

CVP

An option for first-line or subsequent treatment of CLL, follicular and other indolent NHL
Aggressive cases of NHL not suitable for anthracycline based regimens

Drugs / Dosage:	Cyclophosphamide	750mg/m ²	IV	Day 1
	Vincristine	1.4mg/m ² (max 2mg)	IV	Day 1
	Prednisolone	100mg (fixed dose)	PO	Days 1, 2, 3, 4 and 5

Age > 60 yrs and pre-existing constipation or neurological problems, consider vincristine dose of 1mg. If in doubt, check with Consultant.

Administration: Vincristine administered via fast running infusion of 0.9% Sodium Chloride
Cyclophosphamide given as a bolus

Other Drugs: Allopurinol 300mg po daily, ideally starting 24 hours before chemotherapy – review after 3 weeks
Use of proton pump inhibitor or H₂ receptor antagonist (e.g. ranitidine) is recommended whilst treating with steroids.

Frequency: 3 weekly cycle
Stage IA NHL: 3 – 4 cycles, with IF radiotherapy
Stage II – IV NHL: Treat to CR or maximum response plus 2 more cycles, for a minimum of 6 cycles and a maximum of 8 cycles

Main Toxicities: myelosuppression; alopecia; mucositis; haemorrhagic cystitis;
peripheral neuropathy; constipation; ovarian failure; infertility

Anti – emetics: Moderately emetogenic (but oral dexamethasone not needed due to prednisolone; dexamethasone iv is optional)

Extravasation: Vincristine is a vesicant

Regular	FBC	Day 1
Investigations:	LFT	Day 1
	U&Es	Day 1
	LDH	Day 1

Dose Modifications

Haematological Toxicity: If neutrophils < 1.0 x 10⁹/l or platelets < 100 x 10⁹/l on Day 1, delay chemotherapy until FBC recovered, then continue with 20% dose reduction of cyclophosphamide

If low counts are due to marrow infiltration, discuss with Consultant.

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Prepared by Oncology Pharmacist: S Taylor	Checked by Network Pharmacist: Jacky Turner

Renal Impairment: If serum creatinine above normal range, estimate creatinine clearance using Cockcroft & Gault and dose cyclophosphamide accordingly.

CrCl (ml/min)	Cyclophosphamide Dose
> 50	Give 100%
10 – 50	Give 75%
< 10	Give 50%

Hepatic Impairment:

Bilirubin (µmol/l)	ALT / AST (units/l)	Vincristine Dose
26 – 51 or	60 – 180	Give 50%
> 51 and	Normal	Give 50%
> 51 and	> 180	Omit

Neurotoxicity: Give 50% vincristine dose if Grade 2 motor and/or Grade 3 sensory toxicity
If in doubt, discuss with Consultant.

Patient Information: CancerBACUP leaflets for Cyclophosphamide and Vincristine

Reference: Rosenberg, S.A.; JCO (1985); 3: 299 – 310

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