

## **Investigation Corner**

## Ntpro BNP

## IS MY HEART FUNCTIONING GOOD

- B-type natriuretic peptide (brain natriuretic peptide:BNP) is small, ringed peptide secreted by the heart to regulate blood pressure and fluid balance.
- Oncereleased from the heart in response to ventricle volume expansion of pressure over load, theN-terminal(NT)piece 76 aminoacids (NT-proBNP)is rapidly cleaved by the enzymescorin and furintoreleasetheactive32-amino acid peptide(BNP)
- Both Band C-proBNP markers of atrial and ventricular distension due to increase d intracardiac pressure.
- Normallevel: Lessthan125pg/mL for patient saged 0-74 years.Lessthan 450pg/mL for patients aged 75-99 years.
- An increase in the level of N-terminal pro-B-type natriuretic peptide(NT-proBNP) in dicates impairment of cardiac function and is animportant biomarker for thdiagnosis and estimation of prognosis in cardiacin sufficiency.

## Ntpro BNP & COVID

- Factors like SARS-CoV-2 infection and invasion into cardio my ocytes via the binding site of angiotens in-convertin genzyme-related carboxypeptidase (ACE2), the pulmonary in fection induced in adequate oxygen supply to the myo Cardium and the influences of cytokine storm syndrome might also contribute to the cardiac injury.
- All these contribute stone elevation of NT-proBNP and indicates poor prognosis in patients with COVID-19.
- By Investigating the prognostic effect of NT-proBNP level of severe COVID-19 patients at admission, might be helpful to identify patients with poor prognosis

Dr. Chandra Mouleeswari Prof & HOD Centrallaboratory, TNGMSSH

Dr. J. Rathi Roopavathy Junior Consultant Centrallaboratory, TNGMSSH