Central Manchester University Hospitals **MHS NHS Foundation Trust**





Greater Manchester Interface Prescribing Group Shared Care Template

Shared Care Guideline for	Reference Number
Oral Methotrexate for Rheumatological	Conditions CMFT-SCG-006
Author(s)/Originator(s): (please state author name department) Vanessa Reid, Specialist Clinical Pharmacist, Pharmacist Manchester Hospitals Professor Ian Bruce, Consultant Rheumatologist, The for Rheumatology, Central Manchester Hospitals Dr Rachel Gorodkin, Consultant Rheumatologist, The for Rheumatology, Central Manchester Hospitals Dr Pauline Ho, Consultant Rheumatologist, The Kellg Rheumatology, Central Manchester Hospitals Dr Frank McKenna, Consultant Rheumatologist, Rheumatologist, Trafford General Hospital	with the following documents: Current Summary of Product characteristics (http://www.medicines.org.uk) BNF gren Centre for
Date approved by Commissioners:	Review Date: January 2015

Please complete all sections

1. Licensed Indications	Oral methotrexate is licensed to treat adults with rheumatoid arthritis and is also widely used to treat other inflammatory arthritides and connective tissue diseases.	
2. Therapeutic use & background	Methotrexate is an anti-metabolite cytotoxic drug which inhibits DNA synthesis and cellular replication. It belongs to the group of DMARDs alongside gold, penicillamine, hydroxychloroquine, azathioprine, leflunomide, and sulfasalazine.	
3. Contraindications (please note this does not replace the SPC or BNF and should be read in conjunction with it).	<u>Contraindications</u> - Pregnancy and breast feeding, suspected local or systemic infection, bone marrow failure with unexplained anaemia and cytopenia. Following administration to a man or woman, conception should be avoided by using an effective contraception method for at least 3 months after finished course.	
	<u>Cautions</u> : significant renal impairment from any cause, hepatitis B or C, history of TB, lung fibrosis	
4. Prescribing in pregnancy and lactation	This drug should not be prescribed during pregnancy or while breastfeeding.	
5. Dosage regimen for continuing care	Route of administration CSM warning with methotrexate that doses are weekly and attention should be paid to the strength of methotrexate tablets prescribed and the frequency of dosing. 2.5mg tablets are recommended in Greater Manchester however, patients should be made aware of other strengths and to question possible discrepancies. Dose to be prescribed including units, frequency and duration of treatment. Please prescribe: 7.5-25mg ONCE weekly according to hospital instructions (the initial dose may be 5-15mg once weekly, increasing by 2.5mg-5mg every 2-6 weeks until the disease is stabilized) Only prescribe 2.5mg tablets to avoid dosing errors.	

Is titration required Yes Titrate dosage up by 2.5mg-5mg every 2-6 weeks according to response. Maintenance dosage up to a maximum licensed dose of 25mg / week. Rarely the maximum dose can be 30mg/week. Adjunctive treatment regime Folic acid 5mg ONCE weekly also given but may be given more frequently if necessary (usually 3 days after methotrexate). Folic acid reduces the toxic effects of methotrexate. Folic acid can be given any day as long as it is not on the same day as methotrexate. If nausea or GI effects persist despite folic acid then folinic acid 15mg ONCE weekly can be used as an alternative. Conditions requiring dose reduction Lower doses should be considered for frail elderly patients and those with poor renal function. If maximum oral dose is not effective or causes intolerance consider subcutaneous route of administration before discontinuation of the drug with referral to the rheumatology team. Usual response time 6 weeks to 3 months Duration of treatment: ongoing Treatment to be terminated by healthcare professional in consultation with Rheumatology Team. NB. All dose adjustments will be the responsibility of the initiating specialist care unless directions have been specified in the medical letter to the GP. 6.Drug Interactions The following drugs must not be prescribed without consultation with the specialist: For a comprehensive list consult the BNF or Co-trimoxazole or trimethoprim must be avoided in patients taking methotrexate (increased Summary of Product antifolate effect and increases risk of bone aplasia). Live vaccines (e.g. oral polio, oral Characteristics typhoid, MMR, BCG, yellow fever) should be avoided in patients taking methotrexate. Avoid concomitant use of cytotoxics with clozapine as increased risk of agranulocytosis Avoid concomitant use with retinoids as increased risk of hepatotoxicty and increased plasma levels. The following drugs may be prescribed with caution: Caution with phenytoin (antifolate effect of methotrexate increased) and probenecid (excretion of methotrexate reduced) NSAIDs reduce tubular excretion of methotrexate and thereby enhance toxicity. However, NSAIDs are not contraindicated.

