

Clinical Pathology Laboratories

New Test Announcement

N-terminal pro B-type Natriuretic Peptide (NT-proBNP)

Effective April 24, 2017, Clinical Pathology Laboratories will offer in-house testing for NT-proBNP as a replacement for current BNP testing.

Atrial- and brain-type natriuretic peptides (ANPs and BNP) are produced in cardiac tissues in response to ventricular dysfunction and atrial distension.

NT-proBNP aids in the:

- Diagnosis and prognosis of individuals suspected of having congestive heart failure
- Risk stratification of patients with acute coronary syndrome and congestive heart failure
- Assessment of increased risk of cardiovascular events and mortality in patients at risk for heart failure who have stable coronary artery disease

NT-proBNP, in contrast to Brain Natriuretic Peptide (BNP), is:

- Unaffected by the new class of Neprilysin Inhibitors (e.g. Entresto®)
- Suitable as a Biomarker for congestive heart failure
- Stable when collected, stored and transported at Ambient, Refrigerated and Frozen Temperatures

The table below demonstrates NT-proBNP performance characteristics by age range.

Age in years	Male				Female			
	45-54	55-64	65-74	≥ 75	45-54	55-64	65-74	≥ 75
% Sensitivity	88.2	69.6	91.7	86.5	90.5	89.3	94.3	81.8
% Specificity	93.3	87.8	86.7	88.9	85.5	79.9	57.8	87.9
% Prevalence	1.8	6.2	6.8	9.8	1.3	3.4	6.6	9.7
% NPV	99.8	99.2	99.3	98.8	99.9	99.5	99.3	97.8

In-house testing for BNP (unit code 5585) will be discontinued May 10, 2017. Please contact your Sales Representative should you have any questions regarding this change.

Order Unit Code/Test Name:	5722 NT-proBNP
Test Method:	Electrochemiluminescence Immunoassay (ECLIA)
Specimen Requirements:	2 mL serum. Allow Serum Separator Tube (SST) to clot in an upright position for at least 30 minutes, then centrifuge sample within 2 hours of collection. Refrigerate (2-8 °C) <i>Note: Samples should not be collected from patients receiving therapy with high Biotin doses (> 5 mg/day) until at least 8 hours following the last Biotin administration.</i>
Specimen Rejection Criteria:	Grossly hemolyzed specimens will be rejected
Transport Temperature:	Refrigerated (2-8 °C)
Stability (collection to initiation of testing):	Ambient (15-25 °C) - 3 days; Refrigerated (2-8 °C) - 6 days; Frozen (≤ -20 °) - 1 month
Performed:	Monday –Friday
Analytic Time:	1 day
Reference Range:	< 75 years: 124 pg/mL or less ≥ 75 years: 449 pg/mL or less
CPT Code:	83880

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