

Patient Name : Mr MR.DUMMY	Sample Collected : Apr 26, 2024, 01:00 PM
DOB/Age/Gender : 23 Y/Male	Report Date : May 09, 2024, 01:14 PM
Patient ID / UHID : 8052272/RCL7248866	Barcode No : ZC665898
Referred By : Dr. X	Report Status : Final Report
Sample Type : Whole blood EDTA	

Test Description	Value(s)	Unit(s)	Reference Range
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Cyclosporine

CYCLOSPORINE (LC-MS / MS)	3.24	ug/L	
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Interpretation:

ORGAN TRANSPLANT	THERAPEUTIC RANGE in ug/L
Kidney (in combination with Everolimus)	1 month post transplant : 100-200 2-3 months post transplant : 75-150 4-5 months post transplant: 50-100 6-12 months post transplant: 25-50
Liver	290 - 525
	Toxic value : >700

Note :

- Optimal blood levels of Cyclosporine are influenced by nature of the transplant, age and general health of the patient, co-administration of drugs, clinical findings, individual sensitivity to immunosuppressive and nephrotoxic effects of the drug, time post transplant, commercial preparation & hepatic & renal function.
- Many drugs affect Cyclosporine blood concentration: Calcium channel blockers, Antifungal drugs & Erythromycin may prolong metabolism thus increasing the risk of toxicity. Anticonvulsant drugs & Rifampicin may induce metabolism of Cyclosporine thus reducing bioavailability.
- Do not draw specimen from indwelling catheter which has been used to administer Cyclosporine as it is adsorbed by the catheter and elevates blood values significantly.
- Cyclosporine A Whole blood concentrations can be measured by either chromatographic (LC-MS/MS) or immunoassay (CLIA) methodologies. These two techniques are not directly interchangeable and the measured drug level depends on the methodology used. Reference ranges are different for the two methodologies. Generally CLIA has a positive bias as compared with LC-MS/MS due to cross reacting antibodies with the drug metabolites.

Comments :

LC-MS/MS is considered the most sensitive, specific and precise technology for monitoring immunosuppressants. Therapeutic drug monitoring (TDM) is commonly used to help maintain drug levels within the concentration range in which the drug exerts its clinical effect with minimal adverse reactions . Cyclosporine provides maintenance immunosuppression by inhibition of the activation of T lymphocytes via a multifaceted mechanism. It is slowly absorbed and reaches peak concentrations in 4-6 hours. The elimination profile of Cyclosporine is biphasic, early elimination phase with half life ranging from 3-7 hours followed by a slower elimination phase with half life ranging 18-25 hours. Maximum suppression with Cyclosporine occurs during the first 24 hours of antigen stimulation by the allograft. Thus it must be administered in the early phase of the immune response to achieve success of transplantation.

Indications for testing

- Immunosuppressant dose optimization
- Failure to respond to immuosuppressants
- Signs or Symptoms consistent with inadequate or excessive immunosuppression
- Changes to concomitant medications or other variables that affect pharmacokinetics

*** End Of Report ***



Dr. Dummy



Booking Centre :- DEMO PARTNER CHENNAI, DEMO PARTNER CHENNAI
Processing Lab :-

928-909-0609

ccsupport@redcliffelabs.com

www.redcliffelabs.com

All Lab results are subject to clinical interpretation by qualified medical professional and this report is not subject to use for any medico-legal purpose.

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Disclaimer: Method given in report are only indicative and can be changed depending upon type of machine and kit available at time of testing.

Not all tests at all locations are under NABL scope. Availability of tests under NABL scope varies from lab to lab.



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