

VIP

(Etoposide, ifosfamide, cisplatin)

Indication

Germ cell tumours (for use in UKP3BEP trial only)

Regimen details

Etoposide 100mg/m ²	1 litre 0.9% sodium chloride over 1 hour
Potassium chloride 20mmol & Magnesium sulphate 10mmol	1 litre 0.9% sodium chloride over 2 hours
Cisplatin 20mg/m ²	500ml 0.9% sodium chloride over 1 hours
Potassium chloride 20mmol & Magnesium sulphate 10mmol	1 litre 0.9% sodium chloride over 2 hours
Ifosfamide 1200mg/m ²	500ml 0.9% sodium chloride over 1 hours

Given daily for 5 days

Cycle frequency

Repeated every 21 days

Number of cycles

3-4 cycles

Administration

DIPSTICK URINE FOR BLOOD DURING INFUSION

Emetogenicity

Highly emetogenic

Additional supportive medication

Mesna 600mg/m² with ifosfamide, then 600mg/m² over 15 minutes in 50ml 0.9% sodium chloride 4 and 8 hours later
Filgrastim 5mcg/kg daily for 7 days starting on day 6

Investigations – pre first cycle

CT Thorax, Abdo, Pelvis
Audiometry
Baseline bloods: FBC, U&E, LFT, Ca, Uric Acid, Mg, LDH, AFP, HCG
Sperm banking
Discuss need for contraception
Written informed consent for course

Investigations –pre subsequent cycles

Weekly: FBC, U&E, LFT, LDH, AFP, HCG
Prior to day 1: Cockcroft > 60ml/min, CXR, medical review

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	$\geq 1.0 \times 10^9/L$
Platelet count	$\geq 100 \times 10^9/L$
Creatinine clearance	$\geq 60 \text{ mL/min}$
Bilirubin	<26
AST	<60

Dose modifications

EVERY DOSE MODIFICATION HAS TO BE DISCUSSED WITH CONSULTANT

Dose modification for renal dysfunction	
CrCl	Etoposide Dose
>60	Give 100% dose
46-60	Give 85% dose
30-45	Give 80% dose
<30	Give 75% dose
<15	Give 50% dose
CrCl	Cisplatin Dose
>60	Give 100%
51-60	Give 75%
40-50	Give 50%
<40	Contraindicated
Dialysis	Give 50%
CrCl	Ifosfamide Dose
> 60	100%
40-59	70%
<40	Clinical decision
Dose modification for hepatic impairment	
Bilirubin < 26 or AST < 60	Etoposide 100% dose
Bilirubin 26-51 or AST 60-180	Etoposide 50% dose
Bilirubin >51 or AST >180	Omit etoposide
Ifosfamide not recommended in patients with bilirubin >21 or AST > 2.5 x ULN	
Dose modification for encephalopathy	
Any grade 2+ personality change, seizure, confusional state indicating encephalopathy	Omit ifosfamide

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

Toxicities:

Neutropenic sepsis & thrombocytopenia	Nausea & vomiting (severe)
Amenorrhoea & infertility (offer semen cryopreservation)	Peripheral neuropathy
Encephalopathy (Ifosfamide)	Mucositis
Tinnitus/deafness (Cisplatin)	Alopecia
Nephrotoxicity	Haemorrhagic cystitis (Ifosfamide)

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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VERSION: 2
