

LABORATORY INVESTIGATION REPORT

Patient Name	: Mr. Buddhadeb Bhattacharjee	Age/Sex	: 45 Year(s)/Male
UHID	: NMHK.2200479	Order Date	: 10/01/2022 10:41
Episode	: OP	Mobile No	: 8582982835
Ref. Doctor	: NMH	Facility	: NARAYAN MEMORIAL HOSPITAL
Address	: 53/3 NAFAR CHANDRA DAS STREET, BESIDE ORIENT DAY SCHOOL , BEHALA ,Kolkata,West Bengal ,700034		

Biochemistry

INVESTIGATION	RESULTS	UNITS	BIOLOGICAL REF RANGE
Sample No : 07H0054083	Collection Date : 10/01/22 10:58	Ack Date :	Report Date : 10/01/22 17:28

KIDNEY FUNCTION TEST

SERUM CREATININE

SAMPLE : SERUM

SERUM CREATININE 0.9 mg/dl 0.7 - 1.2
Jaffe Gen2 Compensated

BLOOD UREA NITROGEN

BLOOD UREA NITROGEN 12 mg/dl 6 - 20
Calculated

URIC ACID

SAMPLE : SERUM

URIC ACID 5.5 mg/dl 3.4 - 7
Enzymatic Colorimetric

LIVER FUNCTION TEST (LFT)

SAMPLE : SERUM

TOTAL BILIRUBIN 0.5 ▲ mg/dl <1.1
Diazo Method

DIRECT BILIRUBIN 0.2 mg/dl 0 - 0.2
Diazo Method

INDIRECT BILIRUBIN 0.3 mg/dl 0.2 - 0.9
Calculated

SGPT (ALT) 15 U/L 0 - 34
IFCC Without Pyridoxal Phosphate

SGOT (AST) 17 U/L 0 - 31
IFCC Without Pyridoxal Phosphate

ALKALINE PHOSPHATASE 62 U/L 53 - 128
IFCC

TOTAL PROTEIN 7.2 g/dl 6.4 - 8.2
Biuret

ALBUMIN 5.2 gm/dl 3.5 - 5.2
Bromocresol Green

GLOBULIN 2.0 g/dl 2 - 3.5
Calculated

ALBUMIN:GLOBULIN 2.6 ▲ - 1.1 - 2.5
Calculated

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GGT	30	U/L	8 - 61
<i>Enzymatic colorimetric assay</i>			

LIPID PROFILE

SAMPLE : SERUM

TOTAL CHOLESTEROL	166	mg/dl	Desirable <200 Borderline 200-239 High >=240
<i>CHOD-PAP</i>			
HDL CHOLESTEROL	46	mg/dl	40 - 60
<i>Homogenous Enzymatic Colorimetric</i>			
LDL CHOLESTEROL	97	mg/dl	Optimal < 100 Borderline 130
<i>Homogenous Enzymatic Colorimetric</i>			
VLDL	27.00	mg/dl	0 - 30
<i>CALCULATED</i>			
CHOLESTEROL-HDL RATIO	3.61	-	
LDL-HDL RATIO	2.11	-	
TRIGLYCERIDES	135	mg/dl	Desirable <150 Borderline 150 - 200 High >200
<i>Enzymatic Colorimetric</i>			

Sample No : 07H0054083B Collection Date : 10/01/22 10:58 Ack Date : Report Date : 10/01/22 20:00

BLOOD SUGAR(PP)

SAMPLE : PLASMA

BLOOD SUGAR PP	94	mg/dl	70.00 - 140.00
<i>Hexokinase</i>			

Sample No : 07H0054094B Collection Date : 10/01/22 11:42 Ack Date : Report Date : 10/01/22 17:28

BLOOD SUGAR(F)

SAMPLE : PLASMA

BLOOD SUGAR FASTING	80	mg/dl	70 - 109
<i>Hexokinase</i>			

End of Report



Dr.S. Chatterjee
MD, MBBS, FAACC
(CONSULTANT BIOCHEMIST)

Checked By

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Immunoassay

INVESTIGATION	RESULTS	UNITS	BIOLOGICAL REF RANGE
Sample No: 07H0054083	Collection Date: 10/01/22 10:58	Ack Date:	Report Date: 11/01/22 11:06

