

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Cho MD (Pathology & Chairman & Const	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Dr. P.S AHUJA			
AGE/ GENDER	: 74 YRS/Male	PATI	ENT ID	: 1741563
OLLECTED BY	:	REG.	NO./LAB NO.	: 012501310054
EFERRED BY	:	REGI	STRATION DATE	: 31/Jan/2025 04:20 PM
ARCODE NO.	:01524728	COLL	ECTION DATE	: 31/Jan/2025 04:21PM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 31/Jan/2025 07:13PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Cest Name		Value	Unit	Biological Reference interval
		UNOPATHOLO		
		I ULTRASENSIT	IVE (QUANTITA	ATIVE)
<i>by ELFA (ENZYME LIN</i> GENERATION, ULTRASE <u>NTERPRETATION:</u> IOTE: .False negative / po	ASENSITIVE (QUANTITATIVE) KED FLUORESCENT IMMUNOASSAY), ENSITIVE sitive results are observed in patio		ng/mL nonoclonal antibodi	< 0.50 es for diagnosis or therapy.
DMMENTS Troponin is a regula	atory complex of 3 proteins that r	esides at regular inter	als in the thin filam	ent of striated muscle.
Cardiac Troponin is egenerating or disea	a cardiospecific, highly sensitive as a cardiospecific, highly sensitive as a cardiospecific and sensitive as a	marker of myocardial	damage and has nev	ver shown to be expressed in normal,
In cases of acute m levated upto 10 day	yocardial damage, Troponin I leve	els rise in serum about	3-4 hours after app	earance of cardiac symptoms and remain
It is an independen ICREASED LEVELS Congestive Heart Fa Cardiomyopathy	t prognostic marker which can pre	dict near, mid and long	g term outcome in pa	atients with Acute Coronary Syndrome (ACS).
.Myocarditis .Heart contusion				
Interventional ther. SES	apy like cardiac surgery and drug	induced cardiotoxicity	/	
.To differentiate pat nd / or CK-MB are c ormal range.	ients with Non ST elevation Myoc onsidered to have NSTMI whereas hould be measured at presentatio	s the diagnosis of Unst	able angina is establ	ngina-patients with ACS with elevated Troponin ished if Troponin I and CK-MB are within the
ours if earlier speci . Risk stratification (ssessment, in ACS, 1	mens are normal and the clinical	suspicion is high. nd for cardiac risk in p ncluded in practice qui	atients with Chronic delines.	Renal Failure. As it offers powerful risk
	DR.VINAY CHOPRA	DR.YUGAM CH	OPRA	

CONSULTANT PATHOLOGIST

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 31/Jan/2025 07:45PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference in	terval
		SPECIAL INVEST			
	N-TERMINAL PRO	B TYPE NATRIUR	ETIC PEPTIDE		
(NT-PRO BNP)		B TYPE NATRIU		(NT-PRO BNP) < 300	
(NT-PRO BNP) by ELFA (ENZYME LIN	N-TERMINAL PRO 3 TYPE NATRIURETIC PEPTID	B TYPE NATRIUR E 159	RETIC PEPTIDE pg/mL		
(NT-PRO BNP) by ELFA (ENZYME LIN	N-TERMINAL PRO B TYPE NATRIURETIC PEPTID WKED FLOURESCENT ASSAY) AGE AND CONDITION R	B TYPE NATRIUR E 159	RETIC PEPTIDE pg/mL		
(NT-PRO BNP) by ELFA (ENZYME LIN INTERPRETATION: AGE (N-TERMINAL PRO 3 TYPE NATRIURETIC PEPTID WILL WILL WILL WILL WILL WILL WILL WILL	B TYPE NATRIUE E 159 ELATED CUT OFF VALUES ACUTE HEART FAILURE UNITS (pg/mL)	ETIC PEPTIDE pg/mL	< 300 NAL CUT OFF VALUE	
(NT-PRO BNP) by ELFA (ENZYME LIN INTERPRETATION: AGE (N-TERMINAL PRO 3 TYPE NATRIURETIC PEPTID WED FLOURESCENT ASSAY) AGE AND CONDITION RI IN A Years) 50	B TYPE NATRIUE E 159 ELATED CUT OFF VALUES ACUTE HEART FAILURE UNITS (pg/mL) pg/mL	ETIC PEPTIDE pg/mL	< 300 AL CUT OFF VALUE 450	
(NT-PRO BNP) by ELFA (ENZYME LIN INTERPRETATION: AGE (< 50	N-TERMINAL PRO 3 TYPE NATRIURETIC PEPTID WILL WILL WILL WILL WILL WILL WILL WILL	B TYPE NATRIUE E 159 ELATED CUT OFF VALUES ACUTE HEART FAILURE UNITS (pg/mL)	ETIC PEPTIDE pg/mL	< 300 NAL CUT OFF VALUE	

