

## SHARED CARE FRAMEWORK APC BOARD DATE: 27 SEP 2017

## METHOTREXATE

1. Background	Methotrexate is a folic acid antagonist and is classified as an antimetabolite cytotoxic agent.
	Methotrexate is used in the treatment of rheumatoid arthritis, psoriasis and Crohn's disease.
	Indications, dose adjustments and monitoring requirements for disease modifying drugs (DMDs) (licensed and unlicensed indications) included in this Framework are in line with national guidance published by the British Society for Rheumatology 2017.
2. Licensed Indications	<ul> <li>Rheumatoid arthritis</li> <li>Psoriasis</li> </ul>
3. Locally agreed off-label use	<ul> <li>Inflammatory bowel disease</li> <li>Steroid sparing agent</li> <li>Other dermatology conditions</li> <li>Myasthenia gravis, inflammatory myopathies and neuropathies, vasculitis and other immune-mediated central and peripheral nervous system diseases</li> <li>Interstitial lung disease with sarcoidosis</li> <li>JIA</li> <li>Atypical neuroinflammatory disease</li> </ul>
4. Initiation and ongoing dose regime	Transfer of monitoring and prescribing to Primary care is normally after 3 months
	The duration of treatment will be determined by the specialist based on clinical response and tolerability.
	Dose is variable, depending on the clinical indication and will be decided by the specialist initiating treatment. Time to response is variable. In psoriasis significant effect may not be seen before a month or more. In other indications a response may not be expected before 2 -3 months and in some cases may not occur until six months of treatment.
	Lower doses may be considered in renal or hepatic impairment or in the elderly. (CKD3: reduce dose by 50%). Contraindicated in CKD 4+5
	Usual starting dose 10-15mg and increased by 2.5-5mg per week as directed by specialist. Variable dose: usual range 2.5mg-30mg ONCE a WEEK on a fixed day
	Adapted with permission from Pan Mersey APC version: 1.2

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(or earlier if there is significant new evidence relating to this recommendation)

Baseline chest X-ray according to indication. Spirometry in smokers, patients with known respiratory disease or older than 65 years.6. Ongoing monitoring requirements to be undertaken by primary care.Monitoring FBC, Creatinine/ eGFR, ALT and/or AST, AlbuminEvery 12 weeks or more frequently in patients at higher risk of toxicity as advised by the specialist team. The exact frequency of the monitoring to be communicated by the specialist in all cases.N.B. For Rheumatology patients only - under the care of St Helens andOption 1: GP to prescribe DMARD while monitoring undertaken via computerised Rheumatology Monitoring System (RMS). For patients with GPs who have access to Whiston pathology ICE	5. Baseline investigations, initial monitoring and dose titration to be undertaken by specialist	<ul> <li>the initiating specialist unless of and agreed with the primary call.</li> <li>Dose increases should be monitor and/or AST and albumin every 2 minorease, then revert back to prevert back toperations to prevert back to prevert back to prevert bac</li></ul>	red by FBC creatinine/ eGFR, ALT weeks for 6 weeks after a dose ious schedule. <b>e the responsibility of the</b> creatinine/ eGFR, ALT and /or AST, oneumococcus and influenza are ax) is recommended as per the JCVI wever it is contraindicated in doses ek e first clinic letter notifying the GP of Ds that the GP will need to give the ient is older than 69 years and the his has not already been given. The d to add the patient to the influenza Sessed for comorbidities that may including evaluation of respiratory occult viral infection LT and /or AST and albumin every 2 e for 6 weeks; athly FBC, creatinine/ eGFR, ALT and
requirements to be undertaken by primary care.FBC, Creatinine/ eGFR, ALT and/or AST, AlbuminEvery 12 weeks or more frequently in patients at higher risk of toxicity as advised by the specialist team. The exact frequency of the monitoring to be communicated by the specialist in all cases.N.B. For Rheumatology patients only - under the care of St Helens andOption 1: GP to prescribe DMARD while monitoring undertaken via computerised Rheumatology Monitoring System (RMS). For patients with GPs who have access to Whiston pathology ICE			
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N.B. For Rheumatology patients only - under the care of St Helens andOption 1: GP to prescribe DMARD while monitoring undertaken via computerised Rheumatology Monitoring System (RMS). For patients with GPs who have access to Whiston pathology ICE	requirements to be undertaken by primary	FBC, Creatinine/ eGFR, ALT and/or AST, Albumin CRP and ESR (rheumatology	Every 12 weeks or more frequently in patients at higher risk of toxicity as advised by the specialist team. The exact frequency of the monitoring to be communicated by
patients only - under the care of St Helens andcomputerised Rheumatology Monitoring System (RMS).For patients with GPs who have access to Whiston pathology ICE	N B For Rheumatology	<b>Option 1</b> : GP to prescribe DMAR	
For patients with GPs who do not have access to Whiston ICE, patients will be provided with blue record card of results which they will be advised to be made available to GP when writing prescription. N.B. Option 1 will be implemented by the Rheumatology Team if the patient's GP has not responded to the request for shared care after 21 days Option 2: GP to prescribe DMARD and monitoring to be undertaken via GP surgery.	patients only - under the care of St Helens and Knowsley Hospitals: GP to choose whether they are monitored under	<ul> <li>computerised Rheumatology Monitoring System (RMS).</li> <li>For patients with GPs who have access to Whiston pathology ICE system – results will be available via ICE</li> <li>For patients with GPs who do not have access to Whiston ICE, patient will be provided with blue record card of results which they will be advised to be made available to GP when writing prescription.</li> <li><i>N.B. Option 1 will be implemented by the Rheumatology Team if the patient's GP has not responded to the request for shared care after 21 days</i></li> <li><b>Option 2:</b> GP to prescribe DMARD and monitoring to be undertaken via GP surgery.</li> </ul>	
7. Pharmaceutical aspects Route of administration Oral or subcutaneous injection	7. Pharmaceutical aspects	Route of administration	Oral or subcutaneous injection

