



Lab Ref. No. : 234030364	C. NO: 6	Centre Name : SDA Diagnostics
Name : Mr. PRATAP SINGH		Collection Time : 23-Mar-2024 9:39AM
Age/ Gender : 53Y / Male		Receiving Time : 23-Mar-2024 9:39AM
Referred By : Dr. SELF		Reporting Time : 23-Mar-2024 10:56AM
Sample By :		

Test Name	Results	Units	Biological Ref-Interval
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### HAEMATOLOGY

#### COMPLETE BLOOD COUNT

HAEMOGLOBIN (Colorimetry)	15.10	g/dl	12-16.5
TOTAL LEUCOCYTE COUNT (Electric Impedence)	6100.00	/Cum m	4000-11000
DIFFERENTIAL LEUCOCYTE COUNT (Microscopy)			
Neutrophils	50.00	%	44-68
Lymphocytes	<b>45.00</b>	%	25- 44
Eosinophils	2.00	%	0.0- 4.0
Monocytes	3.00	%	0.0-7.0
Basophils	0.00	%	0.0-1.0
Immature Cells	00	%	
<b>Absolute Count</b>			
Neutrophils Count (calculated)	3050.00	/cumm	2000-7000
Lymphocytes Count (calculated)	2745.00	/cumm	1000-3000
Eosinophils Count (calculated)	122.00	/cumm	40-440
Monocytes Count (calculated)	<b>183.00</b>	/cumm	200-1000
Basophils Count (calculated)	0.00	/cumm	0-30
TOTAL R.B.C. COUNT (Electric Impedence)	4.90	10 <sup>6</sup> /uL	3.50-5.50
Haematocrit Value (P.C.V.) (Calculated)	44.00	%	37.0-54.0
MCV (Calculated)	90.00	fL	76-98
MCH	30.90	pg	27-32



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(Calculated)			
MCHC	34.40	g/dl	31-35
(Calculated)			
RDW-CV	<b>14.80</b>	%	11.5 - 14.5
(Calculated)			
Platelet Count	155	Thousand/cumm	150-450
(Electric Impedence)			
MPV	<b>9.80</b>	fL	11.5-14.5
(Calculated)			
PDW	<b>19.90</b>	fL	9.0-17.0
(Calculated)			
E.S.R	12.00	mm	00-20
(Wintrobe method)			
Peripheral Smear	..		

#### BLOOD GROUP

Blood Group O  
Rh Status POSITIVE

<b>GLYCATED HAEMOGLOBIN (HbA1c)</b>	5.70	%	4.5-6.0
ESTIMATED AVERAGE GLUCOSE	116.89	mg/dl	

#### EXPECTED RESULTS :

Non diabetic patients & Stabilized diabetics	: 4.5 % to 6.0 %
Good Control of diabetes	: 6.1 % to 7.0 %
Fair Control of diabetes	: 7.1 % to 8.0 %
Poor Control of diabetes	: 8 % and above

The glycosylated hemoglobin assay has been validated as a reliable indicator of mean blood glucose levels for a period of 8-12 week period prior to HBA1C determination. ADA recommends the testing twice a year in patients with stable blood glucose, and quarterly, if treatment changes, or if blood glucose levels are unstable.



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Test Name	Results	Units	Biological Ref-Interval
<b>BIOCHEMISTRY</b>			
<b>BLOOD GLUCOSE FASTING</b> (GOD/POD method)	105.00	mg/dl	70 - 110
<b>BLOOD GLUCOSE P.P.</b> (GOD/POD method) After 2.0 hrs of meal	128.00	mg/dl	70-140



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Test Name	Results	Units	Biological Ref-Interval
<b>LIVER PROFILE</b>			
<b>SERUM BILIRUBIN</b>			
TOTAL (Diazo)	0.47	mg/dl	0.30-1.20
DIRECT (Diazo)	0.19	mg/dl	0.00-0.20
INDIRECT (Calculated)	0.28	mg/dl	0.20-1.00
S.G.P.T. (IFCC method)	38.00	U/L	0-45
S.G.O.T. (IFCC method)	32.00	U/L	0-45
SERUM ALKALINE PHOSPHATASE (4-nitrophenylphosphate to 2-amino-2-methyl-1propan	81.00	IU/L.	35-145
<b>SERUM PROTEINS</b>			
TOTAL PROTEINS (Biuret)	6.20	Gm/dL.	6.0-8.0
ALBUMIN (Bromocresol green Dye)	3.80	Gm/dL.	3.5-5.2
GLOBULIN (Calculated)	<b>2.40</b>	Gm/dL.	2.5-3.5
A : G RATIO (Calculated)	1.58		1.5-2.5