THYROID FUNCTION TEST

SAMPLE : SERUM

T3 ECLIA	0.80	ng/ml	0.6 - 1.8
T4 ECLIA	5.67	ug/dL	5.4 - 11.7
TSH ECLIA	0.60	uIU/ml	Adult Male - 0.27-5.50 Adult Female - 0.27-5.50 Newborns - <25 Upto 12 years - 0.3-5

Interpretations

- For diagnostic purposes, the result should always be assessed in conjunction with the patient's medical history, clinical examinations and other findings.
- The assay is unaffected by icterus (Bilirubin < 701 µmol/L or < 41 mg/dL), hemolysis (Hb < 0.621 mmol/L or < 1 g/dL), lipemia (Intralipid < 1500 mg/dL), biotin (< 102 nmol/L or < 25 ng/ml), IgG < 2 g/dL and IgM < 0.5 g/dL)
- There is no high dose hook effect at TSH concentrations upto 1000 µmol/ml.
- TSH values may be transiently altered because of non thyroidal illness like several infections, liver disease, renal and heart failure, several burns, trauma and surgery etc. Drugs that decrease TSH values e.g. L-dopa, Glucocorticoid drugs that increase TSH values e.g. Iodine, Lithium, Amiodarone.
- The assay is unaffected by icterus (bilirubin < 633 µmol/L or < 37 mg/dl), hemolysis (Hb < 1.4 mmol/L or < 2.3 g/dl), lipemia (triglycerides < 28.5 mmol/L or 2500 mg/dl) and biotin (< 409 nmol or < 100 ng/ml).
- The assay is unaffected by icterus (bilirubin < 599 µmol/L or < 35 mg/dl), hemolysis (Hb < 1.2 mmol/L or < 2.0 g/dl), lipemia (Intralipid < 1800 mg/dl) and biotin (< 123 nmol or < 30 ng/ml).

End of Report



Dr. MAINAK CHAKRABORTY
MBBS, MD(PATH)
 (CONSULTANT PATHOLOGIST)

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Hematology

INVESTIGATION	RESULTS	UNITS	BIOLOGICAL REF RANGE
Sample No : 07H0054083	Collection Date : 10/01/22 10:58	Ack Date :	Report Date : 11/01/22 11:04

COMPLETE HAEMOGRAM (CBC)

SAMPLE : EDTA BLOOD

HAEMOGLOBIN (HB)	13.9	gm/dl	13 - 17
<i>Colorimetric method (Cyn Meth)</i>			
RBC COUNT	4.7	x10 ⁶ /ul	4.5 - 5.5
<i>Electrical Impedance Method</i>			
TOTAL WBC COUNT	7.2 ▼	10 ³ /cmm	4000 - 10000
<i>Electrical Impedance Method</i>			
PLATELET COUNT	310 ▼	10 ³ /cmm	150000 - 410000
<i>Electrical Impedance Method</i>			
PCV	39 ▼	%	40 - 50
<i>RBC pulse ht. detection method</i>			
MCV	84	fL	83 - 101
<i>calculated</i>			
MCH	30	pg	27 - 32
<i>Calculated</i>			
MCHC	35 ▲	gm/dl	31.5 - 34.5
<i>Calculated</i>			
ESR	05	%	0 - 10
<i>Modified Westergren Method</i>			

DIFFERENTIAL COUNT

NEUTROPHILS	65	%	40 - 80
<i>Microscopy</i>			
LYMPHOCYTES	30	%	20 - 40
<i>Microscopy</i>			
MONOCYTES	03	%	2 - 10
<i>Microscopy</i>			
EOSINOPHILS	02	%	1 - 6
<i>Microscopy</i>			
BASOPHILS	00 ▼	%	1 - 6
<i>Microscopy</i>			

PERIPHERAL BLOOD SMEAR

RBC	Normocytic normochromic.
WBC	Within normal limits
PLATELET	Adequate

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End of Report



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Immunology

INVESTIGATION	RESULTS	UNITS	BIOLOGICAL REF RANGE
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BLOOD GROUPING & Rh TYPING

SAMPLE : EDTA BLOOD

BLOOD GROUP

Agglutination forward & Reverse

RH TYPE

'O'

POSITIVE

End of Report



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Clinical Pathology

INVESTIGATION : **RESULTS** : **UNITS** : **BIOLOGICAL REF RANGE**
 Sample No : 07H0054093 Collection Date : 10/01/22 11:41 Ack Date : Report Date : 11/01/22 11:06

