

## Chemotherapy Protocol

### GERM CELL

### CARBOPLATIN

(AUC 7)

#### Regimen

- Germ Cell – Carboplatin (AUC7)

#### Indication

- Stage I seminoma of the testis with no metastases (retroperitoneal lymph nodes less than or equal to 10mm and normal levels of AFP/HCG)

#### Toxicity

Drug	Adverse Effect
Carboplatin	Neuropathy, nephrotoxicity, ototoxicity

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

#### Monitoring

##### *Drugs*

- FBC, LFTs and U&Es
- EDTA or uncorrected Tc<sup>99</sup> clearance (the use of the Cockcroft & Gault formula to estimate GFR is not recommended for this regimen)

#### Dose Modifications

##### *Haematological*

Prior to treatment

Criteria	Eligible Level
Neutrophil	equal to or more than $1 \times 10^9/L$
Platelets	equal to or more than $100 \times 10^9/L$

##### *Hepatic Impairment*

Drug	Bilirubin $\mu\text{mol/L}$	AST/ALT units/L	Dose (% of original dose)
Carboplatin	N/A	N/A	No dose adjustment needed

## Renal Impairment

Drug	Creatinine Clearance (ml/min)	Dose (% of original dose)
Carboplatin	less than 20	Omit

## Regimen

### One cycle (post orchidectomy)

Drug	Dose	Days	Administration
Carboplatin	AUC 7	1	Intravenous infusion in 500ml glucose 5% over 60 minutes

## Dose Information

- Carboplatin will be dose banded according to national dose bands (10mg/ml)

## Administration Information

### Extravasation

- Carboplatin - irritant

## Additional Therapy

- Antiemetics

15-30 minutes prior to chemotherapy

- dexamethasone 8mg oral or intravenous
- ondansetron 8mg oral or intravenous

As take home medication

- dexamethasone 4mg oral twice a day for 3 days
- metoclopramide 10mg oral three times a day for 3 days then 10 mg three times a day as required

## References

1. Oliver RT, Mason MD, Mead GM et al. Radiotherapy versus single dose carboplatin in adjuvant treatment of stage I seminoma: a randomised trial. *Lancet* 2005; 366 (9482): 293-300.

## REGIMEN SUMMARY

### Carboplatin AUC 7

#### Day 1

1. Dexamethasone 8mg oral or intravenous  
Administration instructions: To be administered 15-30 minutes before SACT
2. Ondansetron 8mg oral or intravenous  
Administration instructions: To be administered 15-30 minutes before SACT
3. Carboplatin AUC 7 in 500ml Glucose 5% intravenous infusion over 60 minutes

#### Take home medicines

4. Dexamethasone 4mg oral twice a day for 3 days starting the day after chemotherapy  
Administration Instructions  
Take with or after food. Start on day two of the cycle.
5. Metoclopramide 10mg three times a day for 3 days starting on the day of chemotherapy then 10mg three times a day as required for nausea oral  
Administration instructions: Please supply 5 days or an original pack.

## DOCUMENT CONTROL

Version	Date	Amendment	Written By	Approved By
1.2	May 2023	Carboplatin amended to national dose banding Administration instructions added to regimen summary. Coding removed	Alexandra Pritchard Pharmacist	Tom Hurst Pharmacy Technician
1.1	July 2015	Header changed Metoclopramide dose changed to 10mg Bolus removed from intravenous bolus throughout text OPCS code updated Metoclopramide TTO clarified Disclaimer added	Donna Kimber Pharmacy Technician	Rebecca Wills Pharmacist
1	Dec 2012	None	Rebecca Wills Pharmacist  Dr Deborah Wright Pharmacist	Dr Joanna Gale Consultant Medical Oncologist  Dr Mathew Wheeler Consultant Medical Oncologist

This chemotherapy protocol has been developed as part of the chemotherapy electronic prescribing project. This was and remains a collaborative project that originated from the former CSCCN. These documents have been approved on behalf of the following Trusts;

Hampshire Hospitals NHS Foundation Trust  
NHS Isle of Wight  
Portsmouth Hospitals NHS Trust  
Salisbury Hospitals NHS Foundation Trust  
University Hospital Southampton NHS Foundation Trust  
Western Sussex Hospitals NHS Foundation Trust

All actions have been taken to ensure these protocols are correct. However, no responsibility can be taken for errors which occur as a result of following these guidelines.