**LIVER FUNCTION TESTS CHECK THE LEVEL OF CERTAIN ENZYMES AND PROTEINS IN BLOOD**

Levels that are higher or lower than normal can indicate liver problems. Some common liver function tests include :

Alanine transaminase (ALT). ALT is an enzyme found in the liver and When the liver is damaged, ALT is released into the bloodstream and levels increase.

Aspartate transaminase (AST). AST is an enzyme that helps metabolize alanine,an amino acid.

AST is normally present in blood at low levels. An increase in AST levels may indicate liver damage or disease or muscle damage.

Alkaline phosphatase (ALP). ALP is an enzyme in the liver, bile ducts and bone.



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<b>RENAL PROFILE</b>			
BLOOD UREA (Urease Glutamate dehydrogenase)	34.0	mg/dl	10-50
SERUM CREATININE (Jaffe`s)	1.00	mg/dL.	0.6-1.2
SERUM URIC ACID (Urease method)	5.7	mg/dL.	3.5-7.5
SERUM SODIUM (Na) (ISE Direct)	139.0	mmol/l	135 - 155
SERUM POTASSIUM (K) (ISE Direct)	4.30	mmol/l	3.5 - 5.5
SERUM CALCIUM (Arsenazo)	<b>8.2</b>	mg/dl	8.5-10.1
<b>SERUM PROTEIN</b>			
TOTAL PROTEINS (Biuret)	6.20	Gm/dL.	6.0-8.0
SERUM ALBUMIN (Bromocresol green Dye)	3.80	Gm/dL.	3.5-5.2
GLOBULIN (Calculated)	<b>2.40</b>	Gm/dL.	2.5-3.5
A : G RATIO (Calculated)	1.58	Gm/dL.	1.5-2.5

**INTERPRETATION:**

Urea is the end product of protein metabolism. It reflects on functioning of the kidney in the body. Creatinine is the end product of creatine metabolism. It is a measure of renal function and elevated levels are observed in patients typically with 50% or greater impairment of renal function. Sodium is critical in maintaining water & osmotic equilibrium in extracellular fluids. Disturbances in acid base and water balance are typically reflected in the sodium concentrations. Potassium is an essential element involved in critical cell functions. Potassium levels are influenced by electrolyte intake, excretion and other means of elimination, exercise, hydration and medications. Calcium imbalance may cause a spectrum of disease. High concentrations are seen in Hyperparathyroidism, Malignancy & Sarcoidosis. Low levels may be due to protein deficiency, renal insufficiency and Hypoparathyroidism. Repeat measurement is recommended if the values are outside the reference range.



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Test Name	Results	Units	Biological Ref-Interval
<b>LIPID PROFILE</b>			
SERUM CHOLESTEROL (CHOD - PAP)	<b>216.0</b>	mg/dl	125-200
SERUM TRIGLYCERIDE (GPO-PAP)	104.0	mg/dl	50-150
HDL CHOLESTEROL (Direct Method)	42.0	mg/dl	30-80
VLDL CHOLESTEROL (Calculated)	20.8	mg/dl	5-35
LDL CHOLESTEROL (Calculated)	<b>153.2</b>	mg/dL.	70-130
LDL/HDL RATIO (Calculated)	3.6		0.0-4.9
CHOL/HDL CHOLESTROL RATIO (Calculated)	<b>5.1</b>		1.5-3.0

#### INTERPRETATION

TRIGLYCERIDE level > 250mg/dL is associated with an approximately 2-fold greater risk of coronary vascular disease. Elevation of triglycerides can be seen with obesity, medication, fast less than 12 hrs., alcohol intake, diabetes melitus, and pancreatitis.

