MERCAPTOPURINE Drug Specific Monitoring Document



TARGET	Board-wide	
AUDIENCE		
PATIENT GROUP	All patients aged 12 years and older taking Mercaptopurine	

References

- British National Formulary (2024). BNF / NICE. [online] NICE. Available at: https://bnf.nice.org.uk/.
- Specialist Pharmacy Service (2021). Medicines Monitoring. [online] SPS Specialist Pharmacy Service. Available at:
 https://www.sps.nhs.uk/home/tools/drug-monitoring/.
- Electronic Medicines Compendium (2019). *Home electronic medicines compendium (emc)*. [online] Medicines.org.uk. Available at: https://www.medicines.org.uk/emc

Governance information for drug specific document

Lead Author(s):	Medicines Policy and Guidance Team
Endorsing Body:	Area Drug and Therapeutics Committee
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Responsible Person (if different from lead author)	Kirsty Macfarlane/Mark Russell

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Medication	MERCAPTOPURINE			
Name				
Actions by	Thiopurine methyltransferase (TPMT) activity			
specialist	• FBC			
clinician	• LFTs			
before	• U&Es			
initiation	eGFR			
DIS actions on	For all drugs, specialist clinicians should consider whether vaccination/exclusion of other contraindications (including active infection), is required and arrange as appropriate. Week 2, 4, 8 and 12			
starting	• FBC			
treatment	• LFTs			
and following	• U&Es			
dose titration	• eGFR			
during				
initiation				
period				
Ongoing	Every 3 months			
monitoring in	• FBC			
Primary Care	• LFTs			
once stable	• U&Es			
	• eGFR			
Action if	Monitor trends - be aware of trends in results and respond accordingly.			
monitoring is	Respond to absolute levels - Consider stopping treatment and contacting a specialist			
outside	if any of the following develop:			
reference				
range	Full blood count			
Talige	 Neutrophils less than 2 x 10⁹/L; if less than 1 x 10⁹/L, immediate discussion as may require antibiotics and possibly GCSF if febrile Platelets less than 140 x 10⁹/L WCC less than 3.5 x 10⁹/L MCV greater than 105fL 			
	 Liver function 			
	 AST or ALT greater than 100units/mL 			
	 Albumin less than 30g/L 			
	 Creatinine increase greater than 30% above baseline over 12 			
	months • eGFR less than 59ml/min/1.73m² (repeat in 1 week, if still more than			
	· ·			
Actions to	30% from baseline, withhold and discuss with specialist team)			
Actions to	Actions may vary. Consult specialist team for further guidance if required			
take if				
restarting	Patients should be referred by the specialist clinician to the drug initiation hub if re-			
medication	titration or enhanced monitoring is required			
after				
treatment break				
l				

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CONSULTATION AND DISTRIBUTION RECORD		
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Consultation Process / Stakeholders:	LMC, GP Sub-committee, Jennifer Gibson, Karen Donaldson, Eimear Gordon, Anthony Carson, Richard Shearer, Rebecca Malley, Rosemary Beaton, Drug Initiation Service pharmacists, Acute specialist gastrointestinal and rheumatology consultants and pharmacists.	
Distribution	Acute specialist consultants and pharmacists, Senior primary care pharmacists, all individuals involved with the Drug Initiation Service, LMC and GP sub-committee	

CHANGE RECORD			
Date	Lead Author	Change	Version

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