Clinical Policy: Inotuzumab Ozogamicin (Besponsa)
Reference Number: CP.PHAR.359
Effective Date: 09.26.17
Last Review Date: 11.18
Line of Business: Medicaid, HIM-Medical Benefit

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

Description
Inotuzumab ozogamicin (Besponsa™) is a CD22-directed antibody-drug conjugate.

FDA Approved Indication(s)
Besponsa is indicated for the treatment of adults with relapsed or refractory B-cell precursor acute lymphoblastic leukemia (ALL).

Policy/Criteria
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 health plans affiliated with Centene Corporation® that Besponsa is medically necessary when the following criteria are met:

I. Initial Approval Criteria
   A. B-Cell Precursor Acute Lymphoblastic Leukemia (must meet all):
      1. Diagnosis of relapsed or refractory B-cell ALL;
      2. Prescribed by or in consultation with an oncologist or hematologist;
      3. Age ≥ 18 years;
      4. B-cell ALL is CD22 positive;
      5. Disease meets one of the following (a or b):
         a. Philadelphia chromosome-negative;
         b. Philadelphia chromosome-positive and intolerant or refractory to tyrosine kinase inhibitor therapy (e.g., imatinib, Sprycel®, Tasigna®, Bosulif®, Iclusig®);
*Prior authorization is (or may be) required for tyrosine kinase inhibitor therapy
      6. Besponsa is prescribed as single-agent therapy;
      7. Dose does not exceed 1.8 mg/m² per cycle (0.8 mg/m² per dose).
   Approval duration: Up to 6 cycles total

   B. Other diagnoses/indications
      1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PHAR.21 for health insurance marketplace and CP.PMN.53 for Medicaid.

II. Continued Therapy
   A. B-Cell Precursor Acute Lymphoblastic Leukemia (must meet all):
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1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Besponsa for a covered indication and has received this medication for at least 30 days;
2. Member is responding positively to therapy;
3. Member has not received ≥ 6 cycles of Besponsa;
4. If request is for a dose increase, new dose does not exceed 1.8 mg/m² per cycle (0.8 mg/m² per dose).

Approval duration: Up to 6 cycles total

B. Other diagnoses/indications (must meet 1 or 2):
1. Currently receiving medication via Centene 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 for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PHAR.21 for health insurance marketplace and CP.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 policies – HIM.PHAR.21 for health insurance marketplace and CP.PMN.53 for Medicaid or evidence of coverage documents.

IV. Appendices/General Information
Appendix A: Abbreviation/Acronym Key
ALL: acute lymphoblastic leukemia
CR: complete remission
CRi: complete remission with incomplete hematologic recovery
FDA: Food and Drug Administration
HSCT: hematopoietic stem cell transplant

Appendix B: Therapeutic Alternatives
This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

<table>
<thead>
<tr>
<th>Drug Name</th>
<th>Dosing Regimen</th>
<th>Dose Limit/Maximum Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>imatinib (Gleevec®)</td>
<td>600 mg PO QD</td>
<td>600 mg/day</td>
</tr>
<tr>
<td>Sprycel (dasatinib)</td>
<td>140 mg PO QD</td>
<td>180 mg/day</td>
</tr>
<tr>
<td>Tasigna (nilotinib)</td>
<td>400 mg PO BID</td>
<td>800 mg/day</td>
</tr>
<tr>
<td>Bosulif (bosutinib)</td>
<td>400-500 mg PO QD</td>
<td>600 mg/day</td>
</tr>
<tr>
<td>Iclusig (ponatinib)</td>
<td>45 mg PO QD</td>
<td>45 mg/day</td>
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</table>

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

- Contraindication(s): none reported
- Boxed warning(s): hepatotoxicity, including hepatic venoocclusive disease; increased risk of post-HSCT non-relapse mortality