CHOLESTEROL, its fractions and triglycerides are the important plasma lipids in defining cardiovascular risk factors and in the management of cardiovascular disease. Highest acceptable and optimum values of cholesterol values of cholesterol vary with age. Values above 220 mgm/dl are associated with increased risk of CHD regardless of HDL & LDL values.

HDL-CHOLESTEROL level <35 mg/dL is associated with an increased risk of coronary vascular disease even in the face of desirable levels of cholesterol and LDL - cholesterol.

LDL - CHOLESTEROL & TOTAL CHOLESTEROL levels can be strikingly altered by thyroid, renal and liver disease as well as hereditary factors.

Based on total cholesterol, LDL- cholesterol, and total cholesterol/HDL - cholesterol ratio, patients may be divided into the three risk categories.



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Test Name	Results	Units	Biological Ref-Interval
<b>HORMONE</b>			
<b>PSA</b> (FIA)	1.20	ng/ml	< 4.00

**Prostatic Specific Antigen (P.S.A)**

NORMAL RANGE : 0 - 4

BORDER LINE : 4 - 10

**Interpretation(s)**

Prostate specific antigen (PSA) is prostate tissue specific, expressed by both normal and neoplastic prostate tissue. PSA total is the collective measurement of its three forms in serum, two forms are complexed to protease inhibitors- alpha 2 macroglobulin and alpha 2 anti-chymotrypsin and third form is not complexed to a protease inhibitor, hence termed free PSA.

TPSA =Complex PSA+FPSA.

**Use:**

Monitoring patients with history of Prostate cancer as an early indicator of recurrence and response to treatment.

Prostate cancer screening: Patients with PSA levels >10 ng/mL have >50% probability of prostate cancer.

**Increased in:**

**Prostate diseases:** Cancer, Prostatitis, benign prostatic hyperplasia, prostate ischemia, acute urinary retention.

Manipulations such as Prostatic massage, cystoscopy, needle biopsy, Transurethral resection, digital rectal examination, indwelling catheter, vigorous bicycle exercise. Physiological fluctuations

**Decreased in:**

Castration, Antiandrogen drugs, Radiation therapy, Prostatectomy



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Test Name	Results	Units	Biological Ref-Interval
<b>THYROID PROFILE</b>			
Triiodothyronine (T3) (FIA)	0.92	ng/dl	0.52-1.85
Thyroxine (T4) (FIA)	9.37	ug/dl	4.8-11.6
THYROID STIMULATING HORMONE (TSH) (FIA)	2.18	mIU/L	0.50-5.50

**Interpretation Note:**

Thyroid Stimulating Hormone (TSH) is a highly effective screening assay for thyroid disorders. In patients with an intact pituitary-thyroid axis, TSH provides a physiologic indicator of the functional level of thyroid hormone activity. Increased TSH indicates inadequate thyroid hormone, and suppressed s-TSH indicates excess thyroid hormone. Transient s-TSH abnormalities may be found in seriously ill, hospitalized patients, so this is not the ideal setting to assess thyroid function. However, even in these patients, s-TSH works better than total thyroxine (an alternative screening test). When the s-TSH result is abnormal, appropriate follow-up tests T4 & free T3 levels should be performed. If TSH is between 5.0 to 10.0 & free T4 & free T3 level are normal then it is considered as subclinical hypothyroidism which should be followed up after 4 weeks & If TSH is > 10 & free T4 & free T3 level are normal then it is considered as overt hypothyroidism.

Serum triiodothyronine (T3) levels often are depressed in sick and hospitalized patients, caused in part by the biochemical shift to the production of reverse T3. Therefore, T3 generally is not a reliable predictor of hypothyroidism. However, in a small subset of hyperthyroid patients, hyperthyroidism may be caused by overproduction of T3 (T3 toxicosis). To help diagnose and monitor this subgroup, T3 is measured on all specimens with suppressed s-TSH and normal FT4 concentrations.

Normal ranges of TSH & thyroid hormones vary according to trimester in pregnancy.

