

Client
Gurugram
Pathkind Diagnostics Pvt. Ltd.
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

Processed By
Pathkind Diagnostics Pvt. Ltd.
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

Name : Mr. CL125	Billing Date : 07/07/2023 12:18:04
Age : 35 Yrs	Sample Collected on : 10/07/2023 10:01:31
Sex : Male	Sample Received on : 10/07/2023 11:02:13
P. ID No. : P1000100012608	Report Released on : 14/07/2023 18:37:04
Accession No : 10002304664	Barcode No. : 10002304664-01
Referring Doctor : Self	
Referred By :	Ref no. :

Report Status - Final

Test Name	Result	Biological Ref. Interval	Unit
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BIOCHEMISTRY

Troponin T, Quantitative <i>Sample: Serum</i> <i>Method: Electrochemiluminescence</i>	6.900	0.000 - 14.000	pg/mL
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Troponin T, Quantitative

Troponin T (TnT) is a component of the contractile apparatus of the striated musculature. Although the function of TnT is the same in all striated muscles, TnT originating exclusively from the myocardium (cardiac TnT, molecular weight 39.7 kDa) clearly differs from skeletal muscle TnT. As a result of its high tissue-specificity, cardiac troponin T (cTnT) is a cardio-specific, highly sensitive marker for myocardial damage. Clinical assessment, 12-lead electrocardiography (ECG) and measurement of cardiac troponin levels form the pillars for the early diagnosis of acute MI in the emergency department. Cardiac troponin T increases rapidly after acute myocardial infarction (AMI) and may persist up to 2 weeks thereafter. The 2015 ESC guidelines on NSTEMI proposed to shorten the observation time to 0 h/1 h. This accelerated approach to rule in or rule out AMI within 0 h/1 h requires high-sensitive cardiac troponin (hs-cTn) tests and an algorithm validated for the specific hs-cTn assay. Myocardial cell injury leading to elevated cTnT concentrations in the blood can also occur in other clinical conditions such as myocarditis, heart contusion, pulmonary embolism and drug-induced cardiotoxicity. Other diagnostic tests such as myoglobin, CK-MB, NT-proBNP, and CRP can complement the diagnostic and prognostic information of troponin T in different indications.

Reference: "Prospective validation of a 1-hour algorithm to rule-out and rule-in acute myocardial infarction using a high-sensitivity cardiac troponin T assay"-CMAJ

** End of Report **



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