

Name : Mr. NANDU SUBHASH PATIL

PID No. : MED110960679

Register On : 19/02/2022 9:07 AM

SID No. : 79133908

Collection On : 19/02/2022 10:06 AM

Age / Sex : 44 Year(s) / Male

Report On : 19/02/2022 2:10 PM

Type : OP

Printed On : 23/02/2022 11:53 AM

Ref. Dr : MediWheel




<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
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## HAEMATOLOGY

### Complete Blood Count With - ESR

Haemoglobin (Blood/Spectrophotometry)	17.2	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (Blood/Derived from Impedance)	51.7	%	42 - 52
RBC Count (Blood/Impedance Variation)	<b>6.33</b>	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (Blood/Derived from Impedance)	82	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (Blood/Derived from Impedance)	<b>26.8</b>	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (Blood/Derived from Impedance)	32.8	g/dL	32 - 36
RDW-CV (Derived from Impedance)	14.3	%	11.5 - 16.0
RDW-SD (Derived from Impedance)	41.04	fL	39 - 46
Total Leukocyte Count (TC) (Blood/Impedance Variation)	6400	cells/cu.mm	4000 - 11000
Neutrophils (Blood/Impedance Variation & Flow Cytometry)	47	%	40 - 75
Lymphocytes (Blood/Impedance Variation & Flow Cytometry)	<b>48</b>	%	20 - 45
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	02	%	01 - 06

  
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Monocytes (Blood/Impedance Variation & Flow Cytometry)	03	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	00	%	00 - 02
<b>INTERPRETATION:</b> Tests done on Automated Three Part cell counter. All abnormal results are reviewed and confirmed microscopically.			
Absolute Neutrophil count (Blood/Impedance Variation & Flow Cytometry)	3.01	10 <sup>3</sup> / $\mu$ l	1.5 - 6.6
Absolute Lymphocyte Count (Blood/Impedance Variation & Flow Cytometry)	3.07	10 <sup>3</sup> / $\mu$ l	1.5 - 3.5
Absolute Eosinophil Count (AEC) (Blood/Impedance Variation & Flow Cytometry)	0.13	10 <sup>3</sup> / $\mu$ l	0.04 - 0.44
Absolute Monocyte Count (Blood/Impedance Variation & Flow Cytometry)	0.19	10 <sup>3</sup> / $\mu$ l	< 1.0
Absolute Basophil count (Blood/Impedance Variation & Flow Cytometry)	0.00	10 <sup>3</sup> / $\mu$ l	< 0.2
Platelet Count (Blood/Impedance Variation)	1.52	lakh/cu.mm	1.4 - 4.5
MPV (Blood/Derived from Impedance)	<b>7.0</b>	fL	7.9 - 13.7
PCT (Automated Blood cell Counter)	0.11	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Blood/Automated ESR analyser)	04	mm/hr	< 15

  
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<b><u>BIOCHEMISTRY</u></b>			
<b><u>Liver Function Test</u></b>			
Bilirubin(Total) (Serum/DCA with ATCS)	1.06	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.20	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.86	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	30	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	<b>63 (Rechecked)</b>	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	87	U/L	53 - 128
Total Protein (Serum/Biuret)	7.6	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.0	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	3.60	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.11		1.1 - 2.2

  
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<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<b><u>Lipid Profile</u></b>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	<b>232 (Rechecked)</b>	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	<b>318 (Rechecked)</b>	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500

**INTERPRETATION:** The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the usual circulating level of triglycerides during most part of the day.

HDL Cholesterol (Serum/Immunoinhibition)	<b>41.8</b>	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	126.6	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	63.6	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	<b>190.2</b>	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220

  
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**INTERPRETATION:** 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol.  
2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	5.6		Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0
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Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated)	7.6		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
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LDL/HDL Cholesterol Ratio (Serum/Calculated)	3		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0
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A handwritten signature in black ink, appearing to read "Abhishek Laul", is positioned above a circular stamp. The stamp contains the text: "DR. ABHISHEK LAUL", "M.B.B.S.; M.D.Pathology", "Fellow Neuropathology", "(K.E.M. Hospital, Mumbai)", and "Reg No: 2011/04/0990".