**TSH ref range in Pregnancy      Reference range (microIU/ml)**

First trimester	0.24 - 2.00
Second trimester	0.43-2.2
Third trimester	0.8-2.5



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### CLINICAL PATHOLOGY

#### URINE EXAMINATION REPORT

##### PHYSICAL EXAMINATION

VOLUME (visual)	10	ml	
COLOUR (visual)	PALE YELLOW		
APPEARANCE (visual)	CLEAR		
pH	6.50		4.6 - 8.0
SPECIFIC GRAVITY (pKa Change)	1.010		1.010-1.030

##### BIOCHEMICAL EXAMINATION

UROBILINOGEN (Erichs)	NIL		NIL
BILIRUBIN (Azo-coupling reaction)	NEGATIVE		NEGATIVE
NITRITE	NEGATIVE		NEGATIVE
SUGAR (Glucose Oxidase Peroxidase)	NIL		Nil
ALBUMIN (Protein-Error-of-Indicator))	NIL		Nil
PHOSPHATE	NIL		Nil

##### MICROSCOPIC EXAMINATION

(Microscopy)			
RED BLOOD CELLS	NIL	/H.P.F.	0-2
PUS CELLS	1-2	/H.P.F.	0-5
EPITHELIAL CELLS	2-3	/H.P.F.	0-5
CRYSTALS	NIL	/H.P.F.	NIL
CASTS	NIL	/L.P.F.	
OTHER			



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Poatap Singh. 53y/M.

BMI - 26.1

Weight - 78kg

Height - 173cm

BP - 125/80 mmHg

DOB. - 12/7/1970

Yash

Dr. SONAL DHINGRA  
M.B.B.S., M.D.

ID: 87 23-03-2024 09:59:23 AM

0.67~100Hz AC50 25mm/s 10mm/mV 73 V1.0 SEMIP V1.7

ECG CARDIOPRINT



ID: 87  
Male  
53Years  
cm

kg  
mmHg

Diagnosis Information:  
Sinus Rhythm  
\*\*\*Normal ECG\*\*\*

HR	68	bpm
P	106	ms
PR	147	ms
QRS	78	ms
QT/QTc	393/420	ms
P/ORS/T	32/54/44	°
RVS/SV1	0.937/0.597	mV

Report Confirmed by:

Dr. SOHAIL DHINGRA  
M.D. MBBS  
BORGAL DHINGRA



# Meenakshi Diagnostics

73-C, Garh Road, Near Hotel Harmony Inn, Meerut-250002 (U.P.)

Ph. : 0121-2766666, 9458802222, 9458803333, 9458804444, 9458806666

Centre equipped with M.R.I. with upgraded software of 3T Platform, 500 Slice VHS C.T. Scan,  
Digital X-Ray, Mammography, O.P.G., 4D / 5D Ultrasound & Colour Doppler, 2-D Echocardiography

Pt. Name	Mr. Pratap Singh	Age/Sex	53 Yrs/M
Ref. By	C/o S. D. A Diagnostics	Date:	23.03.2024

## ECHOCARDIOGRAPHY REPORT

### MEASUREMENTS:

DIMENSIONS		NORMAL		NORMAL
AO (ed)	2.4 cm	(2.1 – 3.7 cm)	IVS (ed)	1.0 cm (0.6 – 1.2 cm)
LA (es)	2.6 cm	(2.1 – 3.7 cm)	LVPW (ed)	1.0 cm (0.6 – 1.2 cm)
RVID (ed)	2.0 cm	(1.1 – 2.3 cm)	EF	60% (62% – 85%)
LVID (ed)	4.9 cm	(3.6 – 5.2 cm)	FS	30% (28% – 42%)

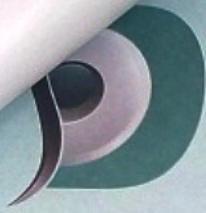
### MORPHOLOGICAL DATA:

Mitral	Normal	LA	Normal
Aortic Valve	Normal	RA	Normal
Pulmonary Valve	Normal	IAS	Intact
Tricuspid Valve	Normal	IVS	Intact
LV	Normal	AO	Normal
RV	Normal	Pericardium	Normal

Contd...2

Note : All congenital anomalies may not be diagnosed in routine USG. The USG findings should always be considered in correlation with clinical and other investigations findings to reach the final diagnosis. Kindly intimate us for any typing mistakes and return the report for correction within 7 days. **Not valid for medico-legal purpose.**

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Pt. Name	Mr. Pratap Singh	Age/Sex	53 Yrs/M
Ref. By	C/o S. D. A Diagnostics	Date:	23.03.2024

::2::

## 2-D ECHOCARDIOGRAPHY FINDINGS:

LV normal in size with normal LV systolic function. No regional wall motion abnormality. RV normal in size with adequate contractions. LA and RA are normal. All cardiac valves structurally normal. Pericardium normal. No intra-cardiac mass. Estimated LV ejection fraction is approximately 60%.

