



## CARBOPLATIN ETOPOSIDE

### INDICATION (ICD10) C34

- 1. Advanced Ewing
- 2. High grade sarcoma
  - PS 0, 1, 2

### REGIMEN

- Day 1 CARBOPLATIN AUC 5 infusion in 500ml glucose 5% IV infusion over 30 minutes
- ETOPOSIDE 120mg/m<sup>2</sup> in 1000ml\* sodium chloride 0.9% IV infusion over 60 minutes
- Day 2 ETOPOSIDE 120mg/m<sup>2</sup> in 1000ml\* sodium chloride 0.9% IV infusion over 60 minutes
- Day 3 ETOPOSIDE 120mg/m<sup>2</sup> in 1000ml\* sodium chloride 0.9% IV infusion over 60 minutes

\*doses 48mg to 88mg in 250ml, doses 96mg to 180mg in 500ml sodium chloride 0.9%

## CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 21 days for up to 6 to 8 cycles

## ANTI-EMETICS

High emetic risk day 1 Moderate emetic risk days 2 and 3

### **CONCURRENT MEDICATION REQUIRED**

Carboplatin	Anaphylaxis treatment should be prescribed if the patient has had an
	anaphylactic episode previously.
	Dexamethasone 20mg IV bolus
	Chlorphenamine 10mg IV bolus
	H <sub>2</sub> antagonist
	Carboplatin should be given at a slower rate e.g. 2-4 hours.
GCSF	GCSF starting at least 24 hours after chemotherapy

## EXTRAVASATION AND TYPE OF LINE / FILTERS

Carboplatin – irritant Etoposide - irritant

Peripheral line

### INVESTIGATIONS

Blood results required before SACT administration FBC, U&E and LFTs every cycle Neutrophils x  $10^{9}/L \ge 1.5$ Platelets x  $10^{9}/L \ge 100$ DTPA baseline Creatinine clearance (GFR) calculated, at the Consultants discretion Serum creatinine - each cycle, Baseline weight and every cycle

## MAIN TOXICITES AND ADVERSE REACTIONS

Carboplatin	Ototoxicity - monitor Neurotoxicity – monitor.
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### INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stockleys)

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Carboplatin	Aminoglycosides increased risk of nephrotoxicity and ototoxicity. Renal
	function should be well monitored and audiometric tests as required.
	Carboplatin can cause a decrease in phenytoin serum levels. This may
	lead to reappearance of seizures and may require an increase of
	phenytoin dosages.

#### DOSE MODIFICATIONS

#### Haematological

Haematological delay >14 days reduce etoposide to give 80% dose and reduce carboplatin dose to AUC4.

Further haematological delays reduce etoposide to give 60% dose and reduce carboplatin further for next cycle.

#### Hepatic impairment

Etoposide	
Bilirubin ≥51micromol/L or decreased albumin	give 50% dose

# Renal impairment

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

#### Etoposide

CrCl >50ml/min	give 100% dose
CrCl 15-50ml/min	give 75% dose
CrCl <15ml/min	Further dose reduction

#### REFERENCES

1. Annemiek M. van Maldegem, et al, Pediatr Blood Cancer 2015;62:40-4

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