

Subject: New Cardiac Test Ranges

Effective Date: 12/15/2008

Explanation of Change: The Laboratory will be updating our Chemistry instrumentation. With this change, there will be some changes in normal reference range reporting and the test menu.

Reference range adjustments have been confirmed for our NWH normal patient population. The changes are necessary due to modifications in methodology and to better align ourselves with community standards for reporting. The conversion from BNP to NT-proBNP provides more specific testing for chronic heart failure.

The changes are as follows:

Test	Current Reference Range	New Reference Range
CPK (no change)	Female 30 – 231 U/L Male 30 – 285 U/L	Female 30 – 231 U/L Male 30 – 285 U/L
CKMB	0 – 9.5 ug/L	0 – 3.6 ug/L
CKMB Index becomes Relative Index	(0 – 100) (CKMB/CK)*1000 Inpatient panic > 270 Outpatient panic > 100	(0 – 3) (CKMB/CK)*100 Panic > 5.0
TROP (no change)	0 – 0.04 ng/mL Panic > 0.79 ng/mL	0 – 0.04 ng/mL Panic > 0.79 ng/mL
BNP becomes NT-proBNP	(0 – 100)	Among patients presenting with dyspnea in an acute care setting, values outside the following ranges have a high correlation with acute congestive heart failure: < 50 years: 0 - 450 pg/mL Age 50-75 years: 0 - 900 pg/mL Age > 75 years: 0 - 1800 pg/mL In addition, an NT-proBNP < 300 pg/mL effectively rules out acute congestive heart failure with a 99% negative predictive value. Patients in a primary care (non-acute care) setting should be evaluated with the following ranges: Age < 75 years: 0 - 125 pg/mL Age >74 years: 0 - 450 pg/mL Clinical correlation is necessary.

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