## COLOR FLOW MAPPING:

Normal.

## DOPPLER STUDIES:

MVIS E > A

Peak systolic velocity across aortic valve = 1.0m/sec.

Peak systolic velocity across pulmonary valve = 0.9m/sec.

## IMPRESSION:

- > NO RWMA
- > Adequate LV systolic function. LVEF = 60%.

Dr. Sanjeev Kumar  
MD, Dip. Card, FCCS

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Pt. Name	Mr. Pratap Singh	Age/Sex	53 Yrs/M	Film
Ref. By	SDA diagnostic credit Hospital	Date:	23.03.2024	02

Patient identity can't be verified

## USG WHOLE ABDOMEN

**Liver:** is normal in size (13.1 cm) shows mildly increased parenchymal echogenicity. No focal mass lesion is seen. IHBRs are normal. Liver margins are smooth and regular.

**Gall Bladder:** is well distended. Walls are normal. No calculus/focal mass is seen.

**CBD** is normal in calibre measuring approx 3.3 mm.

**Portal vein** is normal in calibre measuring approx 9.8 mm.

**Pancreas:** is normal in size and echotexture. No peripancreatic collection is seen. Pancreatic duct is not dilated.

**Spleen:** is normal in size measuring ~9.1 cm with normal echotexture.

**Right kidney:** measures ~ 9.7 x 3.5 cm. It is normal in size, shape, position and contour. Cortical echotexture is uniform. No calculus/hydronephrosis is seen. Corticomedullary differentiation is maintained. Renal margins are regular. Renal cortical thickness is normal.

**Left kidney:** measures ~10.3x5.4 cm. It is normal in size, shape, position and contour. Cortical echotexture is uniform. No calculus/hydronephrosis is seen. Corticomedullary differentiation is maintained. Renal margins are regular. Renal cortical thickness is normal.


**Urinary bladder:** is well distended. Walls are normal. No calculus/focal mass is seen.

**Prostate** is normal in size measures ~ 3.3x3.2x2.8 cm (vol. ~16 cc) with normal echotexture.

### IMPRESSION – USG findings are suggestive of :-

- Mild grade fatty infiltration of liver. Adv- Liver function test.

Please correlate clinically

  
Dr. Renu Diwakar  
MBBS, KGMU  
(Sonologist)

Dr. Sandeep Sirohi  
DMRD

Dr. Mohd. Saalim  
MD

Dr. Sandeep Singh Soam  
MD

Dr. Renu Diwakar  
MBBS

Dr. Mohd. Qasim  
DMRD  
seem.a

Note : All congenital anomalies may not be diagnosed in routine USG. The USG findings should always be considered in correlation with clinical and other investigations findings to reach the final diagnosis. Kindly intimate us for any typing mistakes and return the report for correction within 7 days. **Not valid for medico-legal purpose.**



PT. NAME	MR. PRATAP SINGH	AGE/SEX	53Y/M	FILM
REF. BY	DR. SELF	DATE:	23/03/2024	01

### X-RAY CHEST PA VIEW

- Both CP angles are normal.
- Trachea is normal in position.
- Cardiac size is within normal limits.
- Both hila are normal.
- Heart, aorta & mediastinum are normal
- Bony thoracic cage appears normal.

**NORMAL STUDY**

*A Quality Controlled Pathology Lab*

**DR. MOHIT SHARMA**

(MBBS)(DMRD) Chief consultant

Interventional Radiologist

**Dr. Shivangi Singhal**  
M.D. Pathology

**Dr. Sonal Dhingra Anand**  
M.D. Pathology

- ◆ Test Values may vary with different lab standards, methods, kits used and other physiological & biological factors.
- ◆ The clinico pathological lab tests involve Man-Machine-Computer interface with slight chances of inadvertent discrepancy and should be immediately discussed & alleviated.
- ◆ Report purports for patients care and not for medicalegal documents.

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