



UNIVERSITY OF COLORADO HOSPITAL

ANSCHUTZ MEDICAL CAMPUS

Test Update Cyclosporine, Sirolimus, and Tacrolimus

Immunosuppressant Testing

On **December 1, 2009** the University of Colorado Hospital will change the testing platform for **tacrolimus** from the Abbot TDX/FLX to the Abbott Architect, I2000SR. Results for the new and old methods are equivalent and the reference range and critical values will remain the same.

On **December 29 2009** the current **cyclosporine** TDX/FLX and **sirolimus** LCMS assays will also be moved to the Architect. Until December 29, 2009, the current cyclosporine and sirolimus methods will be run concurrently with the new methods to allow clinicians to compare results.

Architect cyclosporine test results will be about 20% lower than the current TDX/FLX cyclosporine results. The suggested therapeutic ranges and critical values will be altered accordingly. Patients responding well within the current suggested therapeutic ranges should continue to do well within the new suggested therapeutic ranges.

Architect sirolimus test results will be about 50% higher than the current LCMS Sirolimus results. The suggested therapeutic ranges and critical values will be altered accordingly. Patients responding well within the current suggested therapeutic ranges should continue to do well within the new suggested therapeutic ranges.

Immunosuppressant	Current Reference Range (ng/mL)	Current Critical Level (ng/mL)	New Reference Range, if different (ng/mL)	New Critical Level, if different (ng/mL)
Tacrolimus	8.0 – 18.0	>25.0	No change	No change
Cyclosporine, Heart	250 - 350	>500	200 - 280	>400
Cyclosporine, Liver	300 - 500	>500	240 – 400	>400
Cyclosporine, Kidney	150 - 300	>500	120 - 240	>400
Sirolimus	3.0 – 8.0	>30.0	4.5 – 13.0	>33.0

Please call Lorne Holland, MD at 720-848-7050 if you have any questions or visit our website at <http://www.uch.edu/for-healthcare-professional/Clinical-Laboratory/index.aspx> for additional information.

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Clinical Laboratory
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