Oral Cyclophosphamide for Ovarian Cancer

Indication

Relapsed ovarian cancer

Regimen details

Cyclophosphamide 50mg once daily

Cycle frequency

Six weeks on - 1 week off

Number of cycles

Until disease progression

Administration

Cyclophosphamide tablets should be taken daily preferably in the morning, swallowed whole with a full glass of water. Patients should be encouraged to increase oral fluid intake to at least 2 litres per day to reduce the time that the drug remains in the bladder.

Pre-medication

None

Emetogenicity

Mild/moderate – use prn metoclopramide. Patients may report a "churning" sensation in the stomach. This may be a manifestation of gastritis which may respond better to H₂ antagonists or PPIs than antiemetics.

Additional supportive medication

Mesna can be added to the supportive treatment for haemorrhagic cystitis if required as a daily oral dose

Extravasation

N/A

Investigations - pre first cycle

Investigation	Validity period	
FBC	14 days	
U+E (including creatinine)	14 days	
LFT (including AST)	14 days	
Calcium	14 days	
Phosphate	14 days	
CA125	14 days	

Investigations -pre subsequent cycles

FBC, U+E (including creatinine), every two weeks for the first 6 weeks and then every 4 weeks LFTs, CA125 every 4 weeks CT scan every 3-4 cycles

Medical/chemo CNS review before each cycle

Standard limits for administration to go ahead

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

Investigation	Limit
Neutrophil count	$\geq 1.5 \times 10^9 / L$
Platelet count	$\geq 100 \times 10^9 / L$
Creatinine clearance	≥ 60 mL/min
Bilirubin	≤ 1.0 x ULN
AST	< 1.5 x ULN

Dose modifications

Consider treatment gap and/or a dose reductions if neutrophils <1.5, Platelets <100 at the start of the cycle or if neutropenic fever.

Adverse effects -

for full details consult product literature/ reference texts

Serious side effects

Infections
Second malignancy
Febrile neutropenia
Myelosuppression
Haemorrhagic cystitis
Pulmonary toxicity
Cardiotoxicity

Veno-occlusive liver disease

Frequently occurring side effects

Nausea Immunosuppression Mucosal inflammation Hepatotoxicity Asthenia Infertility

• Other side effects

Alopecia

Significant drug interactions

for full details consult product literature/ reference texts

Cyclophosphamide is inactive but is metabolised in the liver into active metabolites mainly by CYP2A6, 2B6, 2C9, 2C19 and 3A4.

Any drugs which inhibit these enzymes may cause a decrease in the activation of cyclophosphamide and thus an decrease in efficacy. Conversely, any drug which induces these enzymes may cause an increase in toxicity

Additional comments

References

Cyclophosphamide SPC - https://www.medicines.org.uk/emc/product/3525/smpc

THIS PROTOCOL HAS BEEN DIRECTED BY <u>DR YIANNAKIS</u>, CONSULTANT HAEMATOLOGIST

RESPONSIBILITY FOR THIS PROTOCOL LIES WITH THE HEAD OF SERVICE

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