



Systemic Anti Cancer Therapy Protocol

Bendamustine Monotherapy (Trust Funded) Hodgkin's Lymphoma

PROTOCOL REF: MPHABMTFHL (Version No. 1.0)

Approved for use in:

• Relapsed/refractory Hodgkin's Lymphoma in patients that have exhausted other treatment options (off label indication)

Bendamustine is not routinely funded by NHS England for this indication so Blueteq submission is not required, therefore approval from the Trust compassionate use panel is required prior to initiation.

Dosage:

Drug	Dose	Route	Frequency
Bendamustine	90 mg/m²	IV infusion	Days 1 and 2

Cycle length every 28 days. Maximum of 6 cycles.

Administration:

 Patients will required irradiated blood products (lifelong) –the patients receive information booklets about irradiated blood when counselled by the specialist nurses. It contains an alert card that the patient carries around with them. The specialist nurses then contact the lab to inform them of the need for irradiated blood products.

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Emetogenic risk:

Moderately emetogenic.

Supportive treatments:

Bendamustine pre-infusion medicines:

• Ondansetron IV 8mg

Supportive medicines:

- Allopurinol PO 300mg once daily for first cycle (or 100mg in renal severe renal dysfunction). Consider rasburicase if high risk of tumour lysis syndrome.
- Aciclovir PO 400mg twice daily is not generally required but may be given at the discretion of the prescriber.
- Co-trimoxazole PO 480mg once daily (continue for 3-6 months after treatment)
- Metoclopramide PO 10mg three times daily when required
- Ondansetron PO 8mg twice daily for 5 days
- Secondary prophylaxis with filgrastim s/c once daily for 5 days starting on day 5 of the cycle (30 million units if < 70 kgs or 48 million units if > 70 kgs)

Extravasation risk:

Bendamustine: irritant

Refer to the CCC policy for the 'Prevention and Management of Extravasation Injuries'

Dosing in renal and hepatic impairment:

Renal	Bendamustine	No dose adjustment needed
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		Bilirubin (µmol//L)	Modification
Hepatic	Bendamustine	20 - 51	70% dose
	Denualhustine	>51	Not recommended

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Interactions:

Bendamustine metabolism involves cytochrome P450 (CYP) 1A2 isoenzyme. Therefore, potential for interaction with CYP1A2 inhibitors such as fluvoxamine, ciprofloxacin, aciclovir or cimetidine exists

For more detailed interactions please refer to the SPC and add a link to the appropriate SPC

Treatment schedule:

Day	Drug	Dose	Route	Diluent and rate
1	Ondansetron	8mg	IV	30 minutes before chemotherapy
	Bendamustine	90mg/m2	IV	In 500 mls of sodium chloride 0.9% over 60 minutes
2	Ondansetron	8mg	IV	30 minutes before chemotherapy
	Bendamustine	90mg/m2	IV	In 500 mls of sodium chloride 0.9% over 60 minutes

Main toxicities:

Bendamustine Thrombocytopenia, neutropenia, anaemia, nausea, vomiting, diarrhoea, allergic reactions, fever, hepatitis B reactivation, non-melanoma skin cancers, tumour lysis syndrome and cardiac disorders, AST/ALT increase.

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Investigations and treatment plan:

	Pre	Cycle 1	Cycle 2	Cycle 3+	Ongoing
Informed Consent	Х				
Clinical Assessment	х	x	x	х	Every cycle
FBC	х	Х	х	Х	Every cycle
U&E & LFTs	Х	Х	х	Х	Every Cycle
CrCl (Cockcroft and Gault)	Х	х	х	х	Every cycle
Hepatitis B core antibody & surface antigens, Hepatitis C & HIV 1+2	х				
PET-CT scan	Х				After 2-4 cycles and at end of treatment if palpable disease
ECG					If clinically indicated
Blood pressure measurement	х				Repeat if clinically indicated
Respiratory Rate					If clinically indicated
Height recorded	х				
Weight recorded	Х	Х	х	Х	Every cycle
Blood glucose	Х				Repeat if clinically indicated
Pregnancy test	Х				Where appropriate

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Dose Modifications and Toxicity Management:

Haematological toxicity:

No dose modifications are required for cycle 1.

Subsequent cycles to proceed if-

ANC ≥ 1.0 x 10 ⁹ /L	Platelets ≥ 50 x 10 ⁹ /L	
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If ANC < 1 x 10^{9} /L or platelets < 50 x 10^{9} /L then chemotherapy to be delayed until blood counts have increased above these values. Bendamustine is to be dose reduced to 50mg/m^2 for the first episode of cytopenia and reduced to 25mg/m^2 for subsequent episodes

These haematological guidelines assume that patients are well with good performance status, that other acute toxicities have resolved and the patient has not had a previous episode of neutropenic sepsis.

Non- Haematological toxicity:

See 'Dosing in Renal and Hepatic Impairment'

References:

- https://www.medicines.org.uk/emc Bendamustine 180 mg/4 ml Concentrate For Solution for Infusion. Accessed 03/07/2023. Revised 08/06/2022.
- Krens S D, Lassche, Jansman G F G A, et al. Dose recommendations for anticancer drugs in patients with renal or hepatic impairment. Lancet Oncol 2019; 20: e201–08

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Circulation/Dissemination

Date added into Q-Pulse	13 th October 2023
Date document posted on the Intranet	N/A

Version History

		Author name and designation	Summary of main changes
July 2023	1.0	Aileen McCaughey – Advanced HO Pharmacist	New protocol

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