	Administration details Other important information	Oral – only the 2.5mg strength tablet is to be prescribed, irrespective of dose, to avoid overdose with the 10mg tablet. Solution for injection various strengths - pre-filled syringe The day of the week should be specified and consistent. Provision of cytotoxic waste disposal needs to be arranged according to locally commissioned service. Patients should also receive Folic acid 5mg tablets daily, one to six times a week during treatment with methotrexate (but not on the same day as methotrexate) as advised by
		specialist.
<ul> <li>8. Contraindications</li> <li>Please note this does not replace the Summary of Product Characteristics (SPC) and should be read in conjunction with it.</li> <li>9. Significant drug interactions</li> </ul>	<ul> <li>syndrome</li> <li>Methotrexate should not be antifolate properties eg trim</li> <li>Pregnancy and breastfeed</li> <li>Hypersensitivity to methotre</li> <li>SPC cautions administration BSR recommend that oral E</li> </ul>	function (CKD 4 + 5) a ections and immunodeficiency used concomitantly with drugs with ethoprim <b>ding</b> exate or any of its excipients. In of live vaccines; however JCVI and DMD therapy at standard doses is ost patients, clinician discretion is e BNF or Summary of Product
10. Adverse Effects and	co-trimoxazole and nitrous oxide sh	
managements	Result Abnormal bruising or severe sore	Action Stop drug until FBC results
	throat	available, contact Specialist Nurse (SN)
	New or increasing dyspnoea or dry cough	
	Fall in WCC <3.5 x 10 <sup>9</sup> /l	Stop drug. Contact SN for advice and management.
	Fall in neutrophils <1.6 x 10 <sup>9</sup> /l	
	Fall in platelets <140 x 10 <sup>9</sup> /l Increased MCV >105f/l	Check folate, B12 & TSH, treat if abnormal, contact SN for advice
		and management if normal.

	Unexplained reduction in albumin <30g/l (added from BSR) Abnormal LFTs – AST or ALT > 100U/l Rash Mouth ulcers	Stop drug. Contact SN for advice and management.
	Taste loss	Reassure, continue drug.
	Nausea, vomiting, diarrhoea	Discuss with SN. N.B. nausea relating to methotrexate should be managed initially by prescribing anti-emetics.
	Increase in serum creatinine >30% over period of 12 months or less OR decline in eGFR > 25%	Contact SN if new or unexplained renal impairment
11. Advice to patients and carers	The specialist will counsel the patient with regard to the benefits and risks of treatment and will provide the patient with any relevant information and advice, including patient information leaflets on individual drugs.	
12. Pregnancy and breast feeding	<ul> <li>Contraindicated in pregnancy and breast feeding. Women are advised to take contraceptive precautions while on methotrexate and for at least 3 months after stopping methotrexate. Patients planning on becoming pregnant should be seen by a specialist.</li> <li>Present in breast milk in low concentration, breast feeding should be stopped prior to treatment.</li> <li>Based on limited evidence, low dose methotrexate may be compatible with paternal exposure</li> <li>(BSR &amp;BHPR guideline on prescribing in pregnancy and breastfeeding)</li> </ul>	
13. Specialist contact information	See appendix 2	
14. Additional information	Where patient care is transferred fr GP practice to another, a new share completed.	
15. References	BSR monitoring guidelines	
16. To be read in conjunction with the following documents.	<ol> <li>Policy for Shared care</li> <li>Shared care agreement form</li> </ol>	
	When two or more DMDs are initiated form should be completed for all releve	

#### Appendix 1

#### **Policy for Shared Care**

Shared care is only appropriate if it provides an optimum solution for the patient and it meets the criteria outlined in the Shared Care section of the Pan Mersey **Definitions and Criteria for Categorisation of Medicines in the Pan Mersey Formulary** document.

