

VCP

INDICATION (ICD10) C71, C72

1. Medulloblastoma and PNET following radiotherapy.

PS 0, 1, 2

REGIMEN

Day 1 CISPLATIN 70mg/m² in 1000ml sodium chloride 0.9% infusion over 2 hours

LOMUSTINE (CCNU) 75mg/m²(maximum 200mg) orally single dose only

Days 1 and 8 VINCRISTINE 1.5mg/m² (maximum 2mg) in 50ml sodium chloride 0.9% IV

infusion over 10 minutes

CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 42 days for 6 cycles starting 6 weeks after radiotherapy.

ADMINISTRATION

Lomustine available as 40mg capsules Take at night on an empty stomach

ANTI-EMETICS

High emetic risk day 1

Minimal emetic risk day 8

Patients may already be taking dexamethasone for raised intracranial pressure

CONCURRENT MEDICATION REQUIRED

Cisplatin	Ensure adequate pre and post hydration.
	If urine output is <100 ml/hour or if patient gains >2kg in weight during IV
	administration post cisplatin give 20-40 mg furosemide PO/IV.
Lomustine	Lorazepam 1mg single dose

EXTRAVASATION AND TYPE OF LINE / FILTERS

Cisplatin – exfoliant

Vincristine - vesicant

Central or peripheral line

INVESTIGATIONS

Blood results required before SACT administration

FBC, U&E, Mg^{++'} and LFTs and creatinine every 42 day 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.

Baseline weight and every cycle

MAIN TOXICITES AND ADVERSE REACTIONS

Cisplatin	Nephrotoxicity – ensure adequate pre and post hydration is prescribed.
	Ototoxicity – assess patient for tinnitus or hearing abnormalities.
Lomustine	Myelosuppression
Vincristine	Neurotoxicity

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INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stockleys)

Cisplatin	Aminoglycosides increased risk of nephrotoxicity and ototoxicity. Renal
	function should be well monitored and audiometric tests as required.
	Cisplatin 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

Lomustine and cisplatin (not vincristine)

If neutrophils $<1.5x10^9/l$ and platelets $<100x10^9/l$, delay 1 week or until count recovered then restart at 75% dose, then at 50% dose with further myelosuppression can be reduced further to 25% dose.

Non-haematological

Cisplatin

Significant neourotoxicity consider substituting with carboplatin

Vincristine

Epileptic seizure or ileus Stop vincristine in this course, reduce to 1mg/m² next course.

After recovery give vincristine at 100% dose.

Significant dysaethesia Omit vincristine until recovery, muscle weakness or abdominal pain

After recovery give vincristine at 100% dose

Hepatic impairment

Vincristine

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Bilirubin 25-51 or AST 60-180u/L	give 50%
Bilirubin >51micromol/L and normal AST	give 50%
Bilirubin >51micromol/L and AST >180u/L	omit

Renal impairment

Cisplatin

GFR >60ml/min	give 100% dose
GFR 45-60ml/min	give 75% dose
GFR <45ml/min	Omit dose

Lomustine

Lemacane		
CrCl >60ml/min	give 100%	
CrCl 45-60ml/min	give 75%	
CrCl 30-45ml/min	give 50%	
CrCl <30ml/min	Not recommended	

REFERENCES

- 1. Guidelines for the management of medulloblastoma following closure of the HIT-SIOP PNET 4 study. Version 2.0 (28-02-2007)
- 2. www.bnos.org.uk Adult PNET rare tumour guidelines

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