URINE FOR R/E

SAMPLE : URINE

PHYSICAL EXAMINATION

VOLUME	70	ml
COLOUR	PALE STRAW	
APPEARANCE	SLIGHTLY HAZY	1.010 - 1.030
SPECIFIC GRAVITY	1.025	
REACTION(pH)	ACIDIC (6.0)	

CHEMICAL EXAMINATION

SUGAR	ABSENT	ABSENT
ALBUMIN.	ABSENT	ABSENT
BLOOD	ABSENT	ABSENT
KETONE	ABSENT	ABSENT
BILE SALT	ABSENT	ABSENT
BILE PIGMENTS	ABSENT	ABSENT

MICROSCOPIC EXAMINATION

PUS CELLS	2-3/HPF	<5/HPF
EPITHELIAL CELLS	1-2/HPF	<20/HPF
RBC	NIL	ABSENT
CAST	ABSENT	ABSENT
CRYSTAL	ABSENT	

Please correlate clinically.

End of Report



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Biochemistry

INVESTIGATION	RESULTS	UNITS	BIOLOGICAL REF RANGE
Sample No : 07H0054083A	Collection Date : 10/01/22 10:58	Ack Date :	Report Date : 10/01/22 20:00

GLYCOSYLATED HAEMOGLOBIN (HBA1C)

SAMPLE : EDTA BLOOD

HBA1C	5.8	%	Non-diabetic : 4-6
By HPLC			

1. HbA1c is used for monitoring diabetic control. It reflects the estimated average glucose.
 2. HbA1c has been endorsed by clinical group & American Diabetes Association guidelines 2017, for diagnosis of Diabetes using a cut-off point of 6.5%.
 3. Trends in HbA1c are a better indicator of diabetic control than a solitary test.
 4. Low HbA1c in a non-diabetic individual are often associated with systemic inflammatory diseases, chronic anaemia (Specially in Severe iron deficiency anaemia and hemolytic), chronic renal failure and liver disease. Clinical correlation suggested.
 5. Interference of Haemoglobinopathies in HbA1c estimation.
 - a) For HbF > 25%, an alternate platform (fructosamine) is recommended for testing of HbA1c.
 - b) Homozygous hemoglobinopathy is detected, fructosamine is recommended for monitoring diabetic status.
- Note: Hemoglobin electrophoresis (HPLC method) is recommended for detecting hemoglobinopathy.
- c) Heterozygous state detected (D10/turbo is corrected for HbS and HbC trait).
 6. For known diabetic patients, following values can be considered as a tool for monitoring the glycemic control:
 - Excellent control:- 6 - 7%,
 - Fair to good control:- 7 - 8%,
 - Unsatisfactory control:- 8 - 10%
 - Poor control >10%

End of Report



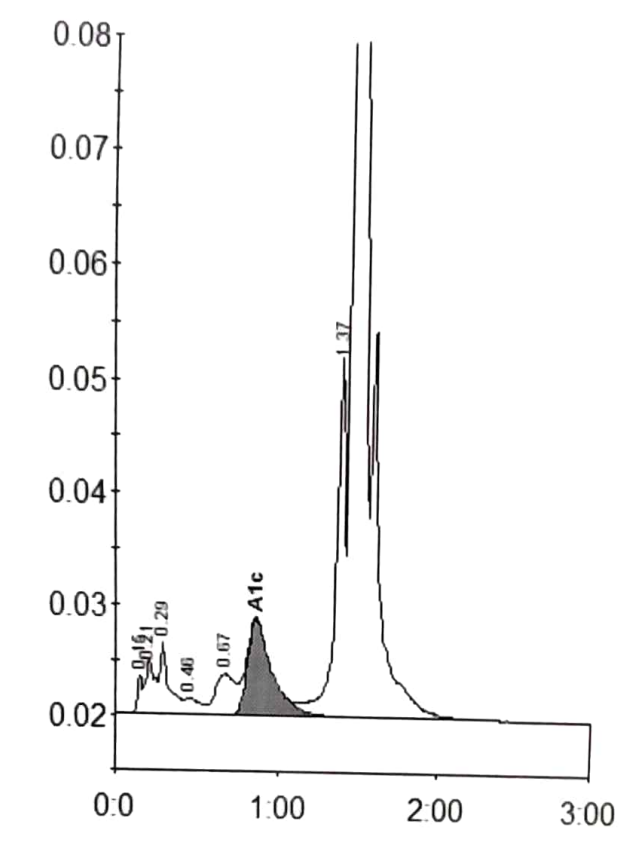
Dr.S. Chatterjee
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(CONSULTANT BIOCHEMIST)

