BENDAMUSTINE- RITUXIMAB (LYMPHOMA)

INDICATION: Follicular lymphoma, mantle cell lymphoma

Prior to a course of treatment

- Check renal and liver function if abnormal discuss with consultant & see dose modification
- Check FBC. Patient should have adequate bone marrow reserve, i.e neutrophils > 1.0, platelets >75 unless cytopaenia is due to disease, e.g marrow infiltration, splenomegaly *if not discuss with consultant*
- Note tumour lysis syndrome has been reported with 1st cycle maintain hydration, allopurinol prophylaxis (see below), monitor biochemistry
- Inform blood transfusion that all blood products must be irradiated
- 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, creat, LFTs neutrophils should be >1.0 and platelets >75 (see dose modification)

Day 1	Rituximab	375mg/m ²	IV in 500ml N saline (see protocol for rituximab)	
Days 1 and 2	Bendamustine	90mg/m ²	IV in 0.5L N saline over 30 – 60mins	
Repeat cycle every 28 days for max. 6 cycles				
Prophylaxis for acute emesis			Ondansetron + dexamethasone	
Prophylaxis for delayed emesis			Metoclopramide	
Other medications	S		Allopurinol with cycle 1 (excluding days 1 and 2 – severe skin reactions have been reported if given with bendamustine)	

Dose modification for haematological toxicity (unless due to disease)				
•	Neuts > 1.0 and plats > 75	Proceed with bendamustine 100% dose		
•	Neuts <1.0 and/or platelets<75 when cycle due	Delay for up to 2 weeks and proceed if parameters met – if not met reconsider suitability for bendamustine		
•	If treatment delayed due to neutropenia <1.0	Proceed at 100% dose with GCSF support		
•	If treatment delayed due to neutropenia despite GCSF	Proceed with 75% dose Bendamustine for first delay, 50% for second delay		
•	If treatment delayed due to neutropenia despite GCSF and dose reduction	Proceed with 50% bendamustine		
•	If treatment delayed due to platelets <75 when treatment due	Proceed with 75% dose bendamustine for first delay, 50% for second delay		

Lancashire & South Cumbria Cancer Network Chemotherapy Protocol

• Treatment delay due to thrombocytopenia despite Reconsider suitability for bendamustine

dose reduction to 50%

Dose modification for renal dysfunction

Creat. Clear <40ml/min
Bendamustine has not been studied in this group –

clinical decision

Creat clearance 40 – 60ml/min Limited information – clinical decision. Use with caution.

For liver dysfunction (unless due to disease)

Moderate dysfunction – AST > 2.5 X ULN and bili Bendamustine has not been studied in this group of

>50 X ULN patients – clinical decision. Use with caution.

Mild dysfunction – AST 1 – 2.5 X ULN, bili 20-50
Reduce Bendamustine by 30%

Bendamustine Toxicities

Neutropenic sepsis & thrombocytopenia Nausea & vomiting

Amenorrhoea & infertility (offer semen cryopreservation) Constipation

Diarrhoea Fatigue

Infusion reactions – fever, rigors, hypotension, pruritus Rash

Mucositis Transient elevation of serum creatinine

Tumour lysis syndrome with 1st cycle See also rituximab toxicities

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