Excess alcohol should be avoided (or limit to max. 6 units per week)

7. Adverse drug reactions

For a comprehensive list (including rare and very rare adverse effects), or if significance of possible adverse event uncertain, consult Summary of Product Characteristics or BNF

Specialist to detail below the action to be taken upon occurrence of a particular adverse event as appropriate.

Adverse event System – symptom/sign	Action to be taken Include whether drug should be stopped prior to contacting secondary care specialist	By whom
WBC<3.5x10 ⁹ /L Neutrophils <2.0x10 ⁹ /L Platelets <150x10 ⁹ /L	Withhold until discussion with Rheumatology team	GP
MCV>105 fl	Check B12, folate and TSH. If abnormal treat any underlying abnormality. If normal, discuss with Rheumatology Team.	GP
AST/ALT rise > 2x upper limit of normal	Withhold until discussion with Rheumatology team as risk of liver cirrhosis	GP
Declining renal function i.e. creatinine increasing > 1.5 fold above baseline	Withhold until discussion with Rheumatology team as risk of renal failure	GP
New or increasing dyspnoea and/or dry cough	Withhold and discuss urgently with rheumatology team as risk of interstitial pneumonitis	GP
Severe sore throat, abnormal bruising	Withhold and carry out urgent FBC as risk of bone marrow suppression	GP
Suspected infection requiring antibiotics	Withhold temporarily until infection cleared	GP

The patient should be advised to report any of the following signs or symptoms to their GP without delay:

Severe skin rash that causes blistering, Persistent cough, pain or difficulty breathing or become breathless Skin rash and fever with swollen glands Sore throat, fever, chills or achiness Severe allergic reaction (anaphylactic reaction)

Other important co morbidities (e.g. chickenpox exposure). Include advice on management and prevention and who will be responsible for this in each case:

Pneumovax and annual 'flu vaccine should be given. Passive immunisation should be carried out using Varicella zoster immunoglobulin (VZIG) in non-immune patients if exposed to chickenpox or shingles.

	Any adverse reaction to a black triangle drug or serious reaction to an established drug should be reported to the MHRA via the "Yellow Card" scheme. Myelosuppression, liver cirrhosis, pneumonitis					
8.Baseline investigations	List of investigations / monitoring undertaken by secondary care Chest X-ray FBC U&E LFTs Pulmonary function tests (depending on clinical indication)					
9. Ongoing monitoring requirements to be undertaken by GP	Is monitoring Yes or No (if yes co required?		Yes or No (if yes compl	plete following section) Yes		
	Monitoring		Frequency	Results	Action	By whom
	FBC, U&E, LFT, (ESR desirable but not essential)	weeks dose in Mainte weeks Testing 8 week results		See Section drug reaction	s above	GP
10. Pharmaceutical aspects			uirements, washout periods C blets to avoid dosing errors			
11. Secondary care contact information	Only supply 2.5mg tablets to avoid dosing errors as per NPSA alert and CSM warning. If stopping medication or needing advice please contact: To contact The Kellgren Centre Rheumatology Manchester Royal Infirmary: Enquiries regarding blood monitoring and results please contact the specialist nurses below:					
				the		
	Specialist Nurse Jane Hawthorne 0161 276 4688 Specialist Nurse Melissa Aris 0161 701 1454 Specialist Nurse Carole Hill 0161 701 1454 Fax number for GP blood results 0161 276 8690 Consultant contact details below:					
			0161 701 1454			
			54			
	Professor	lan Bru	ce	0161 276 46	26	
	Professor A	Ann Ba	rton	0161 276 46	26	
	Dr Kimme	•		0161 276 46		
	Dr Pauline			0161 276 43		
	Dr Rachel	Gorodk	in	0161 276 46	528	
	To contact	Rheum	natology Department Tr	afford Gene	ral Hospital:	

