

Patient Name

Kent & Medway SACT proforma

Date Calculated

Protocol Number
HAEM-ALL-003

Patient Number

Methotrexate (High Dose) and Peg -Asparaginase

Height (m)

Authorising Consultant:
S Nassam / M Aldoufi

DOB

Weight (kg)

Pharmacist:
J Sawyer / O Okuwa

Consultant

Acute Lymphocytic Leukaemia Intensification / CNS prophylaxis

Review by November 16
Version 1

Cycle No.....

Allergies:

Length of cycle: 14 days

No. cycles: 2

Start 2 weeks after completion of Phase 2 induction cycle on haematological recovery.

Surface Area (m²)

Haematological - Proceed with high dose Methotrexate and Peg-Asparaginase module 2 weeks after completion of phase 2 induction and when WBC > 3.0 x 10⁹/L and platelets > 100 x 10⁹/L prior to each dose of Methotrexate. If WBC < 3.0 x 10⁹/L or platelets < 100 x 10⁹/L prior to each dose of HDMTX, delay for one week. If count still not recovered repeat bone marrow aspirate to confirm remission. If confirmed give GCSF until counts recover and proceed. If this still leads to a delay of > 2 weeks discuss with Consultant, dose reduction of 50% may be required.

Renal - GFR must be > 100ml/min prior to the first dose of HDMTX. Follow the following dose reductions for the 2nd and 3rd MTX infusions: GFR > 50ml/min: no dose adjustment needed. GFR 10 to 50ml/min: use 50% dose. GFR < 10ml/min omit.

Hepatic - Peg-Asparaginase should be DISCONTINUED in the presence of pancreatitis (identified by raised amylase or low serum insulin), severe liver dysfunction, life-threatening allergic reactions or thrombosis. Clotting - If fibrinogen < 0.8g/L and/or ATIII is below 70% and/or PTT is > 70 secs at any time after Peg-Asparaginase, replacement therapy with fresh frozen plasma is indicated.

Take methotrexate levels 48 hours after start of Methotrexate infusion and then every 24 hours thereafter until methotrexate level is below 0.05 µmol/L. Continue folic acid until methotrexate levels < 0.05µmol/L. Exclude third space fluids (ascites, pleural effusion) before starting Methotrexate.

Patient must not receive NSAID's, salicylates, sulphonamides or large doses of Penicillin at the same time as Methotrexate. Stop prophylactic Co-trimoxazole one week before therapy with high dose Methotrexate. Sodium Bicarbonate must be infused via a CVC catheter.

Prehydration: start 6-24 hours prior to IV Methotrexate (one line running @ 125 ml/m²/hr). Use in conjunction with separate methotrexate hydration proforma.

Day	Time	Drug	Dose	Route	Infusion Duration	Administration Details	Batch No	Nurses Sign	Start Time	Stop Time
Day 2	T0	Ondansetron	<75yrs 16mg >75yrs 8mg	iv	15 min	NaCl 0.9% 50ml				
	T0	METHOTREXATE (300mg/m ²)		iv	1 hr	NaCl 0.9% 100 ml				
.../.../...	T0	1L 5% glucose +50-100mmol Sodium bicarbonate + 20mmol Potassium chloride		iv	8 hrs					
	T1	METHOTREXATE (2700mg/m ²)		iv	23 hrs	NaCl 0.9% 1000ml, stop infusion at T24				
.../.../...	T1	1L 0.9% NaCl + 50-100mmol Sodium bicarbonate + 20mmol Potassium chloride		iv	8 hrs					
	T1	1L 5% glucose +50-100mmol Sodium bicarbonate + 20mmol Potassium chloride		iv	8 hrs					

Prescriber's Signature & Date:

Pharmacist's Clinical Screen & Date:

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Intensification / CNS prophylaxis
Curative / Non-curative / Remission**

Height (m)

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S Rassam / M Aldouri

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Allergies:

Day	Time	Drug	Dose	Route	Infusion Duration	Administration Details	Batch No	Nurses Signature	Start Time	Stop Time
Day 3		PEG-ASPARAGINASE	1000iu/m ²	iv	60-120 mins	NaCl 0.9% 100ml				
	T36	Folinic acid (15mg/m ²)		iv						
	T39	Folinic acid (15mg/m ²)		iv						
	T42	Folinic acid (15mg/m ²)		iv						
	T45	Folinic acid (15mg/m ²)		iv						
Day 4	T48	Folinic acid (15mg/m ²)		iv						
	T54	Folinic acid (15mg/m ²)		po/iv						
	T60	Folinic acid (15mg/m ²)		po/iv						
	T66	Folinic acid (15mg/m ²)		po/iv						
Day 5	T72	Folinic acid (15mg/m ²)		po/iv						
	T78	Folinic acid (15mg/m ²)		po/iv						

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Day	Time	Drug	Dose	Route	Infusion Duration	Administration Details	Batch No	Nurses Sign	Start Time	Stop Time
Day 5	T84	Folinic acid (15mg/m ²)		po/iv	bolus					
	T90	Folinic acid (15mg/m ²)		po/iv	bolus					
Day 6	T96	Folinic acid (15mg/m ²)		po/iv	bolus					

TTO MEDICATION	Drug	Dose	Route	Directions	Date	Quantity	Disp	Check
	Allopurinol	300mg	po	od first cycle only				
	Metoclopramide	10mg	po	tds orally for 5 days				
	Difflam 0.9% mouthwash,	10ml	top	qds				
	Ranitidine	150mg	po	bd				
	Aciclovir	400mg	po	bd				
	Itraconazole liquid	200mg	po	bd				

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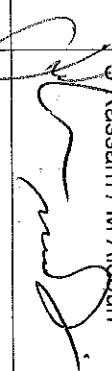
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Area (m²)

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- Continue folinic acid until methotrexate levels <0.05 µmol/L.

Time after starting Methotrexate	Plasma concentration µmol/L	Action
48		
72		
96		
120		

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