The N-terminal of the prohormone brain natriuretic peptide (NT-proBNP), is a 76 amino acid terminal inactive protein that is cleaved from proBNP to release brain natriuretic peptide.

pg/mL

pg/mL NEGATIVE PREDICTIVE VALUE CUT OFF FOR NT-PRO BNP: < 300 pg/ml (HEART FAILUE UNLIKELY)

The main physiological function of NP is homeostasis and protection of among others the cardiovascular (CV) system from the effects of volume overload. They play an important role in regulating blood pressure (BP) and body fluid volume by their natriuretic and diuretic actions, arterial dilatation, and inhibition of the renin angiotensin system.

125

450

Concentrations of NP increase in patients with congestive heart failure (CHF) and other CV diseases owing to pressure and volume overload, whereas levels below cutoff are a strong negative predictor for CHF.

Both BNP and NT-proBNP levels in the blood are used for screening, diagnosis of acute congestive heart failure (CHF) and may be useful to establish prognosis in heart failure, as both markers are typically higher in patients with worse outcome. The plasma concentrations of both BNP and NT-proBNP are also typically increased in patients with asymptomatic or symptomatic left ventricular dysfunction and is associated with coronary artery disease and myocardial ischemia

It can be used, along with other cardiac biomarkers test, to detect heart stress and damage and/or along with lung function tests to distinguish between causes of shortness of breath. Heart failure can be confused with other conditions, and it may co-exist with them. BNP and NT-proBNP



< 75

>75

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Test Name		Value Unit	Biological Reference interval		

levels can help doctors differentiate between heart failure and other problems, such as lung disease. An accurate diagnosis is important because the treatments are often different and must be started as soon as possible.

A BNP or NT-proBNP test may be ordered when a person has signs and symptoms that could be due to heart failure. These may include: 1.Difficulty breathing, shortness of breath

2.Fatigue

3.Swelling in the feet, ankles, legs, abdomen

NOTE:

1.Lack of NT-ProBNP elevation has been reported if Congestive Heart Failure (CHF) is very acute (first hour) or if there is Ventricular inflow obstruction

2.As per a number of studies, threshold for NT-ProBNP is 125 pg/mL

3.BNP and NT-proBNP levels decrease in most people who are taking drug therapies for heart failure, such as angiotensin-converting enzyme (ACE) inhibitors, beta blockers and diuretics.

4.Levels of both BNP and NT-proBNP tend to increase with age.

5. Levels of NT-proBNP and BNP may be increased in persons with kidney disease due to reduced clearance.

6. While both BNP and NT-proBNP will rise with left ventricle dysfunction and either can be measured for diagnosis or monitoring therapy, they are not interchangeable and the results cannot be directly compared.

7.Results to be clinically correlated.

CLINICAL USE:

1.As an aid in the diagnosis of suspected cases of CHF

2. Detection of mild forms of cardiac dysfunction

3.To assess severity of heart failure in already diagnosed cases of CHF

4.For risk stratification of patients with Acute Coronary Syndrome & CHF For monitoring therapy in patients with Left Ventricular dysfunction

*** End Of Report ***





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