Checked By

...Rad
 10-10
 S/N: #DJ0A467747

DATE: 10/01/2022
 TIME: 16:52
 Software version: 4.30-2
 07H0054083A
 10/01/2022 16:51
 Method: HbA1c
 Rack position: 10

Dr Buddhadeb Bhattacharjee
 R/NMJK 2200479 45y/ M
 07H0054083A
 DIA Wh 10-01 10:58



Peak table - ID: 07H0054083A

Peak	R.time	Height	Area	Area %
Unknown	0.15	3426	6969	0.3
A1a	0.21	5036	19228	0.9
A1b	0.29	6818	27140	1.2
F	0.46	1577	10684	0.5
LA1c/CHb-1	0.67	3799	31827	1.5
A1c	0.86	8820	93777	5.8
P3	1.37	32614	130714	6.0
A0	1.44	685684	1873261	85.4
Total Area:		2193600		

Concentration:	%	mmol/mol
A1c	5.8	40

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2D ECHOCARDIOGRAPHY WITH M-MODE

MEASUREMENTS

2D and M-Mode :

IVS (d)	11 mm	Aorta (at sinuses)	29 mm
LVID (d)	46 mm	LA diameter	36 mm
LVPW (d)	11 mm	RVID (d) - basal	16 mm
LVID (s)	26 mm	TAPSE	25 mm
LVEF	62%		

Estimated PASP = 22 mmHg

FINDINGS

Left Ventricle :

Cavity size : Normal.
Wall thickness : Normal.
Segmental wall motion : No abnormality found.
Global systolic function : Normal (EF = 62%)
Diastolic function : Grade I diastolic dysfunction.

Left Atrium :Normal sized; no clot in body of appendage.

Right Ventricle and Right Atrium :Normal sized; normal RV systolic function.

Mitral Valve :Normal leaflets, good excursion, normal subvalvular apparatus.
Trivial regurgitation / No MS.

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Aortic valve :Structurally normal, trileaflet, normal motion, no regurgitation.

Pulmonary Valve :Normal structure, adequate opening.

Tricuspid Valve :Normal structure, normal excursion. Trivial TR. TR gradient = 17 mmHg.

Interartial and Interventricular Septum :No breech could be seen.

Aorta :Normal sized root and proximal aorta.

Pulmonary Artery :Normal, no pulmonary arterial hypertension.

Pericardium :Normal, no effusion.

Inferior Vena Cava :IVC normal diameter, > 50% respiratory variation.

Others :No thrombus, mass, vegetation seen.

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IMPRESSION:

Status of Patient :

- * No regional wall motion abnormality at rest.
- * Good LV systolic function (EF = 62%).
- * Good RV systolic function (TAPSE = 25 mm).
- * Normal valve morphology.
- * Grade I LV diastolic dysfunction.
- * No pericardial effusion.
- * No pulmonary arterial hypertension.



Dr.INDIRA BANERJEE,
MD,DNB,MRCPCCH (UK)

Board Certified Comprehensive
Echocardiographer (USA)

DIAGNOSTICS REPORT

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ELECTROCARDIOGRAM REPORT (ECG)

HR : 92 bpm

Rhythm : Sinus

P wave : Normal

PR Interval : 108 msec

QRS axis : Normal (12 Degree)

QRS duration : 84 msec

QRS configuration : Normal

T wave : Non specific changes

ST segment : Non specific changes

QTc : 523 msec

QT : 418 msec

IMPRESSION:

- Sinus rhythm. Normal QRS axis.
 - Non specific ST-T changes.
- Clinical correlation please.



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ELECTROCARDIOGRAM REPORT (ECG)

HR	: 92 bpm
Rhythm	: Sinus
P wave	: Normal
PR Interval	: 108 msec
QRS axis	: Normal (12 Degree)
QRS duration	: 84 msec
QRS configuration	: Normal
T wave	: Non specific changes
ST segment	: Non specific changes
QTc	: 523 msec
QT	: 418 msec

IMPRESSION:

- Sinus rhythm. Normal QRS axis.
 - Non specific ST-T changes.
- Clinical correlation please.