Before prescribing responsibilities are transferred to primary care:

- Prescribing responsibility will only be transferred when the consultant and the patient's GP agree that the patient's condition is stable.
- All information required by the shared care framework for the individual medicine has been provided to the patient's GP.
- Patients will only be referred to the GP once the GP has agreed to the Shared Care Agreement and returned signed copies.

Inherent in any shared care agreement is the understanding that participation is at the discretion of the GP, subject to the availability of sufficient information to support clinical confidence.

### **Specialist Responsibilities in Shared Care**

- To initiate the medicine, prescribe, monitor for toxicity and efficacy as described by the shared care framework until the patient is stabilised.
- To ensure the patient or their carer:
  - $\circ~$  Is counselled with regard to the risks and benefits of the medicine.
  - Provide any necessary written information to the patient with regard to the individual medicine including patient information leaflets on individual drugs.
  - Obtain and document informed consent from the patient when any medicines is prescribed for an off-label indication for any condition
- To be familiar with the shared care framework.
- To provide all information to the patient's GP as required by the shared care framework when prescribing responsibility is initially transferred and at any subsequent times as necessary for safe and effective treatment of the patient.
- To assess the patient regularly as necessary for the duration of therapy.
- To review the patient promptly if required by the GP concerned.
- To meet any additional requirements as required by the individual medicine shared care framework.
- To communicate failure of a patient to attend a routine hospital review and advise the GP of appropriate action to be taken.
- Addition of a second DMD: Following the addition of a new drug to an existing regime covered by a Shared Care Agreement, the Specialist must initiate, prescribe and monitor the new drug in accordance with the relevant shared care agreement including subsequent review and inform the GP of this. A new Shared Care Agreement must then be initiated for the new drug.
- For <u>Rheumatology patients only under the care of St Helens and Knowsley Hospitals</u>: where GP chooses Option 1 – Blood test monitoring will remain the responsibility of Rheumatology department via Rheumatology Monitoring System. Rheumatology department takes responsibility for actioning abnormal blood test results. Blood test results will be available to GP via Whiston Pathology ICE (or for GP practices that do not have access to this, via patient hand held blue results card)

## Primary Care Responsibilities in Shared Care

• To reply to a written request for Shared Care within 21 days ensuring both copies of the Shared Care Agreement are signed if appropriate.

If agreeing to shared care, the GP is asked to:

- To provide prescribe or manage and monitor the medicine as advised by the Specialist and in line with the individual Shared Care Framework.
- For <u>Rheumatology patients only under the care of St Helens and Knowsley</u> <u>Hospitals</u>: where GP chooses Option 1 – GP to prescribe medication and ensure patient has been attending for blood tests via rheumatology monitoring system and that blood test results are available (via Whiston Pathology ICE system or patient held blue result card blood test monitoring).
- To review the patient as required by the Shared Care Framework
- To make appropriate and contemporaneous records of prescribing and/or monitoring and to note the existence of the Shared Care Agreement on the patient's clinical record. A READ code of "6652 Shared Care- Specialist/GP" can be used.
- To be familiar with the individual Shared Care Framework.
- To report any adverse effects of treatment to the specialist team.
- To inform the Specialist of any relevant change in the patient's circumstances.
- To seek Specialist advice as appropriate.
- To meet any additional requirements as required by the individual Shared Care Framework.
- To respond to Specialist communication relating to any change or addition to the patients treatment covered by the Shared Care Agreement.

## Appendix 2:

## Disease modifying drugs (DMDs)

Request by Specialist Clinician for the patient's GP to enter into a shared care agreement

## <u>Part 1</u>

# To be signed by Consultant / Associate Specialist / Specialist registrar or Specialist Nurse (who must be a prescriber)

Date	
Name of patient	
Address	
Patient NHS No	If using addressograph label please attach one to each copy
Patient hospital unit No	
Diagnosed condition	
Dear Dr	
I request that you prescribe	
(1)	
(2)	
(3)	
(4)	

for the above patient in accordance with the enclosed shared care framework.

Last Prescription Issued: / / Next Supply Due: /	/
Date of last blood test: / / Date of next blood test:	//
Frequency of blood test:	
I confirm that the patient has been stabilised and reviewed on t	the above regime in
accordance with the Shared Care Framework and Policy.	

I confirm that if this is a Shared Care Agreement for a drug indication which is unlicensed or off label, informed consent has been received.

## **Details of Specialist Clinicians**

Name	_Date

Consultant / Associate Specialist / Specialist Registrar / Specialist Nurse \*circle or underline as appropriate

Signature

In <u>all</u> cases, please also provide the name and contact details of the Consultant.

