

# Blincyto® (blinatumomab) (Intravenous)

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## I. Length of Authorization <sup>1,9-11</sup>

- Relapsed or refractory disease (single agent):
  - Initial coverage will be provided for 30 weeks for a total of five cycles (2 cycles of induction followed by 3 cycles of consolidation)
  - Continued coverage will be provided every 24 weeks for a maximum of two additional authorizations (4 cycles of continued therapy)
- Relapsed or refractory disease (as a component of COG ALL1331 regimen):
  - Coverage will be provided every 56 days for a maximum of 3 cycles
- Consolidation therapy (single agent) (Adult and Pediatric)
  - Coverage will be provided for 42 days
- MRD+ (Pediatric):
  - Coverage will be provided for 24 weeks for a total of four cycles (1 cycle of induction followed by 3 cycles of consolidation)
- Infant ALL in combination with an Interfant regimen:
  - Coverage will be provided for 28 days

## II. Dosing Limits

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

- Blincyto 35 mcg powder for injection: 28 vials per 42 day supply

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

- Acute Lymphoblastic Leukemia (ALL) (Adult/Pediatric)  
Cycle 1 – 5 (Induction/Consolidation)

- 980 billable units per 42 days
- Cycle 6 – 9 (Continued Therapy)
- 980 billable units per 84 days

### III. Initial Approval Criteria <sup>1</sup>

Coverage is provided in the following conditions:

#### Universal Criteria <sup>1</sup>

- Patient has not received a live vaccine within 2 weeks prior to initiating therapy and will not receive concurrent treatment with live vaccine while on therapy; **AND**

#### Acute Lymphoblastic Leukemia (ALL) – Adult † ‡ Φ <sup>1,2,6e,7e</sup>

- Patient is at least 18 years of age\*; **AND**
- Patient has B-cell precursor ALL; **AND**
  - Patient has positive minimal residual disease (MRD+) greater than or equal to 0.1% †; **AND**
    - Used as a single agent for patients in first or second complete remission (CR); **OR**
  - Used as consolidation therapy; **AND**
    - Used as a single agent as part of multiphase chemotherapy for Philadelphia chromosome-negative (Ph-) disease †; **AND**
    - Patient has minimal disease negative (MRD-); **OR**
  - Patient has relapsed or refractory disease; **AND**
    - Used as a single agent for Ph+ disease; **AND**
      - Patient was relapsed or refractory to at least one second-generation or later TKI (e.g., dasatinib, nilotinib, bosutinib, ponatinib); **OR**
      - Patient was intolerant to a second-generation or later TKI AND intolerant or refractory to imatinib; **OR**
    - Used as a single agent for Ph- disease

*\*NCCN recommendations for ALL may be applicable to adolescent and young adult (AYA) patients within the age range of 15-39 years.*

#### Pediatric Acute Lymphoblastic Leukemia (ALL) † ‡ Φ <sup>1,2,6</sup>

- Patient is at least 1 month of age; **AND**
  - Used as a single agent; **AND**
    - Patient has B-cell precursor ALL; **AND**
      - Patient has minimal residual disease positive (MRD+) ALL †; **AND**
        - Patient is in first or second complete remission with MRD greater than or equal to 0.1%; **OR**
        - Used after consolidation therapy for Ph- disease; **OR**

- Patient has relapsed or refractory disease †; **AND**
  - Patient has Ph- disease; **OR**
  - Patient has Ph+ disease intolerant/refractory to TKI; **OR**
- Used in the consolidation phase of multiphase chemotherapy for Ph- disease †; **AND**
  - Patient has minimal residual disease negative (MRD-); **OR**
- Used as a component of COG AALL1331 regimen; **AND**
  - Patient has B-cell precursor ALL; **AND**
  - Patient has relapsed or refractory disease; **AND**
    - Patient has Ph- disease; **OR**
- Used in combination with an Interfant regimen (e.g., Interfant-06, Interfant-99, etc.) for infant ALL with KMT2A status (11q23) rearranged

*\*NCCN recommendations for Pediatric ALL may be applicable to certain adolescent and young adult (AYA) patients up to 30 years of age.*

