Clinical Policy: Olaparib (Lynparza)
Reference Number: CP.PHAR.360
Effective Date: 10.03.17
Last Review Date: 02.20
Line of Business: Commercial, HIM, Medicaid

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

Description
Olaparib (Lynparza®) is a poly (ADP-ribose) polymerase (PARP) inhibitor.

FDA Approved Indication(s)
Lynparza is indicated for the:
- Maintenance treatment of adult patients with deleterious or suspected deleterious germline or somatic BRCA-mutated (gBRCAm or sBRCAm) advanced epithelial ovarian, fallopian tube or primary peritoneal cancer who are in complete or partial response to first-line platinum-based chemotherapy. Select patients for therapy based on an FDA-approved companion diagnostic for Lynparza
- Treatment of adult patients with deleterious or suspected deleterious germline BRCA-mutated (gBRCAm) advanced ovarian cancer who have been treated with three or more prior lines of chemotherapy. Select patients for therapy based on an FDA-approved companion diagnostic for Lynparza
- Maintenance treatment of adult patients with recurrent epithelial ovarian, fallopian tube or primary peritoneal cancer, who are in a complete or partial response to platinum-based chemotherapy
- Treatment of patients with deleterious or suspected deleterious gBRCAm, human epidermal growth factor receptor 2 (HER2)-negative metastatic breast cancer who have previously been treated with chemotherapy in the neoadjuvant, adjuvant or metastatic setting. Patients with hormone receptor (HR)-positive breast cancer should have been treated with a prior endocrine therapy or be considered inappropriate for endocrine treatment. Select patients for therapy based on an FDA-approved companion diagnostic for Lynparza
- For the maintenance treatment of adult patients with deleterious or suspected deleterious gBRCAm metastatic pancreatic adenocarcinoma whose disease has not progressed on at least 16 weeks of a first-line platinum-based chemotherapy regimen. Select patients for therapy based on an FDA-approved companion diagnostic for Lynparza.

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 Lynparza is medically necessary when the following criteria are met:

I. Initial Approval Criteria
   A. Ovarian Cancer (must meet all):
1. Diagnosis of epithelial ovarian, fallopian tube, or primary peritoneal cancer;
2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years;
4. One of the following (a, b or c):
   a. Both i and ii:
      i. Documentation of deleterious or suspected deleterious germline BRCA mutation;
      ii. Failure of ≥ 3 lines of platinum-based chemotherapy (see Appendix B), unless contraindicated or clinically significant adverse effects are experienced;
   b. Completed ≥ 2 platinum-based chemotherapy regimens and is in a complete or partial response;
   c. Both i and ii:
      i. Documentation of deleterious or suspected deleterious germline or somatic BRCA-mutation;
      ii. Completed a platinum-based chemotherapy regimen and is in a complete or partial response;
5. Request meets one of the following (a or b):*
   a. Dose does not exceed 600 mg per day;
   b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).
*Prescribed regimen must be FDA-approved or recommended by NCCN

Approval duration:
Medicaid/HIM – 6 months
Commercial – Length of Benefit

B. Breast Cancer (must meet all):
1. Diagnosis of breast cancer;
2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years;
4. Disease has all of the following characteristics (a, b, and c):
   a. HER2-negative;
   b. Mutations in the BRCA genes;
   c. Metastatic or recurrent;
5. Request meets one of the following (a or b):*
   a. Dose does not exceed 600 mg per day;
   b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).
*Prescribed regimen must be FDA-approved or recommended by NCCN

Approval duration:
Medicaid/HIM – 6 months
Commercial – Length of Benefit

C. Pancreatic Adenocarcinoma (must meet all):
1. Diagnosis of pancreatic adenocarcinoma;
2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years;
4. Documentation of deleterious or suspected deleterious germline BRCA mutation;
5. Received > 16 weeks of platinum-based chemotherapy with no disease progression;
6. Request meets one of the following (a or b):*
   a. Dose does not exceed 600 mg per day;
   b. Dose is supported by practice guidelines or peer-reviewed literature for the
      relevant off-label use (*prescriber must submit supporting evidence*).

*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration:**
Medicaid/HIM – 6 months
Commercial – Length of Benefit

D. 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): CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance
   marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. All Indications in Section I (must meet all):
   1. Currently receiving medication via Centene benefit or documentation supports that
      member is currently receiving Lynparza for a covered indication and has received this
      medication for at least 30 days;
   2. Member is responding positively to therapy;
   3. If request is for a dose increase, request meets one of the following (a or b):*
      a. New dose does not exceed 600 mg per day;
      b. New dose is supported by practice guidelines or peer-reviewed literature for the
         relevant off-label use (*prescriber must submit supporting evidence*).

