SACT PROTOCOL



Systemic Anti Cancer Therapy Protocol

Oral Melphalan and Prednisolone MYELOMA

PROTOCOL REF: MPHAOMPM

(Version No. 1.0)

Approved for use in:

Treatment of myeloma in patients who are not candidates for autologous stem cell transplantation and who are treated with a palliative intent

Dosage:

Drug	Dose	Route	Frequency
Melphalan	7mg/m ²	РО	Daily on Days 1 to 4 of cycle
Prednisolone	20 to 60mg	РО	Daily on Days 1 to 4 of cycle

Every 4 to 6 weeks until plateau phase (paraprotein level stable for 3 months) then stop

Administration:

 Take prednisolone in the morning with food to avoid sleep disturbance and gastric irritation.

Emetogenic risk:

Low risk

Supportive treatments:

- Allopurinol 300mg OD (first cycle only)
- Aciclovir 400mg BD
- Co-trimoxazole 480mg daily
- Omeprazole 20mg daily (at clinician discretion)

Issue Date: 16 th September 2022 Review Date: 1 st September 2025	Page 1 of 5	e 1 of 5 Protocol reference: MPHAOMPM	
Author: Jade Marsh – Haematology Pharmacist	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.0

SACT PROTOCOL



• Fluconazole 50mg daily (at clinician discretion)

Dosing in renal and hepatic impairment:

Renal	Melphalan	GFR: 30 – 50 mL/min GFR: < 30mL/min	75% dose Clinical decision
Hepatic	Melphalan	No recommendations, if excess toxicity reduce dose for subsequent cycles	

Interactions:

No interactions of note with low dose oral melphalan.

Main toxicities:

- Neutropenia, thrombocytopenia and anaemia
- Nausea, vomiting, diarrhoea
- Alopecia
- Temporary significant elevation of the blood urea has been seen in the early stages of melphalan therapy in myeloma patients with renal damage

Issue Date: 16 th September 2022 Review Date: 1 st September 2025	Page 2 of 5	Protocol reference: MPHAOMPM	
Author: Jade Marsh – Haematology Pharmacist	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.0

PROTOCOL



Investigations and treatment plan:

	Pre-initiation	Prior to each cycle	Ongoing
Informed Consent	х		
Clinical Assessment	х	х	Continue post treatment as indicated
SACT Assessment (to include PS and toxicities)	х	Х	Every cycle
FBC, U&E & LFTs, bone profile	x	x	Every cycle
CrCl (Cockcroft and Gault)	x	х	Every cycle
Paraprotein, immunoglobulins, serum free light chains, beta 2 microglobulin, electrophoresis and immunofixation.	х	х	Every cycle (can be extended in stable patients at clinician discretion)
Virology screening (Hep B, Hep C, HIV)	x		
CT scan**	х		At the end of treatment and if clinically indicated
Blood glucose	x		If clinically indicated
Respiratory Rate			If clinically indicated
Weight recorded	х	Х	Every cycle
Height recorded	х		

Issue Date: 16 th September 2022 Review Date: 1 st September 2025	Page 3 of 5	Protocol reference: MPHAOMPM	
Author: Jade Marsh – Haematology Pharmacist	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.0

PROTOCOL



Dose Modifications and Toxicity Management:

Haematological toxicity:

Proceed on day of treatment if:

ANC >1.0 x 10 ⁹ /L	Platelets >75 x 10 ⁹ /L

If cytopenias are thought to be disease related then treatment may go ahead at clinician discretion.

Consider the following dose reductions for neutropenia / thrombocytopenia:

Haematological parameter			Dose reduction
ANC <1.0 x 10 ⁹ /L	Or	Platelets <50 x 10 ⁹ /L	Consider dose reduction
If prolonged ANC	Or	If prolonged platelets <25	Reduce dose to 75% original
<0.5 x 10 ⁹ /L		x 10 ⁹ /L with bleeding	dose

These haematological guidelines assume that patients are well with stable performance status, that other acute toxicities have resolved.

Non - Haematological toxicity:

See Section entitled Dosing in Renal and Hepatic Impairment.

Issue Date: 16 th September 2022 Review Date: 1 st September 2025	Page 4 of 5	Protocol reference: MPHAOMPM	
Author: Jade Marsh – Haematology Pharmacist	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.0

PROTOCOL



References:

- 1. Summary of Product Characteristics, Melphalan 2mg tablets, Aspen. March 2014. Monograph available from: http://www.medicines.org.uk
- 2. Thames Valley Strategic Clinical Network. Myeloma Group. Oral Melphalan +/Prednisolone v4.4. August 2017. Protocol available from: Oxford Myeloma Group
 (oxford-haematology.org.uk)
- South West Clinical Network. Melphalan and Prednisolone v1. January 2020. Protocol available from: <u>Quick Reference Guide - MRSA Topical Eradication</u> (england.nhs.uk)
- 4. 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

Circulation/Dissemination

Date added into Q-Pulse	26 th January 2023
Date document posted on the Intranet	N/A

Version History

VOIGIOIIIII	notor y		
Date	Version	Author name and designation	Summary of main changes
September 2022	1.0	Jade Marsh Advanced HO Pharmacist	V1.0 New Regimen Protocol

Issue Date: 16 th September 2022 Review Date: 1 st September 2025	Page 5 of 5	Protocol reference: MPHAOMPM	
Author: Jade Marsh – Haematology Pharmacist	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0