

NT-proBNP Assay Update

Effective 3/15/2023, the UVMMC Clinical Chemistry Laboratory will be upgrading to the next generation NT-proBNP assay on our Ortho Clinical Diagnostics Vitros 5600 platform. The test name and ordering process will remain the same.

Orderable	Epic Code	Atlas Code	Mayo Access ID	Order LOINC	CPT Code
NT-proBNP	LAB106	NTBNP	FAH5502	30934-4	83880

The new generation NT-proBNP assay comes with a reference range update from the manufacturer. **This change in reference range is shown in the tables below.**

Current Reference Ranges:

Age	Sex	Low	High	Units
0 - 3 days	All	321	11,987	pg/mL
3 days - 12 days	All	263	5,918	pg/mL
12 days - 1 year	All	27	646	pg/mL
1 year - 2 years	All	39	413	pg/mL
2 years - 6 years	All	23	289	pg/mL
6 years - 14 years	All	10	157	pg/mL
14 years - 18 years	All	6	158	pg/mL
18 years - 75 years	All		<125	pg/mL
≥75 years	All		<450	pg/mL

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PATHOLOGY & LABORATORY MEDICINE

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NT-proBNP Assay Update

New Reference Ranges:

Age	Sex	Low	High	Units
0 - 3 days	All	321	11,987	pg/mL
3 days - 12 days	All	263	5,918	pg/mL
12 days - 1 year	All	27	646	pg/mL
1 year - 2 years	All	39	413	pg/mL
2 years - 6 years	All	23	289	pg/mL
6 years - 14 years	All	<20	157	pg/mL
14 years - 18 years	All	<20	158	pg/mL
18 years - 50 years	Female		<95	pg/mL
50 years - 75 years	Female		<221	pg/mL
≥75 years	Female		<296	pg/mL
18 years - 50 years	Male		<125	pg/mL
50 years - 75 years	Male		<299	pg/mL
≥75 years	Male		<326	pg/mL

Additionally, all results will have the following comments attached to aid in evaluation of heart failure:

"In the acute setting, NT-proBNP values <300 pg/mL have a 98% NPV for excluding acute heart failure.

In outpatient populations, NT-proBNP values <125 pg/mL have a 99% NPV for excluding heart failure."

This updated reference range has been verified by the lab in internal studies. Correlation studies between the new and current generation assays are excellent. In addition, this generation of assay has been improved to have significantly reduced interference from biotin and, therefore, the biotin interference comment "The results of this assay can be falsely lowered due to the consumption of Biotin. Please instruct patients to discontinue the use of vitamins or supplements that contain Biotin 12 hours before blood collection", will no longer be attached to the NT-proBNP results.

Please note that the UVMHC lab will discontinue calling NT-proBNP values >5000 pg/mL on outpatient specimens beginning 3/15/2023.

If you have any questions concerning this change, please contact Dr. Clayton Wilburn (clayton.wilburn@uvmhealth.org) in the UVMHC laboratory.

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