

CYCLOPOSPHAMIDE ETOPOSIDE – local funding required

INDICATION (ICD10) C71.6

1. Medulloblastoma or other widespread intracranial tumour (unlicensed). PS 0, 1, 2

REGIMEN

Days 1 to 21 ETOPOSIDE 100mg (50mg if heavily pretreated) orally once daily Days 22 to 42 CYCLOPHOSPHAMIDE 100mg orally once daily

CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 42 days for up to 1 year

ADMINISTRATION

Cyclophosphamide is available as 50mg tablets. Etoposide is available as 50mg and 100mg capsules

ANTI-EMETICS

Low emetic risk

CONCURRENT MEDICATION REQUIRED

Sodium valproate 20mg/kg/day po days 1 to 42 Co-Trimoxazole 480mg OD on Monday, Wednesday and Friday

EXTRAVASATION AND TYPE OF LINE / FILTERS

Not applicable

INVESTIGATIONS

Blood results required before SACT administration FBC, U&E and LFTs days 1 and 14, then monthly Neutrophils $x \cdot 10^9/L \ge 1.5$ Platelets $x \cdot 10^9/L \ge 100$ Baseline weight and every cycle

MAIN TOXICITES AND ADVERSE REACTIONS

Cyclophosphamide may irritate bladder, drink copious volumes of water.

INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS (not exhaustive list check SPC/BNF/Stockleys)

Cyclophosphamide	Cytochrome P450 enzyme inducers (e.g. rifampicin, carbamazepine,
	phenytoin, St Johns Wort, corticosteroids): may increase active
	cyclophosphamide metabolites.
	Allopurinol, Cimetidine and protease inhibitors: may increase active
	metabolites.
	Aprepitant, Ciprofloxacin, Fluconazole, Itraconazole: may reduce activation
	of cyclophosphamide and alter the effectiveness of treatment.
	Grapefruit juice: decreased or delayed activation of cyclophosphamide.
	Patients should be advised to avoid grapefruit juice.

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DOSE MODIFICATIONS

Haematological

Platelets <100 or neutrophils <1.5x10⁹/L delay until recovered and then give 50% dose of both drugs

Hepatic impairment

Etoposide

Renal impairment

Cyclophosphamide

GFR >20ml/min	give 100% dose
GFR 10-20ml/min	give 75% dose
GFR <10ml/min	give 50% dose

Etoposide

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

REFERENCES

1. Adaptation from SIOP High Risk Medulloblastoma maintenance therapy proposal

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