

CARBOPLATIN desensitisation

INDICATION (ICD10)

1. Carboplatin desensitisation for carboplatin hypersensitivity.
PS 0, 1, 2

REGIMEN

Day 0 Premedication starting the night prior to infusion:

- Dexamethasone 8mg twice daily orally
- H₂ antagonist once daily orally
- Cetirizine 10mg once daily orally

Day 1 Premedication 30 minutes prior to infusion:

- Dexamethasone 8mg IV bolus
- H₂ antagonist
- Chlorphenamine 10mg IV bolus
- Ondansetron 8mg IV bolus
- CARBOPLATIN AUC 0.005 in 50ml glucose 5% IV infusion over 30 minutes
- CARBOPLATIN AUC 0.05 in 50ml glucose 5% IV infusion over 30 minutes
- CARBOPLATIN AUC 0.5 in 50ml glucose 5% IV infusion over 30 minutes
- CARBOPLATIN AUC 4.445 in 500ml glucose 5% IV infusion over 60 minutes
- Dose calculated by EDTA GFR or calculated $(CrCl + 25) \times AUC$.

CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 21 days for the equivalent number of cycles would have received in treatment reacted to, up to 6 cycles

ANTI-EMETICS

Moderate risk day 1

CONCURRENT MEDICATION REQUIRED

Carboplatin	<p>Ensure premedication given before carboplatin.</p> <p>Anaphylaxis treatment should be prescribed if the patient has had an anaphylactic episode previously.</p> <p>Dexamethasone 20mg IV bolus</p> <p>Chlorphenamine 10mg IV bolus</p> <p>H₂ antagonist</p> <p>Carboplatin should be given at a slower rate e.g 2-4 hours.</p>
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EXTRAVASATION AND TYPE OF LINE / FILTERS

Carboplatin - irritant

Filter not required

Peripheral or central line

INVESTIGATIONS

Blood results required before SACT administration

FBC, U&E and LFTs every cycle

Neutrophils x 10⁹/L ≥1.5

Platelets x 10⁹/L ≥100

GFR assessed using EDTA result or calculated creatinine clearance at the Consultant's discretion.

Patients with hydronephrosis or serum creatinine ≥100micromol/L need a serum creatinine checked every cycle.

Baseline weight and every cycle

MAIN TOXICITIES AND ADVERSE REACTIONS

Carboplatin	Ototoxicity – monitor Neurotoxicity - monitor
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DOSE MODIFICATIONS

GFR/ calculated CrCl ≤20ml/min or ≤30ml/min with pre-existing severe renal impairment	contraindicated
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REFERENCES

1. Royal Marsden desensitisation regimen