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<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<b><u>Glycosylated Haemoglobin (HbA1c)</u></b>			
HbA1C (Whole Blood/Ion exchange HPLC)	<b>5.9</b>	%	Non-diabetic: <= 5.6 Pre-diabetic: 5.7-6.4 Diabetic: >= 6.5

**INTERPRETATION:** If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control >= 8.1 %

Mean Blood Glucose  
(Whole Blood)

123 mg/dL

**INTERPRETATION: Comments**

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glyceemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency, hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values.

Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.

**Remark:** \* Test outsourced to metropolis

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## **IMMUNOASSAY**

### **THYROID PROFILE / TFT**

T3 (Triiodothyronine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	<b>0.63</b>	ng/ml	0.7 - 2.04
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#### **INTERPRETATION:**

##### **Comment :**

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Tyroxine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	5.68	µg/dl	4.2 - 12.0
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#### **INTERPRETATION:**

##### **Comment :**

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

TSH (Thyroid Stimulating Hormone)- Ultrasensitive (Serum/Chemiluminescent Immunometric Assay (CLIA))	1.2422	µIU/mL	0.35 - 5.50
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#### **INTERPRETATION:**

Reference range for cord blood - upto 20

1 st trimester: 0.1-2.5

2 nd trimester 0.2-3.0

3 rd trimester : 0.3-3.0


(Indian Thyroid Society Guidelines)

##### **Comment :**

1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.

2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%,hence time of the day has influence on the measured serum TSH concentrations.

3.Values&amplt;0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.

  
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**CLINICAL PATHOLOGY**

**Urine Analysis - Routine**

**Physical Examination**

Colour (Urine)	Pale Yellow		Yellow to Amber
Appearance (Urine)	Clear		

**Chemical Examination**

Protein (Urine)	Negative		Negative
Glucose (Urine)	Negative		Negative

**Microscopic Examination**

Pus Cells (Urine)	0-1	/hpf	NIL
Epithelial Cells (Urine)	0-1	/hpf	Nil
RBCs (Urine)	Nil	/hpf	Nil
Others (Urine)	Nil		Nil

**INTERPRETATION:**Note: Done with Automated Urine Analyser & microscopy

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<b><u>Stool Analysis - ROUTINE</u></b>			
Colour (Stool)	Yellow		Brown
Blood (Stool)	Not present		Not present
Mucus (Stool)	Not present		Not present
Reaction (Stool)	Acidic		Acidic
Consistency (Stool)	Semi solid		Semi solid
Ova (Stool)	Nil		Nil
Others (Stool)	Nil		Nil
Cysts (Stool)	Nil		Nil
Trophozoites (Stool)	Nil		Nil
RBCs (Stool)	Nil	/hpf	Nil
Pus Cells (Stool)	2-3	/hpf	Nil
Macrophages (Stool)	Nil		Nil
Epithelial Cells (Stool)	3-4	/hpf	Nil

  
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**HAEMATOLOGY**

BLOOD GROUPING AND Rh TYPING  
(Blood/Agglutination)

'O' Positive'

A handwritten signature in blue ink, appearing to read "Abhishek Laul", is written over a circular logo with blue and pink elements.

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## **BIOCHEMISTRY**

BUN / Creatinine Ratio

10.78

Glucose Fasting (FBS)

91

mg/dL

(Plasma - F/GOD-PAP)

Normal: < 100  
Pre Diabetic: 100 - 125  
Diabetic: >= 126

**INTERPRETATION:** Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Glucose, Fasting (Urine)

Negative

Negative

(Urine - F)

Glucose Postprandial (PPBS)

98

mg/dL

(Plasma - PP/GOD-PAP)

70 - 140

### **INTERPRETATION:**

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti-diabetic medication during treatment for Diabetes.

Urine Glucose(PP-2 hours)

Negative

Negative

(Urine - PP)

Blood Urea Nitrogen (BUN)

12.61

mg/dL

(Serum/Urease UV / derived)

7.0 - 21

Creatinine

1.17

mg/dL

(Serum/Modified Jaffe)

0.9 - 1.3


Uric Acid

3.73

mg/dL

(Serum/Enzymatic)

3.5 - 7.2

  
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Prostate specific antigen - Total(PSA) (Serum/ <i>Manometric method</i> )	0.429	ng/mL	Normal: 0.0 - 4.0 Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0 Suspicious of Malignant disease of Prostate: > 10.0
--	-------	-------	--

**INTERPRETATION:** Analytical sensitivity: 0.008 - 100 ng/mL

PSA is a tumor marker for screening of prostate cancer. Increased levels of PSA are associated with prostate cancer and benign conditions like bacterial infection, inflammation of prostate gland and benign hypertrophy of prostate/ benign prostatic hyperplasia (BPH).

