Shared Care Guideline: *Azathioprine*



County Durham and Darlington Area Prescribing Committee

Overview	Azathioprine is an immunosuppressant drug	
Indication	Licensed Rheumatoid arthritis Pemphigus vulgaris Ulcerative colitis Crohn's disease Severe Refractory eczema Autoimmune hepatitis (NOTE that the patient MUST BE under the care of a specialist hepatologist, either in CDDFT or tertiary centre (Freeman Road Hospital (FRH) / James Cook University Hospital (JCUH) Unlicensed Psoriatic arthritis Systemic vasculitis Sarcoidosis Idiopathic pulmonary fibrosis	
Dose	 Initial dose of one of the following regimes 1 to 2mg/kg/day increasing after a minimum of ONE week, as necessary to 2 to 3mg/kg/day. 3mg/kg/day 	
Specialist's Responsibilities	 Initial investigations: Full Blood Count (FBC), Liver Function Tests (LFTs), Erythrocyte Sedimentation Rate (ESR) /C-Reactive Protein(CRP) Check Thiopurine Methyltransferase (TPMT) status Check Varicella Zoster status if there is an uncertain history and recent exposure to the virus. It is the responsibility of the specialist to arrange vaccination should the patient be found to not have immunity In addition the following may also be requested; Weight, Height and Blood Pressure (BP) and calculated Creatinine clearance (CrCl) / Glomerular Filtration Rate (GFR), 	
	Initial prescribing until stable: Prescribing responsibility and monitoring to stay with the specialist until patient has been on a stable dose for at least 6 weeks at which point shared care is requested. Specialist to issue a prescription for enough medication to last until shared care is accepted	
	 by GP. This will usually be a minimum of 28 days. Communication and Documentation to GP: Obtaining agreement of GP to participate in shared-care arrangement for azathioprine therapy. This will be by sending a completed copy of the shared care request letter (appendix 1) to the GP The specialist must ensure that the GP is aware when the next blood monitoring is required. The GP Must be made aware of any additional monitoring requirements specific to the patient e.g. Weight, Height BP CrCl/GFR Prompt communication with the GP regarding the patient's progress, any 	

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	 reassessment and changes in treatment. Provide additional information and advice to the GP on actions he/she may need to 			
	take e.g. on dosage adjustment, other changes in therapy and management of adverse effects, as required.			
GP's	Maintenance prescription:			
Responsibilities				
	Clinical monitoring:			
	Continue to clinically monitor patient in line with this shared care agreement and referral letter from specialist (as described in clinical monitoring section below)			
	Criteria requiring specialist contact:			
	Failure to attend for review or undertake blood tests			
	Intolerance of drugs			
	Communications failure			
	Documentation to specialist:			
	 Accepting or rejecting request for shared care within 28 days, if rejecting please state concerns and reasons Blood results to specialist via use of patient-held record. 			
Clinical monitoring:	FBC, LFTs and ESR/CRP Optional calculated CrCI /GFR			
	Frequency: Gastroenterology patients Weekly for FOUR weeks, then in clinic review at week SIX to EIGHT weeks. If stable, patients can be transferred to THREE monthly. If unstable, repeat after a further MONTH, then THREE monthly monitoring thereafter			
	Rheumatology and dermatology patients Fortnightly until on stable dose for SIX weeks then monthly for THREE months After THREE months reduce frequency of monitoring to THREE monthly			
	After dose increase (all specialities) Repeat TWO weeks after dose increase, then if stable revert back to THREE monthly thereafter. If unstable repeat after a further MONTH before reverting back to THREE monthly monitoring.			
	For patients' heterozygote for low TPMT activity, monitoring should continue at <u>monthly</u> intervals as a minimum.			
	NOTE – this guideline sets out the standard monitoring requirements, however it is essential that each patient is considered on an individual basis and monitoring frequency should reflect this. The GP should be made aware of any deviations.			
Safety monitoring:	Please refer to Summary of Product Characteristics (SPC) or BNF /eBNF for full details of adverse effects, contraindications, cautions and drug interactions.			
	 Monitoring for response and adverse drug reactions (ADRs) 			
	Ask about the following at each visit			
	 sore throat bruising or bleeding 			
	 bruising or bleeding rash 			
	 oral ulceration 			

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Adverse Events			
	Adverse event	Action to be taken	
	WBC less than 3.5 x 10 ⁹ /L	Withhold and discuss with specialist team	
	Neutrophils less than 2.0 x 10 ⁹ /L	Withhold and discuss with specialist team	
	Platelets less than 150 x 10 ⁹ /L	Withhold and discuss with specialist team	
More than a TWO fold rise in Alanine transaminase (ALT) / Aspartate aminotransferase (AST) from upper limit of normal		Withhold and discuss with specialist team	
	Rash, oral ulceration	Withhold and discuss with specialist team	
	Mean Cell Volume (MCV) more than 105	Check B12, folate, Thyroid Function Tests(TFTs) and discuss with specialist team	
	Abnormal bruising or sore throat	Withhold, check FBC and discuss with specialist team	
	 specialist team Bone marrow suppression characterised by sore throat, infection, fever, malaise, cough, unexplained bruising or bleeding, fatigue, hypotension/ hypertension, myalgia, dizziness and rash GI side effects including Nausea, vomiting and diarrhoea Rigours Rash Alopecia Jaundice Pneumonitis Hypertension Pancreatitis 		
Contra- indications		nould be reported to the specialist and the MHRA thioprine or 6-mercaptopurine. tivity	
Cautions	 Heterozygote for low TPMT activity Renal insufficiency – use doses at lower end of the normal range and monitor carefully for toxicity. Hepatic impairment – monitor carefully for hepatic or haematological toxicity and reduce dose if signs of toxicity occur 		
Drug Interactions	azathioprine toxicity, unless a azathioprine must be reducedAnticoagulant effect of warfari		