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BUDDHADEB BHATTACHAR

2200479

Male

45 years

CM / kg

HR 92/min

Axis: P 90°

QR5 12°

T -30°

SINUS RHYTHM
RIGHT BUNDLE BRANCH BLOCK

6.02

UNCONFIRMED REPORT

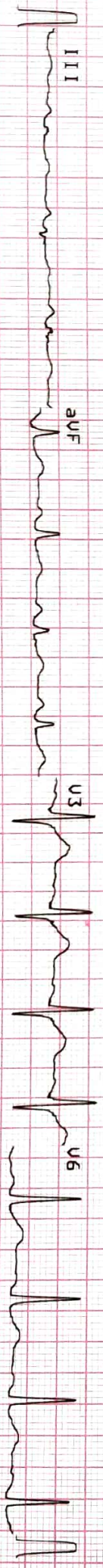
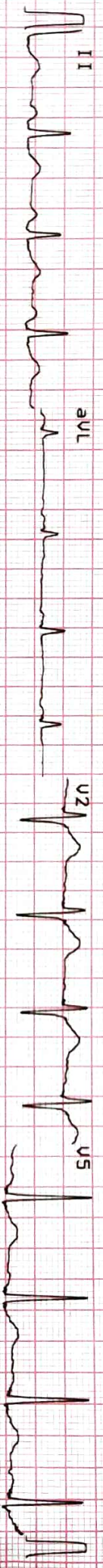
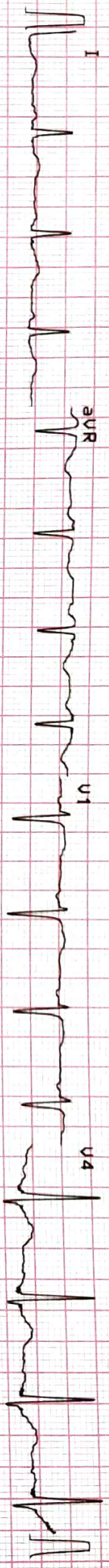
Intervals:

RR	651 ms
P	100 ms
PR	108 ms
QR5	84 ms
QT	418 ms
QTc	523 ms
(Bazett)	

Axis:

P (II)	0.10 mV
S (V1)	-0.93 mV
R (V5)	0.05 mV
Sokol.	0.98 mV

10 mm/mV



10 mm/mV

0.05-25 Hz FS0 SSF SBS 10.01.2022 12:40:08

NARAYAN MEMORIAL HOSPITAL, BEHALA

BI-102pluf 1 25 F

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CHEST X-RAY REPORT OF PA VIEW

Lung fields are clear. No focal parenchymal opacity is seen.


No appreciable pleural thickening / calcification is noted.

Costo-phrenic angles are normal.

Cardiac shadow appears normal.

Bilateral hilar shadows are normal.

No obvious bony abnormality is seen.



**Dr. MADHUSHREE RAY NASKAR ,
MBBS,DMRD**

Consultant Radiologist

RegNo: 57032

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USG REPORT OF WHOLE ABDOMEN (SCREENING)

LIVER : Liver is normal in size. **Parenchymal echogenicity is raised.** Intrahepatic biliary radicles are not dilated. No focal mass lesion is seen.

PORTA :PV : Normal. PV measures 0.9 cm.

CD : Normal . CD measures 0.4 cm.

GALL BLADDER :Gall bladder is normal in size, contour, outline and position. **An echogenic calculus measuring 1.8 cm in diameter is noted in GB neck.** Wall thickness is normal.

PANCREAS :Pancreas is normal in size and parenchymal echogenicity. Pancreatic duct is not dilated.

SPLEEN :Spleen is not enlarged and parenchyma shows normal homogeneous pattern.

KIDNEYS :Both kidneys are normal in size, shape, outline, position and parenchymal echogenicity. Corticomedullary differentiation maintained. No evidence of any calculus/ mass / hydronephrosis is seen. Right kidney measures : 10.6 cm & Left kidney measures : 11.2 cm.

URINARY BLADDER : Urinary bladder is normal in contour, outline and distension. No vesical lesion is seen.

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PROSTATE : Prostate is normal size, outline and echotexture appear normal. No focal lesion is seen. Prostate measures 3.2 cm x 2.9 cm x 2.7 cm. It weight approx 13.6 gm.

PERITONEUM : : No free fluid is noted.

RETROPERITONEUM : IVC and aorta appear normal. No lymphadenopathy is seen.

IMPRESSION : * Mild fatty changes in liver.
* A solitary calculus in GB neck.

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Consultant Radiologist

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