Transient elevation of PSA levels are seen following digital rectal examination, rigorous physical activity like bicycle riding, ejaculation within 24 hours.


PSA levels tend to increase in all men as they age.

Clinical Utility of PSA:

ÉIn the early detection of Prostate cancer.

ÉAs an aid in discriminating between Prostate cancer and Benign Prostatic disease.

ÉTo detect cancer recurrence or disease progression.



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-- End of Report --

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Age & Gender	44Y/MALE	Visit Date	19 Feb 2022
Ref Doctor Name	MediWheel		

## HEALTH CHECKUP

CHIEF COMPLAINTS: Nil

PAST HISTORY:

Medical: Nil

Surgical: No

PERSONAL HISTORY:

Marital Status: Married

No. of Children:-02

Habits: No. Tobacco & snuff: No. Smoking: No.

Alcohol: No.

Physical Activity: Walking.

Drug Allergies: Nil.

FAMILY HISTORY:

Father: Age 65 yrs - Healthy.

Mother: Age 60 yrs - Healthy.

Siblings: Brother-0 1 -Healthy, Sister-0 1 -Healthy

PHYSICAL EXAMINATION:

HEIGHT: 174 Cms.

WEIGHT: 86 Kgs.

BLOOD PRESSURE: 150 /100 mmHg.

PULSE: 90 /Min.

SKIN: Free From Contagious Diseases.

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With Spectacles

EYES EXAMINATION:            RIGHT            LEFT

NEAR VISION:                    N/6            N/6

DISTANCE VISION:            6/6            6/6

COLOR BLANDNESS: - WNL

SYSTEMIC REVIEW

Pallor: No

Icterus:-No

Cyanosis: No

Clubbing: No

Oedema: No

Lymphadenopathy : NO

Cardiovascular System: WNL

Respiratory System: WNL

Gastro Intestinal System: WNL

Central Nervous System: WNL

Genito Urinary System: WNL

Extremities & Spine: WNL

Final Impression:

Recommendation :

Name	MR.NANDU SUBHASH PATIL	ID	MED110960679
Age & Gender	44Y/MALE	Visit Date	19 Feb 2022
Ref Doctor Name	MediWheel		

Signature

Consultant Physician

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Age & Gender	44Y/MALE	Visit Date	19 Feb 2022
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### **X - RAY CHEST PA VIEW**

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

**IMPRESSION :Chest radiograph reveals no evidence of any Pleuro- pulmonary abnormality**



Dr. Rohan Kashyape  
MD, DNB

Dr. Parimal Sonawane  
DMRD, DNB



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### ECHOCARDIOGRAPHY AND COLOR DOPPLER REPORT

#### OBSERVATION:

- NORMAL LV SIZE WITH NORMAL SYSTOLIC FUNCTION, LVEF 60%
- NO LVH, LV DIASTOLIC DYSFUNCTION+
- NO REGIONAL WALL MOTION ABNORMALITY AT REST
- MITRAL VALVE: NORMAL
  - NO MR, NO MS
- AORTIC VALVE: NORMAL
  - NO AS, NO AR
- NO TR, NO PAH
- NORMAL LA, RA, RV, IVC WITH GOOD RV FUNCTIONS
- INTACT IAS/IVS
- NO INTRA-CARDIAC CLOT/VEGETATION
- PERICARDIUM NORMAL

AO= 30 mm LA=35 mm IVS=11/16 mm LVPW=11/16 mm LVID= 48/30 mm

#### FINAL IMPRESSION: LV DIASTOLIC DYSFUNCTION

NORMAL LV AND RV SYSTOLIC FUNCTIONS

DR. NIRMAL R. KOLTE  
M.D (MED), D.M. (CARDIOLOGY)  
CONSULTANT CARDIOLOGIST

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