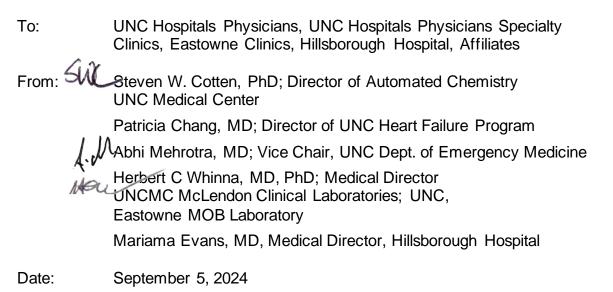


Memorandum – Core #213



Subject: NT-proBNP replaces BNP

Effective 09/9/2024, UNC Medical Center, Hillsborough Hospital, and Eastowne laboratories will transition back to NT-proBNP away from BNP. This comes after a 3-year temporary switch to BNP while our diagnostics manufacturer sought FDA approval of their NT-proBNP assay. All order sets containing BNP orders have automatically been updated in EPIC to NT-proBNP. BNP and NT-proBNP values are not interchangeable. A reference range of <300 for NT-proBNP strongly rules out the presence of acute heart failure.

	BNP (Current)	NT-proBNP (New)	
EPIC Normal Range	<100	<300	

NT-proBNP values vary by age and different cutoffs may be appropriate depending upon if the test is being used to rule in or rule out heart failure. The ICON-RELOADED Study (Januzzi JL, et al. Journal American College Cardiology 2018, PMID 29544601) is the most recent assessment of the diagnostic performance of NT-proBNP for heart failure. (See Table on Next Page)

Category	Cutoff	Sensitivity	Specificity	PPV	NPV	
Rule out						
All Patients	<300	93.9	71.7	43.7	98.0	
Rule In						
<50 years	<450	85.7	93.9	53.6	98.8	
50-75 years	<900	79.3	84.0	58.4	93.5	
>75 years	<1800	75.9	75.0	62.0	85.3	

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