*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration:**
Medicaid/HIM – 12 months
Commercial – Length of Benefit

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): CP.CPA.09 for commercial, 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 –
   CP.CPA.09 for commercial, 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

- ADP: adenosine diphosphate
- AML: acute myeloid leukemia
- BRCA: breast cancer gene
- FDA: Food and Drug Administration
- gBRCAm: mutations in the germline BRCA genes
- HER: human epidermal growth factor receptor 2
- HR: hormone receptor
- MDS: myelodysplastic syndrome
- NCCN: National Comprehensive Cancer Network
- PARP: poly (ADP-ribose) polymerase

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 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><strong>Ovarian Cancer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alimta® (pemetrexed)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>Alkeran® (melphalan)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>Avastin® (bevacizumab)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>carboplatin (Paraplatin®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>cisplatin (Platinol-AQ®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>cyclophosphamide (Cytoxan®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>docetaxel (Taxotere®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>doxorubicin (Doxil®, Adriamycin®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>etoposide (Vepesid®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>gemcitabine (Gemzar®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>ifosfamide (Ifex®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>irinotecan (Camptosar®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>oxaliplatin (Eloxatin®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>topotecan (Hycamtin®)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>Hexalen® (altretamine)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td><strong>Pancreatic Adenocarcinoma</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOLFIRINOX (leucovorin, fluorouracil, irinotecan, oxaliplatin)</td>
<td>Various</td>
<td>Varies</td>
</tr>
<tr>
<td>Gemcitabine + cisplatin</td>
<td>Various</td>
<td>Varies</td>
</tr>
</tbody>
</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

None reported

Appendix D: General Information

- Myelodysplastic syndrome/acute myeloid leukemia (MDS/AML) have been confirmed in patients treated with Lynparza. The majority of the cases (17 of 22) were fatal. If MDS/AML is confirmed, discontinue Lynparza.
The FDA approved Lynparza with a genetic test called BRACAnalysis CDx, a companion diagnostic that will detect the presence of gBRCAm in blood samples from patients with ovarian cancer. Additional information is available at http://www.fda.gov/companiondiagnostics.

V. Dosage and Administration

<table>
<thead>
<tr>
<th>Indication</th>
<th>Dosing Regimen</th>
<th>Maximum Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ovarian cancer</td>
<td>300 mg PO BID</td>
<td>600 mg/day</td>
</tr>
<tr>
<td>Breast cancer</td>
<td>300 mg PO BID</td>
<td>600 mg/day</td>
</tr>
<tr>
<td>Pancreatic adenocarcinoma</td>
<td>300 mg PO BID</td>
<td>600 mg/day</td>
</tr>
</tbody>
</table>

VI. Product Availability

Tablets: 100 mg, 150 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. Added new indication for maintenance treatment of ovarian cancer.</td>
<td>09.08.17</td>
<td>11.17</td>
</tr>
<tr>
<td>Add new indication for treatment of gBRCAm, human epidermal growth factor receptor 2 (HER2)-negative metastatic breast cancer.</td>
<td>02.20.18</td>
<td>05.18</td>
</tr>
<tr>
<td>4Q 2018 annual review: breast cancer: added NCCN off-label uses and summarized NCCN and FDA-approved uses for improved clarity; all indications: removed language “as detected by an FDA approved test”; references reviewed and updated.</td>
<td>07.05.18</td>
<td>11.18</td>
</tr>
<tr>
<td>1Q 2019 annual review: Criteria added for new FDA indication for 1st-line maintenance treatment of gBRCAm or sBRCAm advanced ovarian cancer; removed capsule formulation from policy since it has been discontinued; references reviewed and updated.</td>
<td>01.22.19</td>
<td>02.19</td>
</tr>
</tbody>
</table>
Reviews, Revisions, and Approvals

<table>
<thead>
<tr>
<th>Description</th>
<th>Date</th>
<th>P&amp;T Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT4: updated FDA indication for maintenance treatment of ovarian cancer from “Select patients with gBRCAm advanced epithelial ovarian, fallopian tube or primary peritoneal cancer for therapy based on an FDA-approved companion diagnostic for Lynparza” to “Select patients for therapy based on an FDA-approved companion diagnostic for Lynparza” per updated verbiage in PI; no change to criteria.</td>
<td>07.09.19</td>
<td></td>
</tr>
<tr>
<td>1Q 2020 annual review and RT4: added new FDA indication and NCCN Compendium supported use in pancreatic adenocarcinoma; references reviewed and updated.</td>
<td>10.30.19</td>
<td>02.20</td>
</tr>
</tbody>
</table>

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 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.

Providers referred to in this clinical policy are independent contractors who exercise independent
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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
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