

Cyclosporin

Synonyms

CyA, Ciclosporin

Clinical Indication

Cyclosporin is an immunosuppressant that is typically employed in the prophylaxis and treatment of graft-versus-host disease following tissue/organ transplantation, eg. bone marrow, heart, kidney, liver, pancreas and lung. It is also used to treat some other conditions such as rheumatoid arthritis and psoriasis.

Therapeutic drug monitoring for assessment of toxicity (particularly nephrotoxicity), establish a dose regime and to maintain therapeutic levels.

Part of Profile / See Also

Request Form

Combined Pathology manual Blood form or ICE request

Availability / Frequency of Analysis

 Referred test: Analysed by LCMS at the Royal London Hospital [8285](#).

Turnaround Time

48 hours (can be up to 72 hours for samples taken on a Friday). This turnaround time only applies to samples sent to the Royal London with whom a system is in place to facilitate reporting. If you request that the level be analysed at a different hospital, result turnaround may be much slower.

Patient Preparation

Samples should be collected before next dose (trough)

Sample Requirements

Specimen Type

Whole blood (EDTA)

Volume

1 ml

Container



Pink/purple top (EDTA) tube



Paediatric EDTA (Red top – Sarstedt)



Paediatric EDTA (Pink top – BD Microtainer)

Reference Range & Units

70 – 180 ug/L

This is a guide only, there are marked pharmacokinetic and drug regime differences between patients.

Interferences

Interpretation & Clinical

See reference range and comment above.

Decision Value (if applicable)

References

<https://bnf.nice.org.uk/drugs/ciclosporin/>

Test code

CYCL

CYCL is the primary code. Use Winpath to look up test codes if the cyclosporin level is specifically requested to be sent to a hospital other than Royal London.

Lab Handling

Store the whole blood (EDTA) in the referrals rack at 4°C. Sent daily by courier to Royal London Hospital.



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