. NIH National Cancer Institute: Division of Cancer Treatment & Diagnosis – Cancer Therapy Evaluation Program. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/ctc.htm#ctc_50
6. Angiolillo AL, Schore RJ, Devidas M, et al. Pharmacokinetic and pharmacodynamic properties of calaspargase pegol Escherichia coli L-asparaginase in the treatment of patients with acute lymphoblastic leukemia: results from Children’s Oncology Group study AALL07P4. *J Clin Oncol*. 2014;32(34):3874-3882.

VIII. References (ENHANCED)

- 1e. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) for Acute Lymphoblastic Leukemia. Version 1.2024. National Comprehensive Cancer Network, 2024. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are

trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed June 2024.

- 2e. Oncaspar [package insert]. Boston, MA; Servier Pharmaceuticals LLC; February 2024. Accessed June 2024.
- 3e. Erwinaze [package insert]. Palo Alto, CA; Jazz Pharmaceuticals, Inc.; December 2019. Accessed June 2024.
- 4e. Rylaze [package insert]. Palo Alto, CA; Jazz Pharmaceuticals, Inc.; April 2024. Accessed June 2024.
- 5e. Vrooman LM, Kirov II, Dreyer ZE, et al. Activity and Toxicity of Intravenous Erwinia Asparaginase Following Allergy to E. coli-Derived Asparaginase in Children and Adolescents With Acute Lymphoblastic Leukemia. *Pediatr Blood Cancer*. 2016 Feb;63(2):228-33. doi: 10.1002/pbc.25757. Epub 2015 Sep 16.
- 6e. Maese L, Rau RE, Raetz EA, et al. A phase II/III study of JZP-458 in patients with acute lymphoblastic leukemia (ALL)/lymphoblastic lymphoma (LBL) who are hypersensitive to E. coli-derived asparaginases. DOI: 10.1200/JCO.2020.38.15_suppl.TPS7568 *Journal of Clinical Oncology* 38, no. 15_suppl
- 7e. Kurre HA, Ettinger AG, Veenstra DL, et al. A pharmacoeconomic analysis of pegaspargase versus native Escherichia coli L-asparaginase for the treatment of children with standard-risk, acute lymphoblastic leukemia: the Children's Cancer Group study (CCG-1962). *J Pediatr Hematol Oncol*. 2002 Mar-Apr;24(3):175-81. doi: 10.1097/00043426-200203000-00004.
- 8e. Kurtzberg J, Asselin B, Bernstein M, et al. Polyethylene Glycol-conjugated L-asparaginase versus native L-asparaginase in combination with standard agents for children with acute lymphoblastic leukemia in second bone marrow relapse: a Children's Oncology Group Study (POG 8866). *J Pediatr Hematol Oncol*. 2011;33(8):610-616. doi:10.1097/MPH.0b013e31822d4d4e.
- 9e. Prime Therapeutics Management. Asparlas Clinical Literature Review Analysis. Last updated June 2024. Accessed June 2024.

Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 Description
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb
C83.56	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes
C83.57	Lymphoblastic (diffuse) lymphoma, spleen
C83.58	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites

ICD-10	ICD-10 Description
C83.59	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites
C91.00	Acute lymphoblastic leukemia not having achieved remission
C91.01	Acute lymphoblastic leukemia, in remission
C91.02	Acute lymphoblastic leukemia, in relapse

Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

The preceding information is intended for non-Medicare coverage determinations. Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determinations (NCDs) and/or Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. Local Coverage Articles (LCAs) may also exist for claims payment purposes or to clarify benefit eligibility under Part B for drugs which may be self-administered. The following link may be used to search for NCD, LCD, or LCA documents: <https://www.cms.gov/medicare-coverage-database/search.aspx>. Additional indications, including any preceding information, may be applied at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD/LCA): N/A

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.
J (10)	TN, GA, AL	Palmetto GBA
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC