



**Yashvi M. Patel**

Age : 21 Years

Sex : Female

UHID : 556



**Sample Collected At:**

125, Shiv complex, S G Road, Mumbai

**Sample Collected By:** Mr Suresh

Ref. By: **Dr. Hiren Shah**



Registered on: 02:31 PM 02 Dec, 2X

Collected on: 03:11 PM 02 Dec, 2X

Reported on: 04:35 PM 02 Dec, 2X

## B-TYPE NATRIURETIC PEPTIDE (BNP)

Investigation	Result	Reference Value	Unit
<b>Sample Type</b>	Plasma (2 ml)	<b>TAT : 1 hr</b> (Normal: 1 - 4 hrs)	
<b>BNP (B-TYPE NATRIURETIC PEPTIDE)</b>	<b>18.00</b>	<b>Normal</b> < 29.40	pg/mL
CLIA			

### Note:

1. This test should be used in conjunction with medical history, clinical evaluation and other diagnostic procedures
2. Several clinical factors affect the BNP concentration like age, gender, BMI & renal function
3. The most appropriate decision threshold (specificity >97%) for determining heart failure is 100 pg/mL

### IntInterpretation:

BNP concentration in patients of Heart failure.

NYHA CLASSES	5TH -95TH PERCENTILE	> 100 pg/mL (%)
I	< 2 - 772	43.1
II	5.4 - 999	58.7
III	21.1 - 1696	82.0
IV	109 - 3157	95.8
ALL	10.8 - 1873	72.6

### Comments:

B-type natriuretic peptide (BNP) primarily accumulates in the myocardium and shares similar biological effects with Atrial Natriuretic Peptide (ANP). Elevated BNP levels are observed in individuals experiencing hypervolemic conditions such as congestive heart failure and hypertension. The concentrations of BNP in the bloodstream are directly associated with an increased risk of cardiac events and mortality in heart failure patients.

### High Levels:

- Cardiac Causes: Heart failure, Asymptomatic left ventricular dysfunction, Arterial and pulmonary hypertension, Cardiac hypertrophy, Valvular heart disease, Arrhythmia, Acute coronary syndrome.
- Non-Cardiac Causes: Acute and chronic renal failure, Liver cirrhosis, Hyperaldosteronism, Cushing's syndrome.

### Clinical Use:

- Confirmation of heart failure in patients with unclear clinical symptoms.

Thanks for Reference

\*\*\*\*End of Report\*\*\*\*

**Medical Lab Technician**

(DMLT, BMLT)

**Dr. Payal Shah**

(MD, Pathologist)

**Dr. Vimal Shah**

(MD, Pathologist)





**Yash M. Patel**

Age : 21 Years

Sex : Male

PID : 555



**Sample Collected At:**

125, Shivam Bungalow, S G Road,  
Mumbai

Ref. By: **Dr. Hiren Shah**



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## Complete Blood Count (CBC)

Investigation	Result	Reference Value	Unit
Primary Sample Type :	Blood		
<b>HEMOGLOBIN</b>			
Hemoglobin (Hb)	12.5	Low 13.0 - 17.0	g/dL
<b>RBC COUNT</b>			
Total RBC count	5.2	4.5 - 5.5	mill/cumm
<b>BLOOD INDICES</b>			
Packed Cell Volume (PCV)	57.5	High 40 - 50	%
Mean Corpuscular Volume (MCV) Calculated	87.75	83 - 101	fL
MCH Calculated	27.2	27 - 32	pg
MCHC Calculated	32.8	32.5 - 34.5	g/dL
RDW	13.6	11.6 - 14.0	%
<b>WBC COUNT</b>			
Total WBC count	9000	4000-11000	cumm
<b>DIFFERENTIAL WBC COUNT</b>			
Neutrophils	60	50 - 62	%
Lymphocytes	31	20 - 40	%
Eosinophils	1	00 - 06	%
Monocytes	7	00 - 10	%
Basophils	1	00 - 02	%
<b>PLATELET COUNT</b>			
Platelet Count	150000	Borderline 150000 - 410000	cumm

**Instruments:** Fully automated cell counter - Mindray 300

**Interpretation:** Further confirm for Anemia

Thanks for Reference

\*\*\*\*End of Report\*\*\*\*

**Medical Lab Technician**  
(DMLT, BMLT)

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(MD, Pathologist)

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## Complete Blood Count (CBC)

Investigation	Result	Reference Value	Unit
<b>Sample Type</b>	Blood (2 ml)	TAT : 1 day (Normal: 1 - 3 days)	
<b>Hemoglobin (Hb)</b> Immunoturbidimetry	13.00 Normal	13.00 - 17.00	g/dL
<b>Total RBC count</b> Electrical Impedance, VCS	5.00 Normal	4.50 - 5.50	mill/cumm
<b>BLOOD INDICES</b>			
<b>Packed Cell Volume (PCV)</b> Calculated	45 Normal	40 - 50	%
<b>Mean Corpuscular Volume (MCV)</b> Calculated	100 Normal	83 - 101	fL
<b>MCH</b> Calculated	30 Normal	27 - 32	pg
<b>MCHC</b> Calculated	33.00 Normal	32.50 - 34.50	g/dL
<b>RDW</b> Calculated	12.00 Normal	11.60 - 14.00	%
<b>Total WBC count</b> Electrical Impedance, VCS	10000 Normal	4000 - 11000	cumm
<b>DIFFERENTIAL WBC COUNT</b>			
<b>Neutrophils</b> Electrical Impedance, VCS	60 Normal	50 - 62	%
<b>Lymphocytes</b> Electrical Impedance, VCS	30 Normal	20 - 40	%
<b>Eosinophils</b> Electrical Impedance, VCS	2 Normal	00 - 06	%
<b>Monocytes</b> Electrical Impedance, VCS	8 Normal	00 - 10	%
<b>Basophils</b> Electrical Impedance, VCS	0 Normal	00 - 02	%
<b>Platelet Count</b> Electrical Impedance, VCS	20000 Normal	150000 - 410000	cumm

**Instruments:** Fully automated cell counter - Mindray 300

**Interpretation:** Further confirm for Anemia

Thanks for Reference

\*\*\*\*End of Report\*\*\*\*

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