**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); ‡ Compendium Recommended Indication(s); Ⓞ Orphan Drug

#### IV. **Renewal Criteria** <sup>1,2,9,10</sup>

Coverage may be renewed based upon the following criteria:

- Patient continues to meet the 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: Cytokine Release Syndrome (CRS), neurological toxicities [including Immune Effector Cell-Associated Neurotoxicity (ICANS)], serious infections, pancreatitis, tumor lysis syndrome (TLS), neutropenia/febrile neutropenia, elevated liver enzyme, leukoencephalopathy, etc.; **AND**
- Treatment response or stabilization of disease as indicated by CBC, bone marrow cytogenic analysis, QPCR, or FISH; **AND**

##### **Acute Lymphoblastic Leukemia (Adult/Pediatric) – Relapsed or refractory disease (single agent)**

- Patient has not exceeded 4 cycles of continued therapy or 9 total cycles of therapy

##### **Pediatric Acute Lymphoblastic Leukemia – Relapsed or refractory disease (as a component of COG ALL1331 regimen)**

- Patient has not exceeded 3 cycles of therapy

**Acute Lymphoblastic Leukemia (Adult/Pediatric) – Consolidation therapy (single agent)**

- Coverage may not be renewed

**Pediatric Acute Lymphoblastic Leukemia – MRD+**

- Coverage may not be renewed

**Pediatric Acute Lymphoblastic Leukemia – With an Interfant regimen**

- Coverage may not be renewed

**V. Dosage/Administration <sup>1,9-11,14,15</sup>**

Indication	Dose
Adult ALL	<p><b><u>MRD+ Disease</u></b></p> <ul style="list-style-type: none"> <li>➤ Weight greater than or equal to 45 kg               <ul style="list-style-type: none"> <li>– <u>Cycle 1 (induction):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in a 42-day cycle</li> </ul> </li> <li>– <u>Cycles 2-4 (consolidation):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in a 42 day cycle</li> </ul> </li> </ul> </li> <li>➤ Weight less than 45 kg               <ul style="list-style-type: none"> <li>– <u>Cycle 1 (induction):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 2-4 (consolidation):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle</li> </ul> </li> </ul> </li> </ul> <p><i>*Up to 4 total cycles of therapy</i></p> <hr/> <p><b><u>Relapsed/Refractory Disease*</u></b></p> <ul style="list-style-type: none"> <li>➤ Weight greater than or equal to 45 kg               <ul style="list-style-type: none"> <li>– <u>Cycle 1 (induction):</u> <ul style="list-style-type: none"> <li>• 9 mcg daily x 7 days, then 28 mcg daily x 21 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 2-5 (induction/consolidation):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in a 42 day cycle.</li> </ul> </li> <li>– <u>Cycles 6-9 (continued therapy):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in an 84 day cycle.</li> </ul> </li> </ul> </li> <li>➤ Weight less than 45 kg               <ul style="list-style-type: none"> <li>– <u>Cycle 1(induction) :</u> <ul style="list-style-type: none"> <li>• 5 mcg/m<sup>2</sup>/day (not to exceed 9 mcg/day) x 7 days, then 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 21 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 2-5 (induction/consolidation):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle.</li> </ul> </li> <li>– <u>Cycles 6-9 (continued therapy):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in an 84 day cycle.</li> </ul> </li> </ul> </li> </ul> <p><i>*Up to 9 total cycles of therapy.</i></p>

