# **Haematology Oncology Protocols**

# RITUXIMAB-BORTEZOMIB (subcutaneous)-DEXAMETHASONE

INDICATION: Waldenstrom's macroglubulinaemia

#### Prior to a course of treatment

- Check creatinine clearance see dose modification.
- Assess cardiac function by history and exam with ECG, CXR. Consider MUGA scan if abnormal. Note bortezomib is contraindicated if severe cardiac impairment.
- Assess for peripheral neuropathy –may worsen on therapy; contraindicated if ≥ Grade 3 sensory
- Check FBC neutrophils must be > 0.5, platelets >25 unless due to marrow infiltration
- Check LFTs see dose modification
- Check hepatitis B & C serology
- If appropriate discuss possibility of pregnancy with female patients and need for contraception with both male and female patients. Discuss potential for 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, creat, LFTs see dose modification. Discuss with consultant if renal or hepatic function have changed significantly.
- Encourage patient to drink 3 L fluid daily

#### Prior to each dose

- Reassess for peripheral neuropathy see dose modifications
- · Check FBC give blood product and GCSF support as necessary during the cycle

Bortezomib 1.3mg/m<sup>2</sup> od subcutaneous days 1, 4, 8 and 11 **or** twice a week **but** allow at least 72hrs between each dose (state dates on prescription)

Dexamethasone 20mg od PO days 1-2, 4-5, 8-9 and 11-12

Rituximab 375mg/m<sup>2</sup> IV in 500ml 0.9% NaCl day 11

### Repeat cycle every 21 days

- Plan to give at least 2 cycles to assess response
- If CR is achieved give an additional 2 cycles up to a maximum of 6 cycles
- If there is partial or marginal response give an additional 2 cycles after plateau up to max. 8 cycles
- If patient fails to reach at least a minimal response after 4 cycles consider stopping bortezomib discuss with consultant
- Infuse rituximab according to protocol, rapid infusion after cycle 1 may be appropriate

Anti-emetic prophylaxis

Metoclopramide

Other medications

Allopurinol 300mg od (100mg if Cr.Cl <20ml/min) for cycle 1

Aciclovir 400mg bd recommended

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#### Bortezomib dose modifications:

### Neutropenia (unless due to disease)

• Neutrophils <0.5 or platelets <25 on day 1 of cycle

Stop until > 1.0 then restart at 1.0  $mg/m^2$  if initially  $1.3mg/m^2$  or 0.7  $mg/m^2$  if initially  $1.0mg/m^2$ 

OR

GCSF prophylaxis

• No resolution of neutropenia or recurs at 0.7mg/m<sup>2</sup>

Consider stopping treatment – discuss with consultant

#### Thrombocytopenia (unless due to disease)

• Platelets <25 on day 1 of cycle

Stop until >25 then restart at 1.0 mg/m<sup>2</sup> if initially 1.3mg/m<sup>2</sup> or 0.7 mg/m<sup>2</sup> if initially 1.0mg/m<sup>2</sup>

OR

Support with platelet transfusion

 No resolution of thrombocytopenia or recurs at 0.7mg/m<sup>2</sup> Consider stopping treatment – discuss with consultant

# Peripheral neuropathy

 Grade 1 (but no pain) i.e loss of tendon reflexes or paraesthesiae but not interfering with function No change

 Grade 1 with pain or Grade 2, i.e objective sensory loss or paraesthesia interfering with function but not activities of daily living Reduce to 1.0mg/m<sup>2</sup>

 Grade 2 with pain or Grade 3, i.e sensory loss or paraesthesia interfering with activities of daily living Withhold until symptoms resolve, then restart at 0.7mg/m<sup>2</sup> at <u>once</u> a week. If symptoms fail to resolve within 2 weeks – stop treatment

 Grade 4, i.e permanent sensory loss that interferes with function Discontinue bortezomib

#### Renal dysfunction

• If < 30ml/min discuss with consultant. Note that the incidence of serious adverse effects increases with mild-moderate renal impairment. Patients have been treated safely when the creatinine clearance is<30ml/min and on dialysis but monitor carefully for toxicities if renal function is impaired.

#### Liver dysfunction

The major route of bortezomib excretion is hepatic and there is limited on the use of bortezomib in patients
with hepatic impairment. If bilirubin >30μmol/L use with caution, monitor closely for toxicity and consider dose
reduction – discuss with consultant

# Diarrhoea

 If ≥ grade 3 diarrhoea, i.e increase of ≥ 7 stools/day over baseline, incontinence, hospitalization with >24 hrs IV fluids Reduce dose to 1.0mg/m<sup>2</sup>, then 0.7mg/m<sup>2</sup> if symptoms persist

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**Toxicities** 

Thrombocytopenia Nausea

Neutropenic sepsis Fatigue

Fluid retention & cardiac failure Diarrhoea, constipation & ileus

Peripheral neuropathy (may be painful) Hypotension

Fatigue, malaise, weakness Irritation at injection site (bortezomib)

Fever, chills, hypotension, rigors & anaphylaxis (rituximab) -

usually first dose only

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