V. Dosage and Administration

<table>
<thead>
<tr>
<th>Indication</th>
<th>Dosing Regimen</th>
<th>Maximum Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-cell ALL</td>
<td>If proceeding to hematopoietic stem cell transplant (HSCT):</td>
<td>1.8 mg/m² per cycle (0.8 mg/m² per dose)</td>
</tr>
<tr>
<td></td>
<td>• The recommended duration is 2 cycles. A third cycle may be considered for those patients who do not achieve a complete remission* (CR) or complete remission with incomplete hematologic recovery* (CRi) and minimal residual disease negativity after 2 cycles.</td>
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<tr>
<td></td>
<td>If not proceeding to HSCT:</td>
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</tr>
<tr>
<td></td>
<td>• Additional cycles of treatment, up to a maximum of 6 cycles, may be administered.</td>
<td></td>
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<tr>
<td>Cycle details:</td>
<td>Pre-medication is recommended before each dose.</td>
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</tr>
<tr>
<td></td>
<td>• For the first cycle: 1.8 mg/m² per cycle, administered as 3 divided doses on Day 1 (0.8 mg/m²), Day 8 (0.5 mg/m²), and Day 15 (0.5 mg/m²). Cycle 1 is 3 weeks in duration, but may be extended to 4 weeks if the patient achieves CR or CRi, and/or to allow recovery from toxicity.</td>
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<td></td>
<td>• For subsequent cycles:</td>
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<tr>
<td></td>
<td>o In patients who achieve a CR or CRi, 1.5 mg/m² per cycle, administered as 3 divided doses on Day 1 (0.5 mg/m²), Day 8 (0.5 mg/m²), and Day 15 (0.5 mg/m²). Subsequent cycles are 4 weeks in duration. OR</td>
<td></td>
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<td></td>
<td>o In patients who do not achieve a CR or CRi, 1.8 mg/m² per cycle given as 3 divided doses on Day 1 (0.8 mg/m²), Day 8 (0.5 mg/m²), and Day 15 (0.5 mg/m²). Subsequent cycles are 4 weeks in duration.</td>
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<tr>
<td></td>
<td>o Patients who do not achieve a CR or CRi within 3 cycles should discontinue treatment.</td>
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</tr>
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</table>

*CR (complete remission) is defined as < 5% blasts in the bone marrow and the absence of peripheral blood leukemic blasts, full recovery of peripheral blood counts (platelets ≥ 100 × 10⁹/L and absolute neutrophil counts [ANC] ≥ 1 × 10⁹/L) and resolution of any extramedullary disease.

*CRi (complete remission with incomplete hematologic recovery) is defined as < 5% blasts in the bone marrow and the absence of peripheral blood leukemic blasts, incomplete recovery of peripheral blood counts (platelets < 100 × 10⁹/L and/or ANC < 1 × 10⁹/L) and resolution of any extramedullary disease.

VI. Product Availability

Single-dose vial, powder for reconstitution: 0.9 mg
VII. References

<table>
<thead>
<tr>
<th>Reviews, Revisions, and Approvals</th>
<th>Date</th>
<th>P&amp;T Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy created.</td>
<td>09.26.17</td>
<td>11.17</td>
</tr>
<tr>
<td>4Q 2018 annual review: no significant changes; HIM-Medical added; added hematologist prescriber option, added continuity of care language to Section II; references reviewed and updated.</td>
<td>07.12.18</td>
<td>11.18</td>
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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. The Health Plan 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. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise
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professional medical judgment in providing the most appropriate care, and are solely responsible
for the medical advice and treatment of members. This clinical policy is not intended to
recommend treatment for members. Members should consult with their treating physician in
connection with diagnosis and treatment decisions.

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herein through the terms of their contracts. Where no such contract exists, providers, members
and their representatives agree to be bound by such terms and conditions by providing services to
members and/or submitting claims for payment for such services.

Note:
For Medicaid members, when state Medicaid coverage provisions conflict with the coverage
provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please
refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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