Lab Dept:	Chemistry
Test Name:	CYCLOSPORINE LEVEL (FOR TRANSPLANT PATIENT)
General Information	
Lab Order Codes:	CYC
Synonyms:	CSA, Cyclosporin A, Sandimmune®; Gengraf; Neoral
CPT Codes:	No charge, if the transplant was at UM/Fairview.
Test Includes:	Cyclosporine level measured in ug/L.
Logistics	
Test Indications:	This test is used to monitor blood concentration of cyclosporine A. This test selectively measures only the parent drug. Dose or dose intervals are adjusted to achieve therapeutic concentration.
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Fairview University Labs (Fairview code: CYC)
Phone Numbers	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	Same day, test set-up daily
Special Instructions:	Usual sampling time is immediately prior to the next dose.
Specimen	
Specimen Type:	Whole blood
Container:	Lavender top (EDTA) tube Alternate tube: Green (Li or Na Heparin), no gel tube
Draw Volume:	2 mL (Minimum: 0.4 mL) blood
Processed Volume:	Same as Draw Volume
Processed Volume:	Same as Draw Volume

Collection:	EDTA whole blood (purple top) is preferred. Heparinized whole blood is acceptable.	
Special Processing:	Lab Staff: Do Not centrifuge specimen. Submit specimen in original collection container. Store and ship specimen at ambient temperature.	
	Sendouts: Do Not order this test in Atlas. Specimen accompanied with a UM transplant requisition. Forw	
Patient Preparation:	None	
Sample Rejection:	Mislabeled or unlabeled specimens	
Interpretive		
Reference Range:	Therapeutic range based on draw immediately prior to next dose. Default Therapeutic Range: 50 – 400 ug/L	
	Kidney Transplant (months post transplant):	Range (ug/L)
	Pediatric	
	0 – 3 months:	175 - 200
	3 – 6 months:	150 – 175
	6 – 9 months:	125 – 150
	9 – 12 months:	100 – 125
	>12 months:	75 – 100
	Adult	
	0 – 3 months:	175 – 200
	3 – 6 months:	150 – 200
	6 – 12 months:	125 – 150
	>12 months:	75 – 100
	Heart Transplant (months post transplant)	Range (ug/L)
	Pediatric	
	0 – 12 months:	200 –250

>12 months:	100 – 125
EBV PCR >1000 copies/mL:	80 – 100
Adult	
0 – 3 months:	150 – 250
3 – 6 months:	125 – 225
6 – 12 months:	100 - 200
>12 months:	50 – 150
Heart – Lung Block	200 – 250
Lung Transplant (months post transplant)	Range (ug/L)
0 – 12 months:	175 – 225
>12 months:	125 – 175
Liver Transplant (months post transplant)	Range (ug/L)
0 – 6 months:	150 – 200
>6 months:	100 – 150
Pancreas Transplant (months post transplant)	Range (ug/L)
0 – 6 months:	200 – 250
6 – 12 months:	150 – 200
>12 months:	100 – 150
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Limitations: The recommended therapeutic ranges described above apply to trough specimens collected just before the next dose. Blood collected at other times will yield higher results.

Critical Values:

 Methodology:
 Liquid Chromatography/Tandem Mass Spectrometry (HPLC-MS/MS)

References:	Fairview University Web Page November 2012
Updates:	8/20/2009: Critical value previously listed as >60 ug/L. 11/12/2012: Updated reference ranges.