





Lab Add.

Ref Dr.



: Newtown, Kolkata-700156

: Dr.MEDICAL OFFICER

Collection Date: 18/Mar/2023 09:59AM

Lab No. : SRE/18-03-2023/SR7421872

**Patient Name** : ABHASH KUMAR Age : 38 Y 6 M 18 D

Gender : M **Report Date** : 18/Mar/2023 03:07PM

		<u> </u>		E3744-80361
Test Name	Result	Unit	Bio Ref. Interval	Method
SODIUM, BLOOD , GEL SERUM				
SODIUM,BLOOD	137	mEq/L	132 - 146 mEq/L	ISE INDIRECT
SGOT/AST , GEL SERUM				
SGOT/AST	34	U/L	13-40 U/L	Modified IFCC
BILIRUBIN (DIRECT) , GEL SERUM				
BILIRUBIN (DIRECT)	0.10	mg/dL	<0.2 mg/dL	Vanadate oxidation
BILIRUBIN (TOTAL) , GEL SERUM				
BILIRUBIN (TOTAL)	1.00	mg/dL	0.3-1.2 mg/dL	Vanadate oxidation
POTASSIUM, BLOOD , GEL SERUM				
POTASSIUM,BLOOD	4.40	mEq/L	3.5-5.5 mEq/L	ISE INDIRECT
GLUCOSE, FASTING , BLOOD, NAF PLA	ASMA			
GLUCOSE,FASTING	83	mg/dL	Impaired Fasting-100-125 .~Diabetes- >= 126.~Fasting defined as no caloric intake for	
			least 8 hours.	n at

ADA Standards of Medical Care in Diabetes – 2020. Diabetes Care Volume 43, Supplement 1.

CREATININE, BLOOD , GEL SERUM	0.75	mg/dL	0.7-1.3 mg/dL	Jaffe, alkaline picrate, kinetic
URIC ACID, BLOOD , GEL SERUM URIC ACID,BLOOD	6.10	mg/dL	3.5-7.2 mg/dL	Uricase/Peroxidase
*CHLORIDE, BLOOD , . CHLORIDE,BLOOD	99	mEq/L	99-109 mEq/L	ISE INDIRECT
PHOSPHORUS-INORGANIC, BLOOD,	GEL SERUM 3.2	mg/dL	2.4-5.1 mg/dL	Phosphomolybdate/UV

Dr NEEPA CHOWDHURY MBBS MD (Biochemistry) Consultant Biochemist









Lab No. : SR7421872 Name : ABHA	SH KUMAR	Age/	G: 38 Y 6 M 18 D / M	Date: 18-03-2023	
SGPT/ALT , GEL SERUM					
SGPT/ALT	66	U/L	7-40 U/L	Modified IFCC	
UREA,BLOOD	17.1	mg/dL	19-49 mg/dL	Urease with GLDH	
CALCIUM, BLOOD					
CALCIUM,BLOOD	9.40	mg/dL	8.7-10.4 mg/dL	Arsenazo III	
TOTAL PROTEIN [BLOOD] ALB:GLO RATI	<b>O</b> ,.				
TOTAL PROTEIN	8.10	g/dL	5.7-8.2 g/dL	BIURET METHOD	
ALBUMIN	4.9	g/dL	3.2-4.8 g/dL	BCG Dye Binding	
GLOBULIN	3.20	g/dl	1.8-3.2 g/dl	Calculated	
AG Ratio	1.53		1.0 - 2.5	Calculated	
ALKALINE PHOSPHATASE , GEL SERUM					
ALKALINE PHOSPHATASE	122	U/L	46-116 U/L	IFCC standardization	
THYROID PANEL (T3, T4, TSH), GEL SERUM					
T3-TOTAL (TRI IODOTHYRONINE)	1.45	ng/ml	0.60-1.81 ng/ml	CLIA	
T4-TOTAL (THYROXINE)	9.6	μg/dL	3.2-12.6 μg/dL	CLIA	
TSH (THYROID STIMULATING HORMONE)	3.64	μIU/mL	0.55-4.78 μIU/mL	CLIA	

Serum TSH levels exhibit a diurnal variation with the peak occurring during the night and the nadir, which approximates to 50% of the peak value, occurring between 1000 and 1600 hours.[1,2] References:

