Memorandum: Core #226

To: UNC Hospitals Attending Physicians, UNC Faculty Physicians, House staff, Department Heads and Supervisors

From: Steven W. Cotten PhD, Director, Automated Chemistry and Critical Care Testing UNC Medical Center
Herbert C. Whinna MD, PhD; Director, McLendon Clinical Laboratories
Jason Merker MD, Laboratory Director UNC Hospitals, Eastowne
Mariama Evans MD, Laboratory Director, Hillsborough Hospital

Date: 8/15/2025

Subject: Updated formulation of TSH reagent with modified lower limit

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Effective Monday 8/18/25 the UNC Medical Center, UNC Hillsborough Hospital and UNC Eastowne will implement an updated TSH reagent. The new reagent has improved ability to detect TSH in a wide array of populations dispersed globally. Certain point mutations in the beta submit of TSH have previously been reported to inhibit detection of the biologically active protein. Additionally, the lower limit of quantitation will change slightly with the new formulation.

Previous Lower Limit of Quantitation	New Lower Limit of Quantitation
0.008 mIU/L	0.01 mIU/L

If you have any questions, please contact the Core Laboratory 984-974-2361 or Dr. Steven Cotten at 984-974-1489

References:

Falsely Undetectable TSH in a Cohort of South Asian Euthyroid Patients
https://pubmed.ncbi.nlm.nih.gov/24423284/