



# Cyclophosphamide/Total Body Irradiation (TBI)–MAC– Mismatched Unrelated Donor

#### **INDICATIONS FOR USE:**

INDICATION	ICD10	Regimen Code	Reimbursement Status
Myeloablative conditioning (MAC) for mismatched unrelated donor allogeneic stem	C91	00629a	Hospital
cell transplant in patients with lymphoid disorders and acute or chronic leukaemias			

#### TREATMENT:

Conditioning chemotherapy is administered over 8 days. Stem cells are infused on day 0.

Facilities to treat anaphylaxis MUST be present when conditioning therapy and stem cells are administered.

- (· )	_			
Day (time)	Drug	Dose	Route	Diluent & Rate
- <b>8, -7</b> (09.30)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
<b>-8, -7</b> (10.00)*	Cyclophosphamide	60mg/kg	IV infusion	1000ml sodium chloride 0.9% over 3 hours
<b>-8, -7</b> (13.00)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
<b>-8, -7</b> (16.00)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
<b>-8, -7</b> (19.00)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
<b>-8, -7</b> (22.00)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
<b>-7, -6</b> (02.00)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
<b>-7, -6</b> (06.00)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
<b>-6</b> (10.00)*	Mesna	24mg/kg	Slow IV push	Into side arm of fast flowing sodium chloride 0.9%
				infusion
-6,-5,-4	Fractionated TBI	Twice Daily	n/a	n/a
-3	ATG Grafalon®	20mg/kg	IV infusion	(see note) <sup>a</sup> ml sodium chloride 0.9% over 12 hours <sup>b</sup>
-2, -1	ATG Grafalon®	20mg/kg	IV infusion	(see note) <sup>a</sup> ml sodium chloride 0.9% over 10hours <sup>b</sup>
0	Stem cell infusion			
+1	Methotrexate <sup>c</sup>	15mg/m <sup>2</sup>	IV infusion	50ml sodium chloride 0.9% over 10 minutes
(at Least 24 hours post				
completion of stem cell infusion)				
+3, +6, +11	Methotrexate	10mg/m <sup>2</sup>	IV infusion	50ml sodium chloride 0.9% over 10 minutes
		-		

#### Dose rounding:

Mesna to the nearest 100mg, Cyclophosphamide to the nearest 20mg,

ATG Grafalon® to the nearest 20mg

Methotrexate to the nearest 2.5mg

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<sup>a</sup>Each ml of ATG Grafalon should be diluted with 6ml of sodium chloride 0.9% in accordance with SPC. Pharmacy to complete volume.

<sup>b</sup>Patient monitoring is required during the ATG Grafalon® infusion: BP, pulse, respiration and temperature at 15, 30 and then 60 minute intervals for the duration of the infusion.

If a reaction occurs, the infusion should be slowed. Chills and fever generally respond to antihistamines, antipyretics or corticosteroids. If the patient becomes hypotensive or experiences chest or back pain, indicating anaphylaxis, the infusion should be stopped and the medical team contacted immediately.

Platelets should be >50x10<sup>9</sup>/L pre day 1 ATG Grafalon® treatment. If the patient has no reaction to ATG, platelets can be maintained at >30x10<sup>9</sup>/L for the remaining days of ATG administration. Platelets should be maintained at >50x10<sup>9</sup>/L in the setting of clinically symptomatic bleeding.

<sup>c</sup>Day +1 methotrexate should be administered at least 24 hours post completion of stem cell infusion.

In the event where this timing results in methotrexate being infused during the night, it is reasonable to reschedule the administration time of the day +3 methotrexate dose to the next morning, to avoid administration during the night. The amended administration timing can then be maintained for subsequent methotrexate doses.

\*Denotes recommended administration times

#### **ELIGIBILITY:**

- Indications as above
- Medical assessment as per SJH BMT assessment form

#### **EXCLUSIONS:**

- Hypersensitivity to cyclophosphamide, mesna, ATG Grafalon®, methotrexate or any of the excipients
- Pregnancy and lactation

### PRESCRIPTIVE AUTHORITY:

• The treatment plan must be initiated by a Haematology Consultant working in the area of stem cell transplantation in a unit suitable for carrying out this treatment.