When the request for shared care is made by a Specialist Nurse, it is the supervising consultant who takes medico-legal responsibility for the agreement.

Consultant:	
Contact details:	
Telephone number:	Ext:
Address for return of documentation	
Part 2 To be completed by Priv	ary Care Clinician
To be completed by Print I agree to prescribe the enclosed shared care fram	for the above patient in accordance with
For <u>Rheumatology patients</u> of I would like monitoring to be un	nly under the care of St Helens and Knowsley Hospitals dertaken
<b>Option 1</b> - via Rheumatology I N.B. Option 1 will be implemented shared care after 21 days.	onitoring System Yes / No <pre>v the Rheumatology Team if the patient's GP has not responded to the request for</pre>
<b>Option 2</b> - at GP surgery	Yes / No
GP signature	Date
GP name	Please print

<u>GP:</u> Please sign and return a copy within 21 calendar days to the address above

OR

**GP**- If you do not agree to prescribe, please delete the section above and provide any supporting information as appropriate below:

St Helens Rheumatology Monitoring System (RMS)

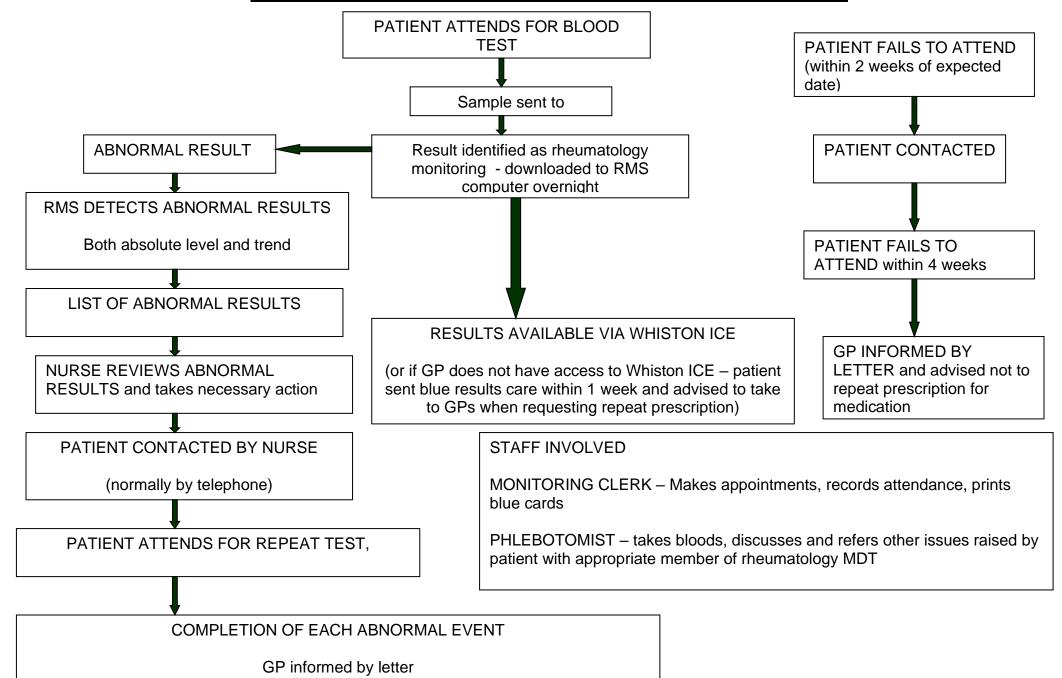
St Helens Rheumatology Department has developed an in-house computerised blood monitoring system for patients on DMARD therapies which has now been running for over 15 years. It was upgraded to a web-based programme in 2009.

Overleaf is a flow chart of this system.

It has a number of advantages over tradition shared care monitoring (where blood tests are taken, checked and transcribed in to patient held monitoring booklet by hand). These include:

- 1) It minimises the number of health professionals involved in the process, reducing the risk of miscommunication
- 2) It ensures prompt action on any abnormality being taken by an experienced rheumatology nurse specialist
- 3) It is an efficient use of human resources using the computer to do the detection of the abnormality
- 4) It reduces risk of human error an abnormal result being overlooked, or inaccurate transcription of blood test result to patient held monitoring booklet.
- 5) It has a robust mechanism for detecting DNAs and enabling the appropriate action to be taken.

However its major disadvantage is that the results of the tests are sent to the patient on a blue card but the prescribing GP is then reliant on either the patient remembering to bring the blue card record of all their blood tests to the surgery when requesting a repeat prescription or the GP checking the results on the Whiston pathology system assuming they have access to this or the GP trusting in our monitoring system (and I appreciate that they may not feel able to do so).



#### **RHEUMATOLOGY MONITORING SYSTEM (RMS) PATHWAY (2018)**