

Adjuvant BEP

(Bleomycin, etoposide, cisplatin)

Indication

High risk non-seminomatous germ cell tumour stage I

Regimen details

Day	Drug	Fluid	Time
1	Etoposide 165mg/m ²	1 litre sodium chloride 0.9%	1 hour
	Potassium chloride 20mmol and magnesium sulphate 10mmol	1 litre sodium chloride 0.9%	2 hours
	Cisplatin 50mg/m ²	500ml sodium chloride 0.9%	1 hour
	Potassium chloride 20mmol and magnesium sulphate 10mmol	1 litre sodium chloride 0.9%	2 hours
2	Hydrocortisone 200mg	IV bolus	
	Bleomycin 30,000 units	250ml sodium chloride 0.9%	30 min
	Etoposide 165mg/m ²	1 litre sodium chloride 0.9%	1 hour
	Potassium chloride 20mmol and magnesium sulphate 10mmol	1 litre sodium chloride 0.9%	2 hours
	Cisplatin 50mg/m ²	500ml sodium chloride 0.9%	1 hour
	Potassium chloride 20mmol and magnesium sulphate 10mmol	1 litre sodium chloride 0.9%	2 hours
3	Etoposide 165mg/m ²	1 litre sodium chloride 0.9%	1 hour
		1 litre sodium chloride 0.9%	4 hours
		1 litre sodium chloride 0.9%	4 hours
		1 litre sodium chloride 0.9%	4 hours

Cycle frequency

N/A

Number of cycles

One cycle only

Administration

Do not wait for result of FBC prior to giving days 8 & 15 unless patient looks unwell

Pre-medication

Hydrocortisone 200mg IV pre bleomycin

Emetogenicity

Highly emetogenic

Investigations – pre first cycle

CT Thorax, Abdo, Pelvis

Spirometry + transfer factor

Audiometry

Baseline bloods: FBC, U&Es, LFT, calcium, uric acid, Magnesium, LDH, AFP, HCG

Calculated creatinine clearance

Investigations –pre subsequent cycles

FBC, U+E (including creatinine), LFT, LDH, AFP, HCG

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	$\geq 0.5 \times 10^9/L$
Platelet count	$\geq 50 \times 10^9/L$
Creatinine clearance	$\geq 60 \text{ mL/min}$
Bilirubin	$\leq 1.5 \times \text{ULN}$
AST	$< 1.5 \times \text{ULN}$

Dose modifications

Any dose delay or modification must be discussed with consultant

Replace cisplatin with carboplatin AUC6 if creatinine clearance $< 50 \text{ ml/min}$

Radiological changes of bleomycin lung, bleomycin rash or breathlessness – omit bleomycin

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

Neutropenic sepsis and thrombocytopenia

Amenorrhoea and infertility (offer fertility cryopreservation)

Cough/dyspnoea/rash

Tinnitus/deafness

Nephrotoxicity

Nausea and vomiting

Peripheral neuropathy

Mucositis

Alopecia

THIS PROTOCOL HAS BEEN DIRECTED BY DR BIRTLE, DESIGNATED LEAD CLINICIAN FOR GERM CELL TUMOURS

RESPONSIBILITY FOR THIS PROTOCOL LIES WITH THE HEAD OF SERVICE

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