

Cyclosporine (CYCLO)

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TEST OVERVIEW

Test Name	Cyclosporine
Test Code	CYCLO
Short Description	Cyclosporine

OVERVIEW

Test Name	Cyclosporine
Test Code	CYCLO
Category	Biochemistry
TAT	Main Lab: 6 Hour(s) Family Site: <6hrs
Specimen(s)	1 x Venous blood - 5 mL Tube - Lavender - EDTA Whole Blood

SPECIMEN(S)

EDTA Whole Blood

Specimen Type	EDTA Whole Blood
Specimen Format	Tube
Specimen Colour	Lavender
Specimen Volume	5 mL
Sampling Order	4
Origin	Venous blood
Collection time after baseline	-
Transport Temperature	-20°C
Accepted Other Specimens	-
TAT	Main Lab: 6 Hour(s)

Test Stability

Family Site: <6hrs

Room Temp: -
2-8°C: 7 Day(s)**CLINICAL INFORMATION****Cyclosporine**

Methodology	-
Specimen Type	EDTA Whole Blood
Delay before pre-treatment	7
Transport Temperature	-20°C
Transport Stability at room temp	- -
Transport Stability at 2-8°C	7 Day
Haemolysis interference	<input type="button" value="No"/>

Clinical Interest

Cyclosporin is widely used to prevent rejection in patients who have undergone organ transplants, particularly kidney, liver, heart or lung transplants. The drug works by suppressing the immune system, thereby reducing the risk of rejection. Cyclosporine has a narrow therapeutic window, meaning that the difference between effective and toxic doses is small.

Cyclosporine can cause significant side effects, particularly when blood levels are high. **Nephrotoxicity** (kidney damage) is one of the most common and serious side effects, as cyclosporine can reduce renal blood flow and glomerular filtration rate. Neurotoxicity, including tremors, convulsions and headaches, is another undesirable effect.

Regular monitoring of cyclosporin blood levels ensures that the concentration of the drug is sufficient to prevent rejection but not so high as to cause toxicity.

Immediately after transplantation, patients have the highest risk of organ rejection, requiring higher doses of cyclosporine. Over time, the dose can be reduced, but careful monitoring with analyses is necessary to determine the appropriate reduction schedule while ensuring continued protection against rejection.

PATIENT INFORMATION

Clinical Information Required	Date of last medication taken Time of last medication taken Frequency
Patient Collection Notes	-

COMMENTS & NOTES

LOINC Code	20-4, 3520-4
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Outwork

No