TEST UPDATE
T3, Total Reference Range Update
UVMMC

*****The original notification for these changes was forwarded on 8/11/25 and stated the effective date was scheduled for 8/27/25. Unfortunately, due to unforeseen circumstances, we were unable to meet that effective date and have rescheduled the go live date for these changes to 10/7/25. We apologize for any inconvenience this may have caused.*****

On 10/7/25, the UVMHN Clinical Laboratories will be upgrading to the next generation TT3 assay (TT3-2) on the Ortho Clinical Diagnostics Vitros 7600 platform. The test name and ordering process will remain the same. The new TT3-2 assay utilizes a monoclonal antibody instead of a polyclonal antibody, resulting in improved sensitivity and specificity. However, due to the antibody change and calibration differences, the numerical values reported by TT3-2 are generally lower than those from TT3, with an average difference of approximately –10 to –15%. In some individual samples, the difference may be greater, primarily due to variations in antibody detection. For patients undergoing monitoring, please interpret changes in test results with caution, keeping the method differences in mind. For this reason, a comment will be added to all new results to remind providers that results prior to the change in assay on 10/7/25 may not trend with the newer assay. The UVMMC lab will also maintain a small stock of the original TT3 assay for 2-3 months to assist in comparisons between the new and old assay on patients whose new assay results differ significantly from their old measurements that you wish for us to investigate.

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.

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

University of Vermont Health

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