

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

References

Please also refer to the relevant Summary of Product Characteristics and BNF section for the medicine included in this document.

- 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
- NHS Lothian Shared Care Agreements. Ciclosporin (Neoral) for solid organ transplant in adult patients. Available at https://formulary.nhs.scot/east/help-and-support/for-healthcare-professionals/shared-care-of-medicines/nhs-lothian-shared-care-agreements/ Version 4.0; Review date: December 2026
- BSR and BHPR guideline for the prescription and monitoring of non-biologic disease-modifying anti-rheumatic drugs; 2017. Available at https://academic.oup.com/rheumatology/article/56/6/865/3053478?login=false#go ogle_vignette

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

Medication	Oral CICLOSPORIN	
Name	please note requirement for brand name prescribing	
Actions by	At least twice before starting treatment	
specialist	o Blood pressure	
clinician before	 U&Es including CrCl or eGFR 	
initiation	• LFTs	
	Blood lipids	
	·	
	• Weight	
	• FBC	
	Dermatology also:	
	Urinalysis	
	, and the second	
	Rheumatology also:	
	Blood glucose	
	For all drugs, specialist clinicians should consider whether vaccination/exclusion of other	
	contraindications (including active infection), is required and arrange as appropriate.	
DIS actions on	Non-transplant patients:	
starting	Every 2 weeks for first month, then monthly for next 3 months, then every 3 months.	
treatment and	Serum creatinine (for creatinine clearance) or Calculated glomerular filtration rate	
following dose	Every 2 weeks until on stable dose for 6 weeks, then monthly for 3 months	
titration during	o Albumin	
initiation	o ALT or AST	
period	 Blood pressure 	
	o Blood glucose	
	o FBC	
	After 1 month	
	o Lipids	
	Periodically	
	o Serum magnesium	
	o Serum potassium	
	Weight – only if significant change	
	Transplant patients:	
	Monthly for the first 6 months, thereafter according to NHS Lothian transplant specialist	
	clinic follow-up frequency	
	• U&Es	
	• eGFR	
	• LFTs	
	Ciclosporin trough levels	
	Blood pressure	
	Weight	
Ongoing	Non-transplant patients	
monitoring in	Every 3 months for first year:	
Primary Care	Serum creatinine (for creatinine clearance) or Calculated glomerular filtration rate	
once stable	FBC	
	• LFTs	
	• Glucose	
	• BP	
	After 12 months of stable treatment, bloods can be reduced to annual on an individual	
	patient basis on advice of specialist	
	passess and addice of specialist	

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The above guidance is likely to only apply to Rheumatology patients as in dermatology this drug is usually only for short term use.

Transplant patients

Although blood level monitoring is routinely carried out by the specialist team during clinic visits, in exceptional circumstances the team may request that the GP arranges for routine blood tests to be taken locally for patient convenience. If the GP agrees to this, the specialist will give advice on the management of abnormal results.

Action if monitoring is outside reference range

The specialist will give advice on the management of all abnormal results.

All monitoring and dose adjustments will be performed by the acute specialist teams. No dose adjustment decisions are expected to be made by primary care teams. The detail below is for primary care information only.

- Monitor trends Be aware of trends in results (e.g. gradual decreases in white blood cells or albumin, or increasing liver enzymes). A downward trend of FBC and neutrophil count or an upward trend in liver transaminases could be a sign of toxicity, even if the absolute levels are normal.
- Respond to absolute levels Consider stopping treatment and contacting a specialist if any of the following develop:
 - Full blood count
 - WCC less than 3.5 x 10⁹/L,
 - Neutrophils less than 1.6 x 10⁹/L
 - Unexplained eosinophilia more than 0.5x 10⁹/L
 - Platelets less than 140 x 10⁹/L
 - Unexplained fall in serum albumin less than 30g/L
 - MCV greater than 105f/L (check B12, folate, thyroid-stimulating hormone levels – if abnormal treat, if normal discuss with specialist team)
 - Liver function AST and/or ALT greater than 100units/L
 - Renal function
 - Creatinine increase greater than 30% above baseline over 12 months.
 Dermatology specify that if > 30% at any time; stop ciclosporin.
 - Calculated GFR less than 60ml/min/1.73m² (repeat in 1 week, if still more than 30% from baseline, withhold and discuss with specialist team)

Actions to take if restarting medication after treatment break

All changes to medication will be managed by the specialist team

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CONSULTATION AND DISTRIBUTION RECORD		
Contributing Author / Authors	Kirsty Macfarlane, Mark Russell, Kendal Paterson, Katrina Maroni	
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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		
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