#### **TESTS:**

 Baseline and regular tests in accordance with SJH Haematopoietic Stem Cell Transplant workup protocols

#### **Disease monitoring:**

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

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#### **DOSE MODIFICATIONS:**

- Any dose modification should be discussed with a Haematology Consultant.
- Chemotherapy dosing in obese adult patients: For patients with a BMI > 30kg/m² please refer to 'Chemotherapy Dosing in Obese Adult Stem Cell Transplant Recipients Guidelines' for guidance on individual drug dosing as per SJH policy available on the SJH intranet.
- Renal and Hepatic Impairment:
  - Dose modifications are generally not undertaken in conditioning regimens.
  - Discuss with the consultant if the creatinine clearance is < 50 ml/min or if abnormal hepatic function.
  - Consult the following resources to inform any renal or hepatic dose modification discussions:
    - Summary of product characteristics (SPC) available at <a href="http://www.hpra.ie">http://www.hpra.ie</a>
    - Krens et al Lancet Oncol 2019;20(4) e200-e207 "Dose Recommendations for anticancer drugs in patients with renal or hepatic impairment" available at <a href="https://pubmed.ncbi.nlm.nih.gov/30942181/">https://pubmed.ncbi.nlm.nih.gov/30942181/</a>
    - UCHL renal impairment guidelines and hepatic impairment guidelines available on SJH intranet.

#### SUPPORTIVE CARE:

#### **Antiemetics:**

**Table 1: Recommended SJH Regimen Specific Antiemetics** 

Prevention of act vomiting	ite nausea and	k	Prevention of dela	iyed nausea a	and vomiting	Comment
Drug	Dose	Admin	Drug	Dose	Admin Day	
		Day				
Dexamethasone	12mg PO	-8, -7	Dexamethasone	8mg PO	-6, -5, -4	Exclude aprepitant due to
Ondansetron	8mg PO/IV	-8, -7				interaction with
	TDS					cyclophosphamide

#### Cyclophosphamide hydration and diuresis:

- Pre stem cell infusion: Start pre-hydration at 6.00 am on Day -8
  - o Recommended hydration regimen is sodium chloride 0.9% 2-3L/m<sup>2</sup> over 24 hours
- Continue hydration for at least 24 hours after completion of cyclophosphamide
- Diuretics may be indicated for positive fluid balance, weight gain or declining urine production (<100ml/m²/hr)</li>
  - Furosemide 20-40mg IV PRN should be prescribed

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### ATG Grafalon® supportive medications:

- Methylprednisolone 2mg/kg once daily IV 90mins before commencing ATG on Day -3 to Day -1
- Chlorphenamine 10mg IV 30mins before commencing ATG on Day -3 to Day -1
- Prednisolone 1mg/kg once daily PO (or an equivalent IV alternative) starting on Day 0 and continuing for 5 days
- Taper to zero over next 5 days to prevent serum sickness

### **Other Supportive Care:**

### **Table 2: Other Supportive Medication**

GvHD prophylaxis	Tacrolimus
Refer to signed off BMT	Tacrolimus 0.03mg/kg once daily IV over 22 hours from day -1
assessment form for confirmed	The equivalent oral dose is: (Total IV dose) twice daily PO
choice and target level of	Target levels: 5-10 nanograms/ml
immunosuppression	
GvHD and VOD prophylaxis	Ursodeoxycholic acid 250mg TDS PO
	Continue until day +90
HSV prophylaxis	All patients should receive the following until CD4 count >200/microlitre:  • Valaciclovir 500mg once daily PO  • Aciclovir 250mg TDS IV (if oral route not available or ANC < 0.5X10 <sup>9</sup> /L)
	Patients with an active herpes infection should receive the following:  • Valaciclovir 1g TDS PO  or
	Aciclovir 10mg/kg TDS IV (if oral route not available)
CMV prophylaxis	Patients receiving CMV prophylaxis with letermovir also require HSV
	prophylaxis above
Prescribe for all CMV seropositive recipients	Letermovir 480mg once daily PO/IV, as appropriate, starting Day     +1 if patient is receiving tacrolimus immunosuppression
	Letermovir via the oral route is first line.
	<ul> <li>Letermovir IV at the same oral dose should be prescribed only where the patient cannot tolerate oral or where there are concerns around absorption</li> </ul>
	CMV prophylaxis is usually continued until day +100
	Patients should bring their oral letermovir supply with them on admission. High tech prescription will have been provided to patient at their counselling appointment pre-admission. Liaise with transplant pharmacist if any supply issues arise  When ANC>1.0 x 10 <sup>9</sup> /L, pre-emptive monitoring (9mls in EDTA [purple tube] (Tuesday and Fridays) should be carried out for CMV reactivation/infection in <u>all</u> patients.