	Trafford Rheumatology helpline numbe	r 0161 746 2162			
	Consultant contact details below:				
	Dr Frank McKenna	0161 746 2395			
	Dr Preeti Shah	0161 746 2395			
12. Criteria for shared care	Prescribing responsibility will only be transferred when Treatment is for a specified indication and duration. Treatment has been initiated and established by the secondary care specialist. The patient's initial reaction to and progress on the drug is satisfactory. The GP has no objection in each individual case that shared care is appropriate. The patient's general physical, mental and social circumstances are such that he/she would benefit from shared care arrangements				
13. Responsibilities of initiating specialist	Initiate treatment and prescribe for the 1 st 3 months of treatment.				
annualing opposition	Undertake baseline monitoring.				
	Advise GP of any dose adjustments.				
	Monitor patient's initial reaction to and progress	s on the drug.			
	Ensure that the patient has an adequate supply arranged.	y of medication until GP supply can be			
	Continue to monitor and supervise the patient according to this protocol, while the patient remains on this drug, and agree to review the patient promptly if contacted by the GP.				
	Provide GP with diagnosis, relevant clinical information and baseline results if problematic, treatment to date and treatment plan, duration of treatment before consultant review.				
	Provide GP with details of outpatient consultations, ideally within 14 days of seeing the patient <i>or</i> inform GP if the patient repeatedly does not attend appointments.				
	Provide GP with advice on when to stop this drug.				
	Provide patient with relevant drug information to enable informed consent to therapy.				
	Provide patient with relevant drug information t effects and appropriate action	o enable understanding of potential side			
	Provide patient with relevant drug information t monitoring.	o enable understanding of the role of			
	Provide patient with monitoring booklet.				
	Provide patient with rheumatology nurse helpli	ne contact number.			
14. Responsibilities of the GP	Continue treatment as directed by the specialis	st.			
	Ensure no drug interactions with concomitant medicines (see section 6.) To monitor and prescribe in collaboration with the specialist according to this protocol				
	To ensure that the monitoring and dosage reco	ord is kept up to date in the shared care			

	To ensure blood monitoring is carried out once dose stable and responsibility transferred from secondary care. To inform Rheumatology Team if patient repeatedly does not attend routine blood monitoring. To undertake vaccination as directed by the initiating consultant, the BNF or Green Book.
	Symptoms or results are appropriately actioned, recorded and communicated to secondary care when necessary.
15. Responsibilities of the patient	To take medication as directed by the prescriber, or to contact the GP if not taking medication
	To attend hospital and GP clinic appointments, with monitoring booklet.
	Failure to attend will result in medication being stopped (on specialist advice).
	To report adverse effects to their rheumatologist or GP.
16. Supporting	The SCG must be accompanied by a patient information leaflet.
documentation	Patient Information Leaflet EMC medicines Methotrexate
	Arthritis Research UK Patient Information Leaflet Methotrexate
17. Patient monitoring	The patient must receive a monitoring booklet from the specialist upon initiation of
booklet	treatment. The patient must bring this booklet to all specialist and GP appointments where
	it will be updated by the health professional conducting the appointment. The patient must also produce the booklet to any health professional involved in other aspects of their care
	e.g. pharmacists and dentists.