

Olaparib (Tablet) Monotherapy

INDICATIONS FOR USE:

| INDICATION | ICD10 | Regimen Code | HSE approved reimbursement status* |
|--|-------------------|----------------------------|------------------------------------|
| Maintenance treatment of adult patients with advanced (FIGO stages III and IV) <i>BRCA</i> 1/2-mutated (germline and/or somatic) <ul style="list-style-type: none"> High-grade epithelial ovarian fallopian tube cancer primary peritoneal carcinoma who are in response (complete or partial) following completion of first-line platinum based chemotherapy | C56 C48 C57 | 00588a 00588b 00588c | CDS 01/12/2020 |
| Maintenance treatment of adult patients with platinum-sensitive relapsed <i>BRCA</i> -mutated (germline and/or somatic) <ul style="list-style-type: none"> high grade serous epithelial ovarian cancer fallopian tube cancer primary peritoneal cancer who are in response (complete response or partial) to platinum-based chemotherapy | C56 C48 C57 | 00588d 00588e 00588f | CDS |
| As monotherapy for the treatment of adult patients with metastatic castration-resistant prostate cancer and <i>BRCA</i> 1/2-mutations (germline and/or somatic) who have progressed following prior therapy that included a new hormonal agent. | C61 | 00588g | CDS 01/03/2023 |
| As monotherapy or in combination with endocrine therapy for the adjuvant treatment of adult patients with germline <i>BRCA</i> 1/2-mutations who have HER2-negative high risk early breast cancer previously treated with neoadjuvant or adjuvant chemotherapy. | C50 | 00588h | N/A |
| As monotherapy for the maintenance treatment of adult patients with germline <i>BRCA</i> 1/2-mutations who have metastatic adenocarcinoma of the pancreas and have not progressed after a minimum of 16 weeks of platinum treatment within a first-line chemotherapy regimen. | C25 | 00588i | N/A |

*This is for post 2012 indications only

TREATMENT:

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patient's individual clinical circumstances.

1L Maintenance treatment of *BRCA*-mutated advanced ovarian cancer:

Olaparib is taken twice daily continuously until radiological disease progression, unacceptable toxicity, or for up to 2 years if there is no radiological evidence of disease after 2 years of treatment. Patients with evidence of disease at 2 years, who in the opinion of the treating physician can derive further benefit from continuous treatment, can be treated beyond 2 years.

Maintenance treatment of:

- Platinum-sensitive relapsed *BRCA*-mutated ovarian cancer
- BRCA*1/2 mutated metastatic adenocarcinoma of the pancreas

Olaparib is taken twice daily continuously until disease progression or unacceptable toxicity develops.

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Treatment of prostate cancer:

Olaparib is taken twice daily continuously until disease progression or unacceptable toxicity develops. Medical castration with luteinising hormone releasing hormone (LHRH) analogue should be continued during treatment in patients not surgically castrated.

Adjuvant treatment of germline BRCA-mutated high risk early breast cancer:

Olaparib is taken twice daily continuously for up to 1 year, or until disease recurrence, or unacceptable toxicity, whichever occurs first.

| Drug | Dose | Route | Cycle |
|--|--------------------|-------|------------|
| Olaparib tablets | 300mg twice daily* | PO | Continuous |
| *Total daily dose 600mg. | | | |
| If a patient misses a dose of olaparib, they should take their next normal dose at its scheduled time. | | | |
| Olaparib tablets should be swallowed whole and not chewed, crushed, dissolved or divided. Olaparib tablets may be taken without regard to meals. | | | |
| Olaparib tablets are commonly available as 100 mg and 150 mg tablets. | | | |

ELIGIBILITY:

- Indications as above
- Adequate organ function

1L Maintenance treatment of BRCA-mutated advanced ovarian cancer:

- Platinum-responsive histologically confirmed high risk advanced (FIGO stage III-IV) BRCA mutated high grade serous or high-grade endometrioid ovarian cancer, primary peritoneal cancer or fallopian-tube cancer:
 - Platinum-responsive defined as partial or complete clinical response to platinum treatment,
 - Completed at least 4 cycles of first-line platinum chemotherapy and in radiologic (complete or partial) response, and
 - Last dose of platinum chemotherapy within 8 weeks of starting olaparib maintenance*
- BRCA 1/2 mutation (germline and/or somatic) as demonstrated by an accurate and validated test method**
- Stage III or IV disease (patients may have upfront or interval debulking surgery)
 - *Where debulking surgery is required last dose of platinum chemotherapy should be within 12 weeks of starting olaparib maintenance
- ECOG 0-1
- Where patients who have commenced treatment with bevacizumab concomitant with chemotherapy are found to have BRCA 1/2mutation (germline or somatic) bevacizumab may be discontinued and treatment with olaparib maintenance commenced 4-8 weeks after the last dose of chemotherapy

