3 day EP

(Etoposide, cisplatin)

Indication

Germ cell tumours with good prognosis where bleomycin is contraindicated

Regimen details

Day	Drug	Fluid	Time
1	Etoposide 165mg/m²	1 litre sodium chloride 0.9%	1 hour
	Cisplatin 50mg/m ²	500ml sodium chloride 0.9%	2 hours
	Potassium chloride 20mmol and magnesium sulphate 10mmol	1 litre sodium chloride 0.9%	2 hours
	Additional infusion if given as inpatient or patient unable to tolerate adequate oral fluid intake	1 litre sodium chloride 0.9%	2 hours
	Etoposide 165mg/m²	1 litre sodium chloride 0.9%	1 hour
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	Potassium chloride 20mmol and magnesium sulphate 10mmol	1 litre sodium chloride 0.9%	2 hours
	Additional infusion if given as inpatient or patient unable to tolerate adequate oral fluid intake	1 litre sodium chloride 0.9%	2 hours
3	Etoposide 165mg/m²	1 litre sodium chloride 0.9%	1 hour
	Additional infusion if given as inpatient or patient unable to tolerate adequate oral fluid intake	1 litre sodium chloride 0.9%	2 hours

Cycle frequency

Every 21 days

Number of cycles

4 cycles

Administration

Can be given as outpatient subject to patient and clinician preference and suitability Patient must be able to drink the additional oral hydration of 1000-2000mls per day Strict fluid balance

Consider Frusemide 20-40mg po if >1000ml positive balance. IV frusemide should only be given if patient is unwell, unable to take oral medication or unresponsive to oral frusemide

Encourage patient to maintain oral fluid intake of 1000-2000ml per day. FOR OUT PATIENT BEP THIS IS MANDATORY <u>Medical review daily prior to treatment</u>. In the event of a patient being unsuitable to continue with outpatient regime then transfer to ward delivery must be arranged without deferral.

Pre-medication

N/A

Emetogenicity

Highly emetogenic

Additional supportive medication

If bulky disease give rasburicase prior to first day cycle 1 of treatment, monitor for tumour lysis syndrome and discharge with allopurinol 300mg OD

Investigations – pre first cycle

Calculated creatinine clearance CT thorax/abdo/pelvis Audiometry Sperm banking FBC, U&E, LFT incl. LDH, Uric Acid, Mg, Ca, AFP, βHCG

Investigations -pre subsequent cycles

Weekly:

FBC, U&E, LFT incl LDH, Uric Acid, Mg, Ca, AFP, βHCG

Day 1 only:

Chest X-ray (if metastases present)

Repeat GFR only if calculated clearance <60 ml/min (Cockcroft formula)

Standard limits for administration to go ahead

ANY DEFERRAL NEEDS TO BE DISCUSSED WITH CONSULTANT AS TREATMENT DELAYS HAVE NEGATIVE EFFECT ON OUTCOME

Investigation	Limit	
Neutrophil count	≥ 0.5 x 10 ⁹ /L	
Platelet count	$\geq 50 \times 10^9 / L$	
НВ	Any (transfuse if <90g/I)	
Creatinine clearance	≥ 50 mL/min	
Bilirubin	≤ 1.5 x ULN	
AST	< 1.5 x ULN	

Dose modifications

GFR < 50ml/min or Neurotoxicity > grade 2 - replace Cisplatin with Carboplatin AUC 6

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

Nausea/vomiting

Alopecia

Infertility (some reversibility within 2 years of treatment)

Mucositis

Skin rash

Peripheral neuropathy

Ototoxicity (tinnitus/deafness)

Renal toxicity, electrolyte disturbance (especially Magnesium loss)

Myelosuppression

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

RESPONSIBILITY FOR THIS PROTOCOL LIES WITH THE HEAD OF SERVICE

Date: November 2020 Review: November 2022

VERSION: 1