P K R JAIN HEALTHCARE INSTITUTE
NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)
A PIONEER DIAGNOSTIC CENTRE
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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

NAME	**: Mr. NARINDER SINGH**		
AGE/ GENDER	: 48 YRS/MALE	**PATIENT ID**	: 1783273
COLLECTED BY	:	**REG. NO./LAB NO.**	**: 122503080016**
REFERRED BY	:	**REGISTRATION DATE**	: 08/Mar/2025 11:13 AM
BARCODE NO.	: 12507409	**COLLECTION DATE**	: 08/Mar/2025 11:32AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	**REPORTING DATE**	: 08/Mar/2025 02:15PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA		

Test Name	Value	Unit	Biological Reference interval

IMMUNOPATHOLOGY/SEROLOGY

TROPONIN T (QUALITATIVE)

TROPONIN T: BLOOD *by IMMUNOCHROMATOGRAPHY*	NEGATIVE (-ve)		

INTERPRETATION:

NOTE:

1.False positive results can be seen in the presence of Rheumatoid factor and heterophile antibodies.

2. Due to the release kinetics of cardiac troponin T, an initial test result < 99th percentile within the initial hours of onset of symptoms does not rule out Myocardial Infarction with certainty. If MI is still suspected, repeat the test 3 hours after initial assessment.

COMMENTS:

1.Cardiac Troponin is a cardiospecific, highly sensitive marker of myocardial damage, but is also expressed by diseased skeletal muscle.
2.The most common cause of cardiac injury is myocardial ischemia, ie, acute myocardial infarction. Troponin T becomes elevated 2 to 4 hours after the onset of myocardial necrosis, and can remain elevated for up to 14 days.
3.Elevations in troponin T are also seen in patients with unstable angina. The finding of unstable angina and an elevated troponin T are known to have adverse short- and long-term prognosis, as well as a unique beneficial response to an invasive interventional strategy and treatment with the newer antiplatelet agents and low-molecular-weight heparin.

CARDIAC CAUSES LEADING TO INCREASED LEVELS:

1.Congestive Heart Failure
2.Cardiomyopathy
3.Myocarditis,
4.Heart contusion
5.Interventional therapy like cardiac surgery and drug induced cardiotoxicity

NON CARDIAC CAUSES LEADING TO INCREASED LEVELS:

1.Renal Failure
2.Lung embolism
3.Non-cardiac surgery
4.Rhabdomyolysis
5.Polymyositis
6.Stroke & Left Ventricular dysfunction in Septic shock

THE TEST IS USEFUL IN FOLLOWING CONDITIONS:

1.Exclusion diagnosis of acute myocardial infarction
2.Monitoring acute coronary syndromes and estimating prognosis
3.Possible utility in monitoring patients with non-ischemic causes of cardiac injury.

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SPECIAL INVESTIGATIONS

N-TERMINAL PRO B TYPE NATRIURETIC PEPTIDE (NT-PRO BNP)

N-TERMINA PRO B TYPE NATRIURETIC PEPTIDE (NT-PRO BNP)	12.01	pg/mL	< 300

by ELFA (ENZYME LINKED FLOURESCENT ASSAY)

INTERPRETATION:

AGE AND CONDITION RELATED CUT OFF VALUES FOR NT-PRO BNP		
IN ACUTE HEART FAILURE		
AGE (Years)	**UNITS (pg/mL)**	**OPTIMAL CUT OFF VALUE**
< 50	pg/mL	450
50 - 75	pg/mL	900
>75	pg/mL	1800
IN CHRONIC HEART FAILURE		
< 75	pg/mL	125
>75	pg/mL	450
NEGATIVE PREDICTIVE VALUE CUT OFF FOR NT-PRO BNP: < 300 pg/ml (HEART FAILUE UNLIKELY)		

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.

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.

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

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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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