Marqibo® (vincristine sulfate liposomal) (Intravenous)

-E-

Document Number: OHSU HEALTHSERVICES-0429

Last Review Date: 02/01/2022 Date of Origin: 02/04/2019

Dates Reviewed: 02/2019, 02/2020, 02/2021, 02/2022

I. Length of Authorization

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

II. Dosing Limits

- A. Quantity Limit (max daily dose) [NDC Unit]:
 - Marqibo 5 mg/31 mL liposome injection: 8 vials every 28 days
- B. Max Units (per dose and over time) [HCPCS Unit]:
 - 40 billable units every 28 days

III. Initial Approval Criteria ¹

Coverage is provided in the following conditions:

Patient is at least 18 years of age; AND

Universal Criteria 1

 Patient does not have any pre-existing demyelinating conditions (e.g., Charcot-Marie-Tooth Syndrome); AND

Acute Lymphoblastic Leukemia (ALL) † Φ 1-3

- Used as single agent therapy; AND
- Used for second or greater relapse, or refractory disease after 2 or more anti-leukemia therapies (e.g., regimens containing doxorubicin, daunorubicin, cyclophosphamide, cytarabine, vincristine, asparaginase, clofarabine, etc.); AND
- Patient has Philadelphia chromosome-negative (Ph-) disease

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); Φ Orphan Drug

IV. Renewal Criteria¹

Coverage can be renewed based upon the following criteria:

- Patient continues to meet universal and other indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. identified in section III; AND
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include:
 extravasation tissue injury, peripheral motor and sensory neuropathy, central and autonomic
 neuropathy, myelosuppression (e.g., neutropenia, thrombocytopenia, or anemia), tumor lysis
 syndrome, constipation and bowel obstruction, severe fatigue, elevated liver function tests (ALT,
 AST, and bilirubin), etc.; AND
- Treatment response or stabilization of disease as indicated by CBC, bone marrow cytogenic analysis, QPCR, or FISH

V. Dosage/Administration ¹

Indication	Dose
Acute Lymphocytic	Administer 2.25 mg/m ² intravenously over 1 hour once every 7 days
Leukemia (ALL)	NOT for intrathecal use (intravenous use only)

VI. Billing Code/Availability Information

HCPCS Code:

- J9371 Injection, vincristine sulfate liposome, 1 mg; 1 mg = 1 billable unit
- Marqibo 5 mg/31 mL liposome injection kit: 72893-0008-xx

VII. References (STANDARD)

1. Marqibo [package insert]. East Windsor, NJ; Acrotech Biopharma LLC; June 2020. Accessed January 2022.

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- 2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) for vincristine sulfate liposomal. National Comprehensive Cancer Network, 2022. 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 January 2022.
- 3. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) for Acute Lymphoblastic Leukemia 3.2021. National Comprehensive Cancer Network, 2022. 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 January 2022.
- 4. O'Brien S, Schiller G, Lister J, et al. High-dose vincristine sulfate liposome injection for advanced, relapsed, and refractory adult Philadelphia chromosome-negative acute lymphoblastic leukemia. J Clin Oncol. 2013 Feb 20;31(6):676-83. doi: 10.1200/JCO.2012.46.2309.

VIII. References (ENHANCED)

- 1e. Kantarjian H, et al. Blinatumomab versus Chemotherapy for Advanced Acute Lymphoblastic Leukemia. N Engl J Med 2017; 376:836-847.
- 2e. Kantarjian H, et al. Inotuzumab Ozogamicin versus Standard Therapy for Acute Lymphoblastic Leukemia. N Engl J Med 2016; 375:740-753.
- 3e. Maude SL, et al. Tisagenlecleucel in Children and Young Adults with B-Cell Lymphoblastic Leukemia. N Engl J Med 2018; 378:439-448.
- 4e. Berg SL, et al. Phase II Study of Nelarabine (compound 506U78) in Children and Young Adults With Refractory T-Cell Malignancies: A Report From the Children's Oncology Group. Journal of Clinical Oncology 2005 23:15, 3376-3382.
- 5e. DeAngelo DJ, Yu D, Johnson JL, et al. Nelarabine induces complete remissions in adults with relapsed or refractory T-lineage acute lymphoblastic leukemia or lymphoblastic lymphoma: Cancer and Leukemia Group B study 19801. Blood. 2007;109(12):5136-42.
- 6e. Faderl S, et al. Augmented hyper-CVAD based on dose-intensified vincristine, dexamethasone, and asparaginase in adult acute lymphoblastic leukemia salvage therapy. Clin Lymphoma Myeloma Leuk. 2011 Feb;11(1):54-9.
- 7e. Jeha S, et al. Phase II Study of Clofarabine in Pediatric Patients With Refractory or Relapsed Acute Lymphoblastic Leukemia. Journal of Clinical Oncology 2006 24:12, 1917-1923.
- 8e. Hijiya N, Thomson B, Isakoff MS, et al. Phase 2 trial of clofarabine in combination with etoposide and cyclophosphamide in pediatric patients with refractory or relapsed acute lymphoblastic leukemia. Blood. 2011;118(23):6043-9.

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- 9e. Pigneux A, et al. Clofarabine Combinations in Adults with Refractory/Relapsed Acute Lymphoblastic Leukemia (ALL): A GRAALL Report. Blood. 2011;118:2586.
- 10e. Weiss MA, et al. A single, high dose of idarubicin combined with cytarabine as induction therapy for adult patients with recurrent or refractory acute lymphoblastic leukemia. Cancer. 2002;95(3);581-587.
- 11e. Martinelli G, et al. Complete Hematologic and Molecular Response in Adult Patients With Relapsed/Refractory Philadelphia Chromosome—Positive B-Precursor Acute Lymphoblastic Leukemia Following Treatment With Blinatumomab: Results From a Phase II, Single-Arm, Multicenter Study. Journal of Clinical Oncology 2017 35:16, 1795-1802.
- 12e. Benjamini O, Dumlao TL, Kantarjian H, et al. Phase II trial of hyper CVAD and dasatinib in patients with relapsed Philadelphia chromosome positive acute lymphoblastic leukemia or blast phase chronic myeloid leukemia. Am J Hematol. 2014;89(3):282-7.
- 13e. Shah BD, Ghobadi A, Oluwole OO, et al. KTE-X19 for relapsed or refractory adult B-cell acute lymphoblastic leukaemia: phase 2 results of the single-arm, open-label, multicentre ZUMA-3 study. Lancet. 2021 Aug 7;398(10299):491-502. doi: 10.1016/S0140-6736(21)01222-8. Epub 2021 Jun 4.
- 14e. Magellan Health, Magellan Rx Management. Marqibo Clinical Literature Review Analysis. Last updated January 2022. Accessed January 2022.

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	
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	

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

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 Determination (NCD), Local Coverage Determinations (LCDs), and Local Coverage Articles (LCAs) may exist and compliance with these policies is required where applicable. They can be found at: https://www.cms.gov/medicare-coverage-database/search.aspx. Additional indications may be covered 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, LLC	
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC	
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	кү, он	CGS Administrators, LLC	