

SHARED CARE FRAMEWORK APC BOARD DATE: 27 SEP 2017

MYCOPHENOLATE MOFETIL

1.	Background	Mycophenolate mofetil (MMF) is a licensed product for prophylaxis of acute rejection in renal, cardiac and hepatic transplantation. It has been used for many years and these remain the licensed indications for the drug The purpose of this document is to provide guidance on the use of mycophenolate in autoimmune conditions for which the drug is used off-label. 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	Transplant: renal, cardiac and hepatic. Not applicable to this shared care agreement	
3.	Locally agreed off-label use	 Treatment of myasthenia gravis in patients intolerant or unresponsive to azathioprine Systemic lupus erythematosus (SLE) and other rheumatology conditions Neuromyelitis optica myasthenia gravis, inflammatory myopathies and neuropathies, vasculitis and other immune-mediated central and peripheral nervous system diseases Dermatology conditions including psoriasis, atopic dermatitis, lupus erythematosus, sarcoidosis and cutaneous vasculitis Inflammatory bowel disease Interstitial lung disease Myositis Autoimmune and inflammatory kidney conditions Sarcoidosis 	
4.	Initiation and ongoing dose regime	Transfer of monitoring and prescribing to Primary care is normally after 3 months	
		Duration of treatment will be determined by the specialist based on clinical response and tolerability	

Adapted with permission from Pan Mersey APC version: 1.2

Review date: September 2020

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

5.	Baseline investigations, initial monitoring and dose titration to be undertaken by specialist	Please note for rheuma initiated on more than of the initiating special discussed and agreed and agreed bose increases should ALT and/or AST and all dose increase, then reverse the increase and all dose increase, then reverse the increase and all dose increase and the patient all ready been grand the patient and the	A+5 is 1g bd. Inds on the clinical indication and will be team initiating treatment. Intology conditions a patient may be one DMD In adjustments will be the responsibility alist unless directions have been at with the primary care clinician In the monitored by FBC creatinine/ eGFR, burnin every 2 weeks for 6 weeks after the vert back to previous schedule. In the will be the responsibility of the BP, FBC, creatinine/ eGFR, ALT and/or ain. In the gainst pneumococcus and influenza are the (Zostavax) is recommended as per the
•		at least every 12 weeks	5.
6.	Ongoing monitoring requirements to be undertaken by primary care.	Monitoring FBC, creatinine/ eGFR, ALT and/or AST and albumin CRP and ESR (rheumatology patients only)	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 the specialist in all cases.

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Seek advice from the initiating Specialist if there are any		Seek advice from the initiating Specialist if there are any		
		concerns about interactions.		
10. Adverse Effects and Result Action	10. Adverse Effects and			
managements Abnormal bruising or Stop drug until FBC results available,				
severe sore throat contact SN				
Fall in WCC <3.5 x Stop drug. Contact Specialist Nurse				
10 ⁹ /I (SN)				
Fall in neutrophils				
<1.6 x 10 ⁹ /l				
Fall in platelets <140		Fall in platelets <140		
x 10 ⁹ /l	,			

	Increased MCV >105fl	Check folate, B12 & TSH. Treat if abnormal contact SN for advice and management if normal.	
	Unexplained reduction in albumin <30g/L	Stop drug contact SN	
	Abnormal LFTs – AST or ALT> 100u/l	Stop drug. Contact SN	
	Nausea, vomiting, diarrhoea	Discuss with SN	
	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	MHRA Safety Alert: Mycophenolate mofetil, mycophenolic acid: new pregnancy-prevention advice for women and men		
	Avoid in pregnancy and breast feeding. Male patients or their female partner should use reliable contraception during treatment and at least 90 days after stopping mycophenolate.		
13. Specialist contact information	See appendix 2		
14. Additional information	MHRA Safety Alert: My	cophenolate mofetil: pure red cell aplasia	
	MHRA Safety Alert: Mycophenolate mofetil (CellCept) and mycophenolic acid: risk of hypogammaglobulinaemia and risk of bronchiectasis		
	Where patient care is transferred from one specialist service or GP practice to another, a new shared care agreement must be completed.		
15. References	BSR monitoring guideli	nes	
16. To be read in conjunction with the following documents.	Policy for share Shared care ag		
		Ds are initiated, one shared care I be completed for all relevant drugs.	

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:
 - o 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 Rheumatology patients only - under the care of St Helens and Knowsley Hospitals:
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 Rheumatology patients only under the care of St Helens and Knowsley

 Hospitals: 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.

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

Disease modifying drugs (DMDs)

Part 1

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 lat each copy	pel please attach one to
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 enclose	d shared care frame	work.
Last Prescription Issued: / / Next Sup	ply Due: / /	·
Date of last blood test: / Date of next	blood test: /	1
Frequency of blood test:		
I confirm that the patient has been stabilised and	reviewed on the a	bove regime in
accordance with the Shared Care Framework and	l Policy.	
I confirm that if this is a Shared Care Agreement	for a drug indication	on which is unlicensed c
off label, informed consent has been received.		N/A

Details of Specialist Clinicians

Name	Date	
Consultant / Associate Spec	ialist / Specialist Registrar / Specialist Nurse *circle or <u>underline</u> as appropri	ate
Signature		
In <u>all</u> cases, please also prov	ride the name and contact details of the Consultant.	
When the request for shared takes medico-legal responsib	care is made by a Specialist Nurse, it is the supervising consultant voility for the agreement.	vhc
Consultant:		
Contact details:		
Telephone number:	Ext:	
Address for return of documentation		
<u>Part 2</u> To be completed by Pr	imary Care Clinician	
I agree to prescribethe enclosed shared care fra	for the above patient in accordance with	h
For <u>Rheumatology patients</u> I would like monitoring to be u	only under the care of St Helens and Knowsley Hospitals undertaken	
	Monitoring System Yes / No by the Rheumatology Team if the patient's GP has not responded to the request	t foi
Option 2 - at GP surgery	Yes / No	
GP signature	Date	
GP name	Please print	
GP: 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)