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Other Vaccinations			
Information	 Live vaccines can be considered in patients on a dose of up to 3mg per Kg daily after careful consideration of the risks and benefits in conjunction with the patient; 		
	please discuss with the appropriate specialist		
	 Seasonal influenza vaccination is recommended annually. 		
	Pneumococcal vaccination is recommended every FIVE years		
	Fertility, Pregnancy and Breast-feeding		
	 Careful assessment of risk versus benefit should be carried out before use during 		
	pregnancy, in patients likely to become pregnant and breastfeeding		
	 The European Crohn's and Colitis Organisation (ECCO), The British Association of 		
	Dermatologists (BAD) and the British Society for Rheumatology (BSR) support the		
	use of azathioprine in some circumstances the benefit to the mother may outweigh		
	the risk to the unborn child. The decision to continue should be made jointly by the		
	specialist team and the obstetric team and should not exceed 2mg/kg per day. Dose		
	 reduction at 32 weeks gestation may prevent neonatal leucopenia. ECCO, BAD and BSR guidance suggests that women treated with azathioprine can 		
	 ECCO, BAD and BSR guidance suggests that women treated with azathioprine can continue to breast feed. 		
	continue to breast reed.		
	More information on use of azathioprine in pregnancy and breastfeeding can be found on		
	the BSR and BAD websites		
	https://www.guidelines.co.uk/BSR/RA-in-pregnancy-and-breastfeeding/252703.article		
	http://www.bad.org.uk		
	General		
	The patient should be advised to report any signs of bone marrow suppression or hypersensitivity (i.e. infection, favor, chills, caugh, uppyplained bruising or blooding		
	hypersensitivity (i.e. infection, fever, chills, cough, unexplained bruising or bleeding, fatigue, hypotension, myalgia, dizziness)		
	 Patients should be advised to limit exposure to ultraviolet light and sunlight and to wear high factor sun creams and/or protective clothing to limit risk of photosensitivity 		
	and skin cancer.		
	 Patients with no history of exposure to varicella zoster virus should be advised to avoid contact with people who have active chickenpox or shingles and should report 		
	any such contact to their GP or hospital specialist.		
Contact Details			
	contact the Consultant, secretary or call the appropriate helpline below.		
	UHND Rheumatology Helpline: 0191 3332763		
	DMH Rheumatology Helpline: 01325 743881		
	UHND Gastroenterology Helpline: 0191 3332333		
	DMH Gastroenterology Helpline: 01325 743434		
	Note : there is no dedicated Dermatology Helpline		

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Department of County Durham and Darlington Foundation Trust

GP name GP address

Dear Dr

Request for Shared Care of AZATHIOPRINE

Re: Patient's name Address DOB: Hospital Number:

Date:

This patient has been prescribed Azathioprine via the ORAL route for the management of

Rheumatoid arthritis	Pemphigus vulgaris	Ulcerative colitis
Autoimmune Hepatitis	Severe Refractory Eczema	Crohn's Disease
□ Idiopathic pulmonary fibrosis (unlicensed)	□Sarcoidosis (unlicensed)	Systemic Vasculitis

(unlicensed)

□ Psoriatic arthritis (unlicensed)

The patients' current dose isper day

The patient was commenced on this drug onand has been stable on the current dose since

I would now like to ask you to take over the responsibility for prescribing this medication for this patient, as agreed by your CCGs and the Area Prescribing Committee.

The shared care document lists the monitoring requirements for this medication. Can I ask that any problems are reported back into secondary care.

The next blood monitoring is due on and should be continued in line with the shared care guideline.

In addition, the following patient specific monitoring is required for this patient

.....

This is part of the shared care guideline approved by the Area Prescribing Committee, available at <u>http://medicines.necsu.nhs.uk/guidelines/durham-darlington/</u>.

The patient will remain under regular clinical review by his or her usual consultant/ specialist nurse as described in the shared care agreement.

Please send back the second part of this letter, with 28 days, so we know that we have your agreement to this arrangement. If you are not happy to accept this patient or have any concerns, then please contact my secretary as soon as practically possible

Yours sincerely

Consultant name & Contact details

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GP Agreement

Patient's Name: DOB: Hospital No:

I agree to take over the prescribing and monitoring of Azathioprine in line with the approved shared care document as found at http://medicines.necsu.nhs.uk/guidelines/durham-darlington/

Dose to be prescribed

Dated/...../

Signed:

GP's Name:

GP contact details

Please return to Consultant's secretary. You may wish to keep a copy for your records

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