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# **NCCP Chemotherapy Regimen**



Antifungal prophylaxis	When A	ANC < 0.5 x 10 9/L or if patients on high dose steroic	ds:
Refer to signed off BMT	•	Liposomal amphotericin 1mg/kg once daily IV N	// Mon/Wed/Fri
assessment form for confirmed	l	<u>or</u>	
choice of antifungal prophylaxis	•	Caspofungin 70mg once daily IV Mon/Wed/Fri	
	If at hig	her risk due to prior possible/probable fungal inf	ection:
	•	Liposomal amphotericin 1mg/kg once daily IV	
	ſ	<u>or</u>	
	•	Caspofungin 70mg once daily IV if >80kg or	
	•	Caspofungin 70mg once daily IV on day 1 of tre by 50mg once daily IV thereafter if <80kg	atment followed
PJP prophylaxis	1st line	therapy:	
, , , , , , , , , , , , , , , , , , ,	•	Co-trimoxazole 960mg BD Mon/Wed/Fri PO	
	•	Commence only on engraftment when ANC > 1	.0x10 <sup>9</sup> /L if
	1	appropriate	
	2nd line	e therapy (if allergic to co-trimoxazole or contrain	ndicated):
	PJP Pro	phylaxis and T. gondii IgG NEGATIVE:	
	•	Pentamidine 300mg nebule and salbutamol 2.5	mg nebule pre-
	ſ	pentamidine, every 4 weeks	
plus			
	Phenoxymethylpenicillin 333mg BD daily PO		
		ue the phenoxymethylpenicillin until patients hav	
	revaccii	nated and have adequate pneumococcal/haemo	philus titres
	PJP Pro	phylaxis and T gondii IgG POSITIVE:	
	•	Atovaquone 750mg BD PO plus	
•		Pyrimethamine 25mg once daily PO plus	
	•	Folinic acid 15mg once daily PO plus	
	•	Phenoxymethylpenicillin 333mg BD daily PO	
		ue the phenoxymethylpenicillin until patients hav	
		nated and have adequate pneumococcal/Haemo note: If a patient is to be discharged on atovaquo	•
		note: If a patient is to be discharged on atovaquo thamine or folinic acid, please contact pharmacy	
		e supply and funding through a community drugs	
Mouthcare		tis WHO grade < 2:	Scheme
Wiodilcare	•	Sodium chloride 0.9% 10ml QDS mouthwash	
	•	Nystatin 1ml QDS PO (use 15 minutes after sod	ium chloride 0.9%
	İ	mouthwash)	idili cilioride 3.375
	Mucositis WHO grade ≥ 2:		
	•	Chlorhexidine digluconate 0.12% (Kin® mouthw	/ash) 10mls QDS
	mouthwash		
	•	Nystatin 1ml QDS PO (use 15 minutes after Kin	® mouthwash)
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Gastroprotection	Lansoprazole 30mg / omeprazole 40mg once daily PO		
	<u>or</u>		
	Esomeprazole 40mg once daily IV (if oral route not available)		
Folate supplementation	Methotrexate is included as GvHD prophylaxis. Folinic acid should not		
	be administered on the same days as methotrexate.		
	The first dose of folinic acid must be administered at a minimum of 24		
	hours post completion of methotrexate. Prescribe as outlined below:		
	• Folinic acid 15mg once daily IV on days +2,+4,+5,+7,+8,+9,+10 and		
	+12 onwards		
Vitamin K supplementation	<ul> <li>Switch to folic acid 5mg once daily PO when oral route is available</li> <li>Beginning on day +2 post stem cell transplant</li> </ul>		
Vitamin K Supplementation	Vitamin K (phytomenadione) 10mg once weekly IV		
Prevention of vaginal bleeding	If required for menstruating female patients until platelets > 50 x10 <sup>9</sup> /L		
	Norethisterone 5mg TDS PO if >55Kg		
	Norethisterone 5mg BD PO if <55kg		
Tumour Lysis syndrome	Consider allopurinol in active disease pre transplant		
	Allopurinol 300mg once daily PO for 5-7 days and review		
Hepatitis B	A virology screen is completed as part of transplant workup. Hepatitis B		
prophylaxis/treatment	prophylaxis or treatment may be initiated in consultation with a Virology		
	Consultant or Hepatology Consultant if required.		
	Options may include:		
	Lamivudine 100mg once daily PO		
	or		
	Entecavir 500mcg once daily PO		
Prevention of constipation	Consider laxatives if appropriate e.g.		
	Senna two tablets (15mg) nocte PO while on ondansetron		
Antibiotic standing order	Antibiotic standing order should be prescribed for neutropenic		
	sepsis/neutropenic fever based on previous microbiology and renal		
	function		
	Piptazobactam 4.5g QDS IV     plus		
	Amikacin* 15mg/kg once daily IV		
	256, 16 000 00, 1		
	*Ciprofloxacin 400mg BD IV may be considered instead of amikacin in		
	cases of renal impairment		
	Refer to Antimicrobial Guidelines in the Prescriber's Capsule for antibiotic		
No an artists	choice where a patient is allergic to any of the above		
Magnesium and potassium	Magnesium and potassium standing orders should be prescribed for all		
standing order	transplant patients in accordance with stem cell unit practice as indicated on EPMAR		
VTE prophylaxis	Consider VTE prophylaxis in accordance with SJH policy		
Bone Health	Consider calcium and vitamin D supplementation prior to discharge for		
	patients who are on high dose steroids. Other medications for		
	maintenance of bone health may need to be considered as appropriate.		
	Calcium carbonate and colecalciferol (Caltrate® 600mg/400unit)		
	one tablet BD		

