South West Clinical Network

Olaparib tablets

Indication

Maintenance treatment of BRCA mutation positive, advanced (FIGO stages 3 and 4), high grade epithelial ovarian, fallopian tube or primary peritoneal cancer that has responded to first line platinum based chemotherapy. (NICE TA598)

Maintenance treatment of relapsed, platinum-sensitive, high-grade epithelial ovarian, fallopian tube or primary peritoneal cancer in adults whose disease has responded to platinum-based chemotherapy only if they have a BRCA1 or BRCA2 mutation and have had 3 or more courses of platinum-based chemotherapy. (Also those who have had 2 courses of platinum therapy - funding available via the CDF). (NICE TA620)

ICD-10 codes

Codes with a pre fix C48, 56, 57

Regimen details

Day	Drug	Dose	Route
1-28 (continuous)	Olaparib tablets	300mg BD	PO

Treatment should be started no later than 8 weeks after completion of the final dose of platinum-containing chemotherapy.

Cycle frequency

Continuous

Number of cycles

Continuous until disease progression or unacceptable toxicity. For patients having as first line treatment, Olaparib should be continued for up to 2 years if there is no radiological evidence of disease. Patients with evidence of disease at 2 years who (in the opinion of the treating consultant) can derive further benefit from continuous treatment can have treatment beyond 2 years.

Administration

Olaparib is available as 100mg and 150mg tablets. Tablets should be swallowed whole and not chewed, crushed, dissolved or divided.

If a dose is missed it should be omitted and the next dose taken as planned.

Grapefruit and grapefruit juice should be **<u>avoided</u>** whilst taking olaparib.

Olaparib capsules should not be substituted for olaparib tablets due to differences in the dosing and bioavailability of each formulation.

Pre-medication

Nil

Emetogenicity

This regimen has mild emetic potential.

Additional supportive medication

Antiemetics if required.

Extravasation

N/A

Investigations – pre first cycle

Investigation	Validity period
FBC	14 days
U + Es (including creatinine)	14 days
LFTs	14 days
CA 125	14 days

Investigations – pre subsequent cycles

Investigation	Validity period
FBC	Monthly
U + Es (including creatinine)	Monthly
LFTs	Monthly
CA 125	3 monthly

Standard limits for administration to go ahead

If blood results not within range, authorisation to administer must be given by prescriber/ consultant

Investigation	Limit
Neutrophils	> 1.5 x 10 ⁹ /L
Platelets	> 75 x 10 ⁹ /L
CrCl	> 50 mL/min
Bilirubin	< 3 x ULN
ALT/AST	< 5 x ULN

Dose modifications

The recommended dose reduction for adverse reactions is 200 mg BD. If a further dose reduction is required, then the dose should be reduced to 100mg BD.

• Haematological toxicity

If a patient develops severe haematological toxicity or blood transfusion dependence, treatment should be interrupted and appropriate haematological testing should be initiated. If the blood parameters remain clinically abnormal after a 4 weeks delay, bone marrow analysis and/or blood cytogenetic analysis are recommended.

• Renal impairment

CrCl (mL/min)	Olaparib dose
> 50	300mg BD
31-50	200mg BD
≤ 30	Not recommended

• Hepatic impairment

No dose adjustment is required in mild or moderate hepatic impairment (Child Pugh A-B). Olaparib is not recommended for use in patients with severe hepatic impairment (Child Pugh C).

• Other toxicities

Pneumonitis

Fatal pneumonitis has been reported in patients taking olaparib. If patients present with new or worsening respiratory symptoms such as dyspnoea, cough and fever, or an abnormal chest radiologic finding is observed, olaparib treatment should be interrupted and prompt investigation initiated. If pneumonitis is confirmed, olaparib should be discontinued.

Adverse effects - for full details consult product literature/ reference texts

• Serious side effects

Pneumonitis Myelodysplastic syndrome and AML Myelosuppression Anaemia

• Frequently occurring side effects

Nausea and vomiting Dyspepsia Fatigue Headache Dizziness Cough Stomatitis

• Other side effects

Taste disturbance Decreased appetite Increased creatinine Rash

Significant drug interactions – for full details consult product literature/ reference texts

Strong or moderate CYP3A inhibitors: (e.g. itraconazole, telithromycin, clarithromycin, erythromycin, diltiazem, fluconazole, verapamil) co-administration is not recommended. If a strong or moderate CYP3A inhibitor must be co-administered, the dose of olaparib should be reduced. See SPC for further information.

Strong or moderate CYP3A inducers: (e.g. phenytoin, rifampicin, carbamazepine, nevirapine, phenobarbital, St John's Wort, efavirenz, rifabutin) co-administration is not recommended. If a patient already receiving olaparib requires treatment with a strong or moderate CYP3A inducer, the prescriber should be aware that the efficacy of olaparib may be substantially reduced. See SPC for further information.

Sensitive CYP3A substrates or substrates with a narrow therapeutic margin: (e.g. simvastatin, cisapride, cyclosporin, ergot alkaloids, fentanyl, pimozide, sirolimus, tacrolimus and quetiapine) use with caution and close clinical monitoring.

Hormonal contraceptives: efficacy may be reduced, use alternative forms of contraception.

Substrates of P-gp: (e.g. simvastatin, pravastatin, dabigatran, digoxin and colchicine) use with caution and close clinical monitoring.

In vitro, olaparib has been shown to be an inhibitor of BCRP, OATP1B1, OCT1, OCT2, OAT3, MATE1 and MATE2K.

Additional comments

Olaparib should not be used during pregnancy. Women of childbearing potential must use two forms of reliable contraception before starting treatment, during therapy and for 1 month after receiving the last dose. Two highly effective and complementary forms of contraception are recommended. Male patients and their female partners of childbearing potential should use reliable contraception during therapy and for 3 months after receiving the last dose of olaparib.

References

- Summary of Product Characteristics Olaparib (Astra Zeneca) accessed 15 January 2020 via <u>www.medicines.org.uk</u>
- National Institute for Clinical Excellence (TA598) accessed 15 January 2020 via <u>www.nice.org.uk</u>
- Moore, K et al; Maintenance Olaparib in patients with newly diagnosed advanced ovarian cancer. NEJM 2018; 379: 2495 2505
- National Institute for Clinical Excellence (TA620) accessed 15 January 2020 via <u>www.nice.org.uk</u>
- Pujade-Lauraine, E. et al. Olaparib tablets as maintenance therapy in patients with platinum sensitive relapsed ovarian cancer and BRCA 1/2 mutation (SOLO2/ENGOT-Ov21). Lancet Oncology.2017; 18:9, 1274-1284.

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