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Maintenance treatment of platinum-sensitive relapsed BRCA-mutated ovarian cancer:

- BRCA 1/2 mutation (germline and/or somatic) as demonstrated by an accurate and validated test method**
- ECOG status 0-2
- Completed their previous platinum containing chemotherapy regimen in the previous 8 weeks
- Completed at least two courses of platinum-based chemotherapy
- The cancer is required to be platinum-sensitive (an objective response to the penultimate platinum-based regimen of more than six months) and the most recent regimen must have induced an objective response (either partial (PR) or complete response (CR))
- Patients’ pre-treatment CA-125 value is within the upper limit of normal, or if greater, then a repeated level after seven days increased by less than 15% of the first measurement
- Life expectancy at least 16 weeks

Treatment of prostate cancer:

- BRCA 1/2 mutation (germline and/or somatic) as demonstrated by an accurate and validated test method**
- ECOG 0-2

Adjuvant treatment of germline BRCA-mutated high risk early breast cancer:

- Germline BRCA 1/2 mutation as demonstrated by an accurate and validated test method**
- HER2 negative breast cancer
 - Please see *Recommendations on Reporting on HER2 Status in Breast Cancer Patients Available on the NCCP website*.
- Ideally, adjuvant treatment with olaparib should be initiated within 12 weeks of completion of last treatment (surgery, chemotherapy, or radiation)
- High risk early breast cancer defined as follows:
 - **Triple Negative Breast Cancer (TNBC)**
 - Treated with neoadjuvant chemotherapy who have residual invasive breast cancer in the breast or resected lymph nodes (i.e. no pathological complete response from neoadjuvant therapy)
 - Treated with adjuvant chemotherapy and have axillary node–positive disease or node negative with a primary tumour ≥ 2cm on pathological analysis
 - **Hormone Receptor Positive/HER2 negative Breast Cancer**
 - Treated with neoadjuvant chemotherapy who have not had a pathological complete response and have a CPS+EG score of 3 or higher based on pre-treatment clinical and post-treatment pathological stage, receptor status and histological grade
 - Treated with adjuvant chemotherapy and have at least four pathologically confirmed positive lymph nodes
- ECOG 0-2
- **1L Maintenance treatment of BRCA1/2 mutated metastatic adenocarcinoma of the pancreas**
 - Germline BRCA 1/2 mutation as demonstrated by an accurate and validated test method**
 - ECOG 0-2

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** Information on BRCA testing for olaparib is [Available on the NCCP website](#)

EXCLUSIONS:

- Hypersensitivity to olaparib, or any of the excipients.
- Previous treatment with PARP inhibitor

Ovarian, breast and pancreatic cancer indications:

- Breastfeeding during treatment and for 1 month after the last dose
- Pregnancy

PRESCRIPTIVE AUTHORITY:

- The treatment plan must be initiated by a Consultant Medical Oncologist

TESTS:

Baseline tests:

- Confirmation of germline and/or somatic BRCA1/2 mutations
 - Information on BRCA testing for olaparib is [Available on the NCCP website](#)
- FBC, renal and liver profile

Ovarian, breast and pancreatic cancer indications:

- A pregnancy test should be performed on all premenopausal women prior to treatment

Regular tests:

- FBC, renal and liver profile every 4 weeks for the first 12 months and then as clinically indicated

Ovarian, breast and pancreatic cancer indications:

- Consider regular pregnancy testing as indicated

Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

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DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant
- Treatment may be interrupted to manage adverse reactions such as nausea, vomiting, diarrhoea, and anaemia and dose reduction can be considered (Table 1)

Table 1: Dose reduction levels of olaparib

| Dose Level | Dose Recommendation | Total Daily Dose |
|---------------|---------------------|------------------|
| Starting dose | 300mg Twice Daily | 600mg |
| Dose -1 | 250mg Twice Daily | 500mg |
| Dose -2 | 200mg Twice Daily | 400mg |

Haematological:

Table 2: Recommended dose modification of olaparib in haematological toxicity

| ANC ($\times 10^9$ /L) | | Platelets ($\times 10^9$ /L) | Dose |
|-------------------------|-----|-------------------------------|---|
| ≥ 1 | And | ≥ 100 | 100% of previous cycle's dose |
| < 1 | Or | < 100 | Delay until recovery then restart at a reduced dose level as per Table 1 above 4 th occurrence: Cease olaparib |
| Febrile Neutropenia | | | Delay until recovery then restart at a reduced dose level as per Table 1 above 4 th occurrence: Cease olaparib For grade 4 febrile neutropenia consider restarting olaparib at dose reduction of two dose levels |

Renal and Hepatic Impairment:

Table 3: Recommended dose modification of olaparib in renal and hepatic impairment

| Renal Impairment | | Hepatic Impairment | |
|------------------|-----------------------------------|-----------------------|-----------------------------------|
| Cr Cl (ml/min) | Dose | Impairment Level | Dose |
| > 50 | No dose adjustment | Mild/Child-Pugh A | No dose adjustment is needed |
| 30-50 | 200mg PO twice daily | Moderate/Child-Pugh B | No dose adjustment is needed |
| < 30 | Consider 50% of the original dose | Severe/Child-Pugh C | Consider 50% of the original dose |
| Haemodialysis | Consider 50% of the original dose | | |

Renal and hepatic recommendations: Giraud et al, 2023

Dose adjustments for co-administration with CYP3A inhibitors

- Concomitant use of strong and moderate CYP3A inhibitors is not recommended and alternative agents should be considered
 - Examples of strong inhibitors: clarithromycin, itraconazole, ketoconazole, grapefruit juice.

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- Examples of moderate inhibitors: aprepitant, erythromycin, diltiazem, fluconazole, ciclosporin, ciprofloxacin.
- If a strong or moderate CYP3A inhibitor must be co-administered the recommended dose of olaparib is shown in Table 4 below.

Table 4: Recommended olaparib dose reduction when co-administered with strong or moderate CYP3A inhibitors

| Class of CYP3A inhibitor | Dose | Total daily dose |
|--------------------------|-------------------|------------------|
| Strong CYP3A inhibitor | 100mg twice daily | 200mg |
| Moderate CYP3A inhibitor | 150mg twice daily | 300mg |

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

- As outlined in NCCP Classification Document for Systemic AntiCancer Therapy (SACT) Induced Nausea and Vomiting [Available on the NCCP website](#)

Moderate to high (**Refer to local policy**).

For information:

Within NCIS regimens, antiemetics have been standardised by the Medical Oncologists and Haemato-oncologists and information is available in the following documents:

- NCCP Supportive Care Antiemetic Medicines for **Inclusion in NCIS** (Medical Oncology) - [Available on the NCCP website](#)
- NCCP Supportive Care Antiemetic Medicines for **Inclusion in NCIS** (Haemato-oncology) - [Available on the NCCP website](#)

PREMEDICATIONS:

Consider the use of:

- Anti-emetics (**Refer to local policy**).
- Proton Pump Inhibitor (**Refer to local policy**).

OTHER SUPPORTIVE CARE:

- Women of childbearing potential must use effective contraception before, during therapy and for 6 months after receiving the last dose of olaparib. Due to the potential interaction of olaparib with hormonal contraception, an additional non-hormonal contraceptive method and regular pregnancy tests should be considered during treatment. Male patients must use reliable contraception during therapy and for 3 months after receiving the last dose. Female partners of males patients must also use highly effective contraception if they are of childbearing potential.

ADVERSE EFFECTS:

- Please refer to the relevant Summary of Product Characteristics (SmPC) for details.

DRUG INTERACTIONS:

- Current SmPC and drug interaction databases should be consulted for information

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| Version | Date | Amendment | Approved By |
|---------|------------|---|-----------------------|
| 1 | 26/11/2020 | | Prof Maccon Keane |
| 2 | 21/12/2021 | Addition of new indication | Prof Maccon Keane |
| 3 | 01/03/2023 | Addition of new indication | Dr Richard Bambury |
| 4 | 12/11/2024 | Addition of new indication | Prof Michaela Higgins |
| 5 | 20/01/2025 | Addition of new indication | Prof Maccon Keane |
| 5a | 09/04/2025 | Update eligibility criteria for adjuvant breast indication. Update webpage link for PARPi testing | Prof Michaela Higgins |

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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