	<p><b><u>Consolidation Therapy* (single agent):</u></b></p> <ul style="list-style-type: none"> <li>➤ Weight greater than or equal to 45 kg <ul style="list-style-type: none"> <li>– 28 mcg daily x 28 days in a 42-day cycle</li> </ul> </li> <li>➤ Weight less than 45 kg</li> </ul> <p>15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle</p>
Pediatric ALL	<p><b><u>Relapsed/Refractory Disease:</u></b></p> <p><u>Used as a single agent*:</u></p> <ul style="list-style-type: none"> <li>➤ Weight greater than or equal to 45 kg <ul style="list-style-type: none"> <li>– <u>Cycle 1 (induction):</u> <ul style="list-style-type: none"> <li>• 9 mcg daily x 7 days, then 28 mcg daily x 21 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 2-5 (induction/consolidation):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 6-9 (continued therapy):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in an 84 day cycle</li> </ul> </li> </ul> </li> <li>➤ Weight less than 45 kg <ul style="list-style-type: none"> <li>– <u>Cycle 1 (induction) :</u> <ul style="list-style-type: none"> <li>• 5 mcg/m<sup>2</sup>/day (not to exceed 9 mcg/day) x 7 days, then 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 21 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 2-5 (induction/consolidation):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 6-9 (continued therapy):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in an 84 day cycle</li> </ul> </li> </ul> </li> </ul> <p><u>Used as a component of COG AALL1331 regimen:</u></p> <ul style="list-style-type: none"> <li>– <u>Cycles 1-3 (continuation and maintenance therapy):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day x 28 days in a 56 day cycle</li> </ul> </li> </ul> <p><i>*Up to 9 total cycles of therapy.</i></p> <p><b><u>Consolidation Therapy (single agent)</u></b></p> <ul style="list-style-type: none"> <li>➤ Weight greater than or equal to 45 kg <ul style="list-style-type: none"> <li>– 28 mcg daily x 28 days in a 42-day cycle</li> </ul> </li> <li>➤ Weight less than 45 kg <ul style="list-style-type: none"> <li>– 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle</li> </ul> </li> </ul> <p><b><u>MRD+ (single agent)*</u></b></p> <ul style="list-style-type: none"> <li>➤ Weight greater than or equal to 45 kg <ul style="list-style-type: none"> <li>– <u>Cycle 1 (induction):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in a 42-day cycle</li> </ul> </li> <li>– <u>Cycles 2-4 (consolidation):</u> <ul style="list-style-type: none"> <li>• 28 mcg daily x 28 days in a 42 day cycle</li> </ul> </li> </ul> </li> <li>➤ Weight less than 45 kg <ul style="list-style-type: none"> <li>– <u>Cycle 1 (induction):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle</li> </ul> </li> <li>– <u>Cycles 2-4 (consolidation):</u> <ul style="list-style-type: none"> <li>• 15 mcg/m<sup>2</sup>/day (not to exceed 28 mcg/day) x 28 days in a 42 day cycle</li> </ul> </li> </ul> </li> </ul>

	<i>*Up to 4 total cycles of therapy.</i>
	<b><u>In Combination with an Interfant Regimen (Infant ALL):</u></b> 15 mcg/m <sup>2</sup> /day (not to exceed 28 mcg/day) x 28 days

## VI. Billing Code/Availability Information

### HCPCS Code:

- J9039 – Injection, blinatumomab, 1 microgram; 1 billable unit = 1 microgram

### NDC:

- Blincyto 35 mcg single-dose powder for injection: 55513-0160-xx

## VII. References (STANDARD)

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2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) blinatumomab. 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.
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10. Advani AS, Moseley A, O'Dwyer KM, et al. SWOG 1318: A Phase II Trial of Blinatumomab Followed by POMP Maintenance in Older Patients With Newly Diagnosed Philadelphia Chromosome-Negative B-Cell Acute Lymphoblastic Leukemia. *J Clin Oncol*. 2022 May 10;40(14):1574-1582.
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## VIII. References (ENHANCED)

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- 7e. Brown PA, Ji L, Xu X, et al. A Randomized Phase 3 Trial of Blinatumomab Vs. Chemotherapy As Post-Reinduction Therapy in High and Intermediate Risk (HR/IR) First Relapse of B-Acute Lymphoblastic Leukemia (B-ALL) in Children and Adolescents/Young Adults (AYAs) Demonstrates Superior Efficacy and Tolerability of Blinatumomab: A Report from Children's Oncology Group Study AALL1331. *Blood* 2019; 134 (Supplement\_2): LBA-1. doi: <https://doi.org/10.1182/blood-2019-132435>.
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## 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

## 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