LSCCN HAEMATOLOGY PROTOCOLS

VRCAP

INDICATION: Previously untreated mantle cell lymphoma

Prior to a course of treatment:

- Assess cardiac function by history & exam, ECG and CXR. If there is evidence of cardiac disease or risk factors, prior anthracyclines or patient > 70yrs perform a MUGA scan. If LVEF< 50% discuss with consultant
- 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 hepatitis B & C serology
- Check renal and liver function see dose modification and discuss with consultant if abnormal
- If appropriate discuss possibility of pregnancy with female patients and need for contraception with both male and female patients. Discuss risk of infertility - offer semen cryopreservation to male patients
- 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 neutrophils should be >1.5 and platelets > 75 unless due to lymphoma (see dose modifications) Discuss with Consultant

Rituximab	375mg/m ² in 0.5L N saline	IV	day 1 (see protocol for rituximab)
Cyclophosphamide	750mg/m ²	IV bolus	day 1
Doxorubicin	50mg/m ²	IV bolus	day 1
Bortezomib	1.3mg/m ²	subcutaneous	Days 1, 4, 8, 11 (allow at least 72 hours between doses)
Prednisolone	100mg/m ²	РО	days 1-5
Cycle to be repeated every 21 days for up to 8 cycles			

Prophylaxis for acute emesis 5HT antagonist

Prophylaxis for delayed emesis 5HT antagonist + metoclopramide 3-4 days

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

Anti-infective prophylaxis according to local policy

Consider GCSF prophylaxis

Dose modification for neutropenia (unless due to lymphoma) and 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

• If treatment is delayed > 1week, or >1 delay, or an

episode of neutropenic sepsis

GCSF prophylaxis with subsequent cycles

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If further treatment delay or neutropenic sepsis despite GCSF

proceeding 50-75% dose Consider at cyclophosphamide & doxorubicin - discuss with

consultant

Dose modification for thrombocytopenia (unless due to lymphoma)

Delay cycle 1-2 weeks - if no recovery consider Platelets <75 on day 1

proceeding at 50-75% dose cyclophosphamide & doxorubicin or proceed at 100% dose with platelet

support if needed - discuss with consultant

Consider platelet support if count <25 to avoid delay Platelets < 25 on days 4, 8 or 11

or omit bortezomib (discuss options with consultant)

For cardiotoxicity

If symptoms or signs of cardiac failure develop, discontinue doxorubicin and measure LVEF by MUGA

scan. Inform consultant.

Consider substituting doxorubicin with etoposide (see 'modified CHOP-like' protocol) - discuss with

consultant

For liver dysfunction (unless due to lymphoma)

Bilirubin <1.5x upper limit of normal 100% dose doxorubicin

50% dose doxorubicin. Reduce bortezomib to Bilirubin 1.5 – 3 x upper limit of normal

0.7mg/m² for 1st cycle and adjust dose (to 0.5mg/m²

or 1mg/m²) for subsequent cycles based on

tolerability

Bilirubin > 3 x upper limit of normal Consider 25% dose of cyclophosphamide and

doxorubicin. Adjust bortezomib dose as above

For renal dysfunction

If Creat. Clearance <10ml/min Consider stopping cyclophosphamide and

doxorubicin or using 50% cyclophosphamide. Consider reducing bortezomib -discuss

consultant

For bortezomib neurological toxicity

Grade 1 with pain or Grade 2 (moderate symptoms; limiting instrumental Activities of Daily Living (ADL)

Reduce bortezomib to 1mg/m² or change schedule to 1.3mg/m² weekly

Grade 2 with pain or Grade 3 (severe symptoms:

limiting self-care ADL)

Withhold bortezomib until symptoms have resolved.

Restart at 0.7mg/m² per week

Grade 4 (life-threatening consequences; urgent intervention indicated) and/or severe autonomic

neuropathy

Discontinue bortezomib

Toxicities

Mucositis Neutropenic sepsis

Thrombocytopenia Sensory & motor neuropathy

Nausea & vomiting (moderate) Autonomic neuropathy (constipation, ileus)

Alopecia Amenorrhoea & infertility (offer semen cryopreservation)

Cardiomyopathy Jaw pain

Hyperglycaemia Haemorrhagic cystitis

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Fever, hypotension, rigors, anaphylaxis (rituximab)

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Reference

N Engl J Med. 2015 Mar 5;372(10):944-53. doi: 10.1056/NEJMoa1412096