

## Omisirge® (omidubicel-only) (Intravenous)

Document Number: IC-0707

Last Review Date: 05/05/2025

Date of Origin: 06/01/2023

Dates Reviewed: 06/2023, 01/2024, 05/2025

### I. Length of Authorization

Coverage will be provided for 1 dose only

### II. Dosing Limits

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

- 1 dose only (single-use culture containing at least  $12 \times 10^8$  live cells, which include CD34+ and CD3+ cells)

### III. Initial Approval Criteria

Coverage is provided in the following conditions:

**Umbilical cord blood transplantation (UCBT) following myeloablative conditioning in patients with hematologic malignancies to reduce the time to neutrophil recovery and incidence of infection † Φ<sup>1-3</sup>**

- Patient is at least 12 years of age; **AND**
- Patient is eligible for allogeneic hematopoietic stem cell transplant (allo-HSCT) and has not received a prior allo-HSCT; **AND**
- Patient has a diagnosis of a high-risk hematologic malignancy and is planned for an umbilical cord blood transplantation (UCBT) following myeloablative conditioning; **AND**
- Therapy is used to reduce the time to neutrophil recovery and incidence of infection; **AND**
- Patient will receive prophylactic and supportive therapies for prevention or treatment of transplant complications (e.g., GVHD, infections, etc.) according to institutional guidelines; **AND**
- Patient does not have a known allergy or hypersensitivity to any of the following:
  - Dimethyl Sulfoxide (DMSO)
  - Dextran 40
  - Gentamicin
  - Human serum albumin or bovine material; **AND**

- Patients has no readily available matched related donor (MRD), matched unrelated donor (MUD), mismatched (7/8 matched) unrelated donor (MMUD), or haploidentical (half HLA-matched) related donor

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

#### IV. Renewal Criteria <sup>1</sup>

Duration of authorization has not been exceeded (*refer to Section I*)

#### V. Dosage/Administration <sup>1</sup>

Indication	Dose
Reduce the time to neutrophil recovery and the incidence of infection following myeloablative conditioning	<ul style="list-style-type: none"> <li>• A single dose of Omisirge consists of               <ul style="list-style-type: none"> <li>– Cultured Fraction (CF): a minimum of <math>8.0 \times 10^8</math> total viable cells of which a minimum of 8.7% is CD34+ cells and a minimum of <math>9.2 \times 10^7</math> CD34+ cells, and</li> <li>– Non-cultured Fraction (NF): a minimum of <math>4.0 \times 10^8</math> total viable cells with a minimum of <math>2.4 \times 10^7</math> CD3+ cells</li> </ul> </li> <li>• The CF and NF are supplied cryopreserved separately in two bags. Omisirge requires thaw and dilution with two infusion solution (IS) bags (one IS bag for the CF, and one IS bag for the NF) prior to administration. Infusion of the NF bag should begin within 1 hour after completion of the CF infusion. For timing of dosing of each fraction, refer to section 2.2 of the prescribing information under “Planning prior to Omisirge preparation”.</li> </ul>
<ul style="list-style-type: none"> <li>– <i>For intravenous use only. Do not irradiate.</i></li> <li>– <i>Do NOT use a leukodepleting filter.</i></li> <li>– <i>Verify patient's identity upon receipt. Do NOT open the metal cassettes until time of thaw.</i></li> <li>– <i>Verify patient's identity prior to thaw and prior to infusion.</i></li> <li>– <i>Thawing should only take place immediately prior to use.</i></li> <li>– <i>Administration of Omisirge should be under the supervision of a physician experienced in treatment of hematologic malignancies, in a center with expertise in hematopoietic stem cell transplants.</i></li> </ul>	

#### VI. Billing Code/Availability Information

HCPCS code(s):

- J3590 – Unclassified biologics
- C9399 – Unclassified drugs or biologicals

NDC:

- Omisirge single-use cryopreserved cell fractions culture containing at least  $12 \times 10^8$  live cells (*At the time of cryopreservation, the CF contains a minimum of  $8.0 \times 10^8$  total viable cells with a minimum of 8.7% CD34+ cells and a minimum of  $9.2 \times 10^7$  CD34+ cells suspended in 20 mL of a cryopreservation solution containing 10% DMSO*): 73441-0800-xx

## VII. References

1. Omisirge [package insert]. Boston, MA; Gamida Cell, Inc.; January 2025. Accessed March 2025.
2. Horwitz ME, Stiff PJ, Cutler C, et al. Omidubicel vs standard myeloablative umbilical cord blood transplantation: results of a phase 3 randomized study. *Blood*. 2021 Oct 21;138(16):1429-1440. doi: 10.1182/blood.2021011719.
3. Kanate AS, Majhail NS, Savani BN, et al. Indications for Hematopoietic Cell Transplantation and Immune Effector Cell Therapy: Guidelines from the American Society for Transplantation and Cellular Therapy (ASTCT). *Transplantation and Cellular Therapy*. Volume 26, Issue 7, P1247-1256, July 2020. DOI: <https://doi.org/10.1016/j.bbmt.2020.03.002>
4. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Hematopoietic Cell Transplantation 1.2025. National Comprehensive Cancer Network, 2025. 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 Guidelines, go online to NCCN.org. Accessed March 2025.
5. Sivaraman S, Sajeev G, Song Y, et al. Clinical Outcomes Following Allogeneic Hematopoietic Cell Transplantation with Omidubicel or Other Donor Sources in Patients with Hematologic Malignancies: Comparison of Clinical Trial Results to Center for International Blood and Marrow Transplant Research Database Controls. *Blood* (2022) 140 (Supplement 1): 660–661. <https://doi.org/10.1182/blood-2022-162439>
6. Natasha Kekre, Joseph H. Antin; Hematopoietic stem cell transplantation donor sources in the 21st century: choosing the ideal donor when a perfect match does not exist. *Blood* 2014; 124 (3): 334–343. doi: <https://doi.org/10.1182/blood-2014-02-514760>

## Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 Description
Z94.81	Bone marrow transplant status

## 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