

Clinical Policy Title:	olaparib
Policy Number:	RxA.401
Drug(s) Applied:	Lynparza®
Original Policy Date:	03/06/2020
Last Review Date:	09/14/2020
Line of Business Policy Applies to:	All lines of business

Background

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

Lynparza is indicated for the:

Ovarian cancer

- 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
- In combination with bevacizumab for the maintenance treatment of adult patients with advanced epithelial ovarian, fallopian tube or primary peritoneal cancer who are in complete or partial response to fist-line platinum-based chemotherapy and whose cancer is associated with homologous recombination deficiency (HRD)-positive status defined by either: a deleterious or suspected BRCA mutation, and/or genomic instability. 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 complete or partial response to platinum-based chemotherapy
- 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

Breast cancer

- 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.

Pancreatic cancer

- 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.

This clinical policy has been developed to authorize, modify, or determine coverage for individuals with similar conditions. Specific care and treatment may vary depending on individual need and benefits covered by the plan. This policy is not intended to dictate to providers how to practice medicine, nor does it constitute a contract or guarantee regarding payment or results. This document may contain prescription brand name drugs that are trademarks of pharmaceutical manufacturers that are not affiliated with RxAdvance.

Prostate cancer

- Treatment of adult patients with deleterious or suspected deleterious germline or somatic homologous recombination repair (HRR) gene-mutated metastatic castration-resistant prostate cancer (mCRPC) who have progressed following prior treatment with enzalutamide or abiraterone. Select patients for therapy based on an FDA-approved companion diagnostic for Lynparza

Dosing Information			
Drug Name	Indication	Dosing Regimen	Maximum Dose
Olaparib (Lynparza)	Ovarian cancer	300 mg PO BID	600 mg/day
Olaparib (Lynparza)	Breast cancer	300 mg PO BID	600 mg/day
Olaparib (Lynparza)	Pancreatic cancer	300 mg PO BID	600 mg/day
Olaparib (Lynparza)	Prostate cancer	300 mg PO BID	600 mg/day

Dosage Forms

- Tablets: 100 mg, 150 mg

Clinical Policy

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

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, c or d):
 - 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;
 - d. All i, ii and iii:
 - i. Cancer is associated with homologous recombination deficiency (HRD)-positive status defined by deleterious or suspected deleterious germline BRCA mutation and/or genomic instability
 - ii. In complete or partial response to first-line platinum-based chemotherapy
 - iii. Prescribed in combination with bevacizumab

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*).

Approval Duration

Commercial: 6 months

Medicaid/HIM: 6 months

B. Breast Cancer (must meet all):

1. Diagnosis of breast cancer;
2. Prescribed by or in consultation with an oncologist;
3. Age \geq 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*).

Approval Duration

Commercial: 6 months

Medicaid/HIM: 6 months

C. Pancreatic Cancer (must meet all):

1. Diagnosis of pancreatic adenocarcinoma;
2. Prescribed by or in consultation with an oncologist;
3. Age \geq 18 years;
4. Disease has mutations in the BRCA genes;
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*).

Approval Duration

Commercial: 6 months

Medicaid/HIM: 6 months

D. Prostate Cancer (must meet all):

1. Diagnosis of pancreatic adenocarcinoma;
2. Prescribed by or in consultation with an oncologist;
3. Age \geq 18 years;
4. Disease has mutations in the HRR genes;
5. Received prior treatment with enzalutamide or abiraterone with 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*).

Approval Duration

Commercial: 6 months

Medicaid/HIM: 6 months

II. Continued Therapy Approval

A. All Indications in Section I (must meet all):

1. Currently receiving medication that has been authorized by RxAdvance 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. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

Approval Duration

Commercial: 12 months

Medicaid/HIM: 12 months

III. Appendices

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
 HRR: homologous recombination repair
 MDS: myelodysplastic syndrome
 MCRPC: metastatic castration-resistant prostate cancer
 NCCN: National Comprehensive Cancer
 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.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
Ovarian Cancer		
Alimta® (pemetrexed)	Various	Varies
melphalan (Alkeran®, Evomela®)	Various	Varies
bevacizumab (Avastin® Mvasi™, Zirabev®)	Various	Varies
carboplatin (Paraplatin®)	Various	Varies

cisplatin	Various	Varies
cyclophosphamide	Various	Varies
docetaxel (Taxotere®)	Various	Varies
doxorubicin (Doxil®, Adriamycin®)	Various	Varies
etoposide	Various	Varies
gemcitabine	Various	Varies
ifosfamide (Ifex®)	Various	Varies
irinotecan (Camptosar®, Onivyde®)	Various	Varies
oxaliplatin	Various	Varies
topotecan (Hycamtin®)	Various	Varies

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

- NCCN recommended uses (2A):
 - Ovarian cancer: preferred single-agent therapy in patients with BRCA mutated genes for persistent disease or recurrence following three or more lines of therapy.
 - Ovarian cancer: maintenance therapy for patients with platinum-sensitive disease who have completed two or more lines of platinum-based therapy and are in a complete or partial response.
 - Breast cancer: single agent for recurrent or stage IV (M1) HER2-negative, BRCA 1/2-germline mutated disease:
 - With symptomatic visceral disease or visceral crisis, or
 - That is hormone receptor-negative, or hormone receptor-positive and endocrine therapy refractory
 - Pancreatic Cancer: first Line maintenance therapy for metastatic BRCA 1/2-germline mutated disease.
 - Prostate Cancer: single agent for HRR Gene-mutated Metastatic Castration-Resistant disease.
- 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>.

References

1. Lynparza Prescribing Information. Wilmington, DE: AstraZeneca Pharmaceuticals LP. May 2020. Available at: <https://www.lynparza.com/>. Accessed June 19, 2020.
2. Olaparib. In: National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: http://www.nccn.org/professionals/drug_compendium. Accessed June 19, 2020.

Review/Revision History	Review/Revised Date	P&T Approval Date
Policy established.	01/2020	03/06/2020

<p>Policy was reviewed:</p> <ol style="list-style-type: none"> 1. Clinical Policy Title was updated 2. Drug(s) Applied was updated 3. Line of Business Policy Applies to was updated 4. Continued Therapy criteria II.A.1 was rephrased to "Currently receiving medication that has been authorized by RxAdvance..." 5. Commercial approval duration and Medicaid/HIM approval duration updated. 6. Added new indication for treatment of <i>gBRCAm</i> metastatic pancreatic adenocarcinoma and germline or somatic homologous recombination repair (HRR) gene-mutated metastatic castration-resistant prostate cancer (mCRPC) 7. Updated APPENDIX B: Therapeutic Alternatives to remove Platinol-AQ, Cytoxan, Vepesid, Gemzar, Eloxatin and Hexalen® (altretamine) due to discontinuation and to include Evomela, Mvasi, Zirabev, Onivyde as new brands 8. Updated APPENDIX D: General Information to include information of Pancreatic Cancer and Prostate Cancer treatment 9. References were updated 10. Updated Initial Approval Criteria for Ovarian Cancer to include first line maintenance treatment of HRD-positive advanced ovarian cancer in combination with bevacizumab 	<p>6/19/2020</p>	<p>09/14/2020</p>
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