

TEST UPDATE

T3, Total Reference Range Changes

UVMMC

On 8/27/25, the UVMHN Clinical Laboratories will be upgrading to the next generation Total T3 (TT3) assay on our Ortho Clinical Diagnostics Vitros 7600 platform. The test name and ordering process will remain the same. The new generation TT3 assay has improved performance with an average -10% bias vs. the older assay. This improvement necessitates a slight change to the reference ranges as detailed below.

Affected Orderable:

Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC
T3, Total	LAB136	TT3	FAH5785	3053-6

The updated reference ranges are as follows:

Age Bracket	Biological Sex	Current Reference Range	New Reference Range
0-2 weeks	All	31-301 ng/dL	28-271 ng/dL
2 weeks- 10y	All	139-301 ng/dL	125-271 ng/dL
10-18y	Male	127-339 ng/dL	114-305 ng/dL
10-18y	Female	112-208 ng/dL	100-187 ng/dL
≥18y	All	97-169 ng/dL	82-158 ng/dL

These updated reference ranges have been verified by the lab in internal studies. Correlation studies between the new and current generation assays are excellent.

If you have any questions concerning these changes, please contact the Network Medical Director of Clinical Chemistry, Dr. Clayton Wilburn (clayton.wilburn@uvmhealth.org).

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