

MODIFIED 'R-CHOP-LIKE' CHEMOTHERAPY

INDICATION: Non-Hodgkin's lymphoma where anthracyclines are contraindicated due to cardiac disease

Prior to a course of treatment:

- Check FBC. Patient must have adequate marrow reserve - neutrophils >1.0, platelets >75 unless cytopaenia is due to disease, e.g marrow infiltration, splenomegaly
- Check U&Es, creat, LFTs – *see dose modifications & discuss with consultant if abnormal*
- Check Hep B & C serology
- Written consent for course

Prior to each cycle:

- Medical review of fitness for chemotherapy – exclude active infection, major changes in organ function
- Check FBC, U&Es, creat, LFTs - neutrophils should be >1.0 and platelets >75 (*see dose modification*)

Rituximab	375mg/m ² in 0.5L N saline	IV	day 1 (<i>see protocol for rituximab</i>)
Cyclophosphamide	750mg/m ²	IV bolus	day 1
Etoposide	50mg/m ²	IV in 0.5L N saline over 1hr	day 1
Vincristine	1.4mg/m ² *	IV bolus	day 1
Prednisolone	40mg/m ²	PO	days 1-5
Etoposide	100mg/m ²	PO**	days 2 and 3

* max. 2mg ** 50mg and 100mg capsules

Cycle to be repeated every 21 days for up to 8 cycles

Prophylaxis for acute emesis Ondansetron 8mg po 8-12hrly

Prophylaxis for delayed emesis Ondansetron 8mg po 8-12hrly and metaclopramide 10-20mg 4-6hrly

Other medications Allopurinol 300mg od days 1-5 for cycle 1

Nystatin 1ml qds for 7 days

Dose modification for haematological toxicity or infection

- Neutrophils < 1.0 on day 1 Delay 1 week and proceed at 100% if they recover
- Neutrophils remain < 1.0 despite delay Give GCSF for up to 1 week
- If no recovery despite GCSF Further treatment may be inappropriate - *discuss with consultant*

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| <ul style="list-style-type: none"> • If treatment is delayed > 1 week, or >1 delay, or an episode of neutropenic sepsis • If further treatment delay or neutropenic sepsis despite GCSF | <p>GCSF prophylaxis with subsequent cycles</p> <p>Consider proceeding at 50-75% dose cyclophosphamide & etoposide – <i>discuss with consultant</i></p> |
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Dose modification for thrombocytopenia (unless due to lymphoma)

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| <ul style="list-style-type: none"> • Platelets <75 on day treatment due | <p>Delay cycle 1-2 weeks – if no recovery consider proceeding at 50-75% dose cyclophosphamide & etoposide or proceed at 100% dose with platelet support - <i>discuss with consultant</i></p> |
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Dose modification for liver dysfunction (unless due to lymphoma)

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| <ul style="list-style-type: none"> • Bilirubin <1.5 x upper limit of normal • Bilirubin 1.5 – 3.0 x upper limit of normal • Bilirubin > 3 x upper limit of normal | <p>100% dose etoposide & vincristine</p> <p>50% dose etoposide & vincristine</p> <p>25% dose etoposide, omit vincristine or re-consider whether modified CHOP is appropriate</p> |
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Dose modification for renal dysfunction

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| <ul style="list-style-type: none"> • Creat. Clearance <10ml/min | <p>'Modified CHOP' may be inappropriate or consider 50% dose cyclophosphamide – <i>discuss with consultant</i></p> |
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Dose modification for vincristine neurotoxicity

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| <ul style="list-style-type: none"> • Grade 2 motor (<i>mild objective weakness interfering with function but not with activities of daily living</i>) or grade 3 sensory (<i>sensory loss or paraesthesia interfering with activities of daily living</i>) toxicity • Neurological toxicity increases despite reduction. | <p>Reduce vincristine dose to 1mg</p> <p>Stop vincristine</p> |
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'Modified R-CHOP like' toxicities

Neutropenic sepsis	Mucositis
Thrombocytopenia	Sensory & motor neuropathy
Nausea & vomiting (moderate)	Autonomic neuropathy (constipation, ileus)
Alopecia	Amenorrhoea & infertility (offer semen cryopreservation)
Hyperglycaemia	Jaw pain
Haemorrhagic cystitis	Hypotension, chest pain, dyspnoea, flushing and bronchospasm (etoposide)
Fever, hypotension, rigors, anaphylaxis (rituximab)	Hyperglycaemia
Progressive multifocal leucoencephalopathy	

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