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#### ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS:

 Please refer to the relevant Summary of Product Characteristics and SJH Stem Cell Transplant Programme PPGs for full details.

#### **DRUG INTERACTIONS:**

 The relevant Summary of Product Characteristics and current drug interaction databases should be consulted.

#### REFERENCES:

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- 2. Improved survival with ursodeoxycholic acid prophylaxis in allogenic stem cell transplantation: Long-term follow-up of a randomised study. Biology of Blood and Marrow Transplantation 2014; 20(1):135-138. Available at <a href="https://pubmed.ncbi.nlm.nih.gov/24141008/">https://pubmed.ncbi.nlm.nih.gov/24141008/</a>
- 3. Veno-occlusive disease/sinusoidal obstruction syndrome after haematopoietic stem cell transplantation: Middle East/North Africa regional consensus on prevention, diagnosis and management. Bone Marrow Transplantation 2017 Apr;52(4):588-591. Available at <a href="https://pubmed.ncbi.nlm.nih.gov/27892944/">https://pubmed.ncbi.nlm.nih.gov/27892944/</a>
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- 7. NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting. V3 2021. Available at:

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   Accessed Nov 2020. Available at:
   <a href="https://www.hpra.ie/img/uploaded/swedocuments/Licence\_PA2299-027-001\_21122018112107.pdf">https://www.hpra.ie/img/uploaded/swedocuments/Licence\_PA2299-027-001\_21122018112107.pdf</a>
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10. Grafalon 20 mg/ml concentrate for solution for infusion. Summary of Product Characteristics. Accessed Nov 2020. Available at:

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Version	Date	Amendment	Approved By
1	06/08/2021		SJH Stem Cell Transplant Group

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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