- 1. Bugalho MJ, Domingues RS, Pinto AC, Garrao A, Catarino AL, Ferreira T, Limbert E and Sobrinho L. Detection of thyroglobulin mRNA transcripts in peripheral blood of *individuals with and without thyroid glands: evidence for thyroglobulin expression by blood cells. Eur J Endocrinol* 2001;145:409-13.
- 2. Bellantone R, Lombardi CP, Bossola M, Ferrante A,Princi P, Boscherini M et al. Validity of thyroglobulin mRNA assay in peripheral blood of postoperative thyroid carcinoma patients in predicting tumor recurrence varies according to the histologic type: results of a prospective study. Cancer 2001;92:2273-9.

## **BIOLOGICAL REFERENCE INTERVAL**: [ONLY FOR PREGNANT MOTHERS]

Trimester specific TSH LEVELS during pregnancy:

FIRST TRIMESTER:  $0.10-3.00~\mu$  IU/mL SECOND TRIMESTER: 0.20 -3.50  $\mu$  IU/mL THIRD TRIMESTER : 0.30 -3.50  $\mu$  IU/mL

#### **References:**

- 1. Erik K. Alexander, Elizabeth N. Pearce, Gregory A. Brent, Rosalind S. Brown, Herbert Chen, Chrysoula Dosiou, William A. Grobman, Peter Laurberg, John H. Lazarus, Susan J. Mandel, Robin P. Peeters, and Scott Sullivan. Thyroid. Mar 2017.315-389. <a href="http://doi.org/10.1089/thy.2016.0457">http://doi.org/10.1089/thy.2016.0457</a>
- 2. Kalra S, Agarwal S, Aggarwal R, Ranabir S. Trimester-specific thyroid-stimulating hormone: An indian perspective. Indian J Endocr Metab 2018;22:1-4.

**Lab No.** : SRE/18-03-2023/SR7421872 Page 2 of 11









Lab No. : SR7421872 Name : ABHASH KUMAR Age/G : 38 Y 6 M 18 D / M Date : 18-03-2023

Harry .

Dr. SUPARBA CHAKRABARTI MBBS, MD(BIOCHEMISTRY) Consultant Biochemist









Dipstick (pseudoperoxidase reaction)

Lab No.: SR7421872 Age/G: 38 Y 6 M 18 D / M Name: ABHASH KUMAR Date: 18-03-2023

ESR (ERYTHROCYTE SEDIMENTATION RATE), EDTA WHOLE BLOOD

0.00 - 20.00 mm/hr Westergren 1stHour

BLOOD GROUP ABO+RH [GEL METHOD], EDTA WHOLE BLOOD

Gel Card ABO

RH **POSITIVE** Gel Card

PALE YELLOW

SLIGHTLY HAZY

#### **TECHNOLOGY USED: GEL METHOD**

#### ADVANTAGES:

COLOUR

**APPEARANCE** 

- Gel card allows simultaneous forward and reverse grouping.
- Card is scanned and record is preserved for future reference.
- Allows identification of Bombay blood group. Daily quality controls are run allowing accurate monitoring.

#### Historical records check not performed.

#### **URINE ROUTINE ALL, ALL, URINE**

#### PHYSICAL EXAMINATION

CHEMICAL EXAMINATION			
рН	7.0	4.6 - 8.0	Dipstick (triple indicator method)
SPECIFIC GRAVITY	1.010	1.005 - 1.030	Dipstick (ion concentration method)
PROTEIN	NOT DETECTED	NOT DETECTED	Dipstick (protein error of pH

PROTEIN NOT DETECTED indicators)/Manual **GLUCOSE** NOT DETECTED NOT DETECTED Dipstick(glucose-oxidase-peroxidase

method)/Manual

KETONES (ACETOACETIC ACID, NOT DETECTED NOT DETECTED Dipstick (Legals test)/Manual

ACETONE) NOT DETECTED **BLOOD** 

NEGATIVE **BILIRUBIN NEGATIVE** Dipstick (azo-diazo reaction)/Manual

NEGATIVE Dipstick (diazonium ion **UROBILINOGEN NEGATIVE** reaction)/Manual NEGATIVE NEGATIVE Dipstick (Griess test) NITRITE

NEGATIVE LEUCOCYTE ESTERASE **NEGATIVE** Dipstick (ester hydrolysis reaction)

## MICROSCOPIC EXAMINATION

LEUKOCYTES (PUS CELLS)	0-1	/hpf	0-5	Microscopy
EPITHELIAL CELLS	0-1	/hpf	0-5	Microscopy
RED BLOOD CELLS	NOT DETECTED	/hpf	0-2	Microscopy
CAST	NOT DETECTED		NOT DETECTED	Microscopy
CRYSTALS	NOT DETECTED		NOT DETECTED	Microscopy
BACTERIA	NOT DETECTED		NOT DETECTED	Microscopy
YEAST	NOT DETECTED		NOT DETECTED	Microscopy

#### Note:

- 1. All urine samples are checked for adequacy and suitability before examination.
- 2. Analysis by urine analyzer of dipstick is based on reflectance photometry principle. Abnormal results of chemical examinations are confirmed by manual methods.
- 3. The first voided morning clean-catch midstream urine sample is the specimen of choice for chemical and microscopic analysis.
- 4. Negative nitrite test does not exclude urinary tract infections.
- 5. Trace proteinuria can be seen in many physiological conditions like exercise, pregnancy, prolonged recumbency etc.
- 6. False positive results for glucose, protein, nitrite, urobilinogen, bilirubin can occur due to use of certain drugs, therapeutic dyes, ascorbic acid, cleaning agents used in urine collection container.
- 7. Discrepancy between results of leukocyte esterase and blood obtained by chemical methods with corresponding pus cell and red blood cell count by microscopy can

Page 4 of 11 Lab No. SRE/18-03-2023/SR7421872

NOT DETECTED









Lab No. : SR7421872 Name : ABHASH KUMAR Age/G : 38 Y 6 M 18 D / M Date : 18-03-2023

occur due to cell lysis.

8. Contamination from perineum and vaginal discharge should be avoided during collection, which may falsely elevate epithelial cell count and show presence of bacteria and/or yeast in the urine.

to Land

Dr Mansi Gulati Consultant Pathologist MBBS, MD, DNB (Pathology)









Dr. PANKTI PATEL MBBS , MD (PATHOLOGY) CONSULTANT PATHOLOGIST

ASH KUMAR		Age/G: 38 Y 6 M 18 D / M	Date : 18-03-2023
OUNT , EDTA WH	OLE BLOOD		
15.7	g/dL	13 - 17	PHOTOMETRIC
5.6	*10^3/µL	4 - 10	DC detection method
5.09	*10^6/µL	4.5 - 5.5	DC detection method
176	*10^3/µL	150 - 450*10^3/µL	DC detection method/Microscopy
60	%	40 - 80 %	Flowcytometry/Microscopy
31	%	20 - 40 %	Flowcytometry/Microscopy
07	%	2 - 10 %	Flowcytometry/Microscopy
02	%	1 - 6 %	Flowcytometry/Microscopy
00	%	0-0.9%	Flowcytometry/Microscopy
46.9	%	40 - 50 %	Calculated
92.2	fl	83 - 101 fl	Calculated
30.8	pg	27 - 32 pg	Calculated
33.4	gm/dl	31.5-34.5 gm/dl	Calculated
15.5	%	11.6-14%	Calculated
35.1	fL	8.3 - 25 fL	Calculated
13.9		7.5 - 11.5 fl	Calculated
			) lefte
			wa.
	15.7 5.6 5.09 176 60 31 07 02 00 46.9 92.2 30.8 33.4 15.5 35.1	COUNT , EDTA WHOLE BLOOD  15.7 g/dL  5.6 *10^3/μL  5.09 *10^6/μL  176 *10^3/μL  60 %  31 %  07 %  02 %  00 %  46.9 %  92.2 fl  30.8 pg  33.4 gm/dl  15.5 %  35.1 fL	30UNT , EDTA WHOLE BLOOD  15.7 g/dL 13 - 17  5.6 *10^3/μL 4 - 10  5.09 *10^6/μL 4.5 - 5.5  176 *10^3/μL 150 - 450*10^3/μL  60 % 40 - 80 %  31 % 20 - 40 %  07 % 2 - 10 %  02 % 1 - 6 %  00 % 0-0.9%  46.9 % 40 - 50 %  92.2 fl 83 - 101 fl  30.8 pg 27 - 32 pg  33.4 gm/dl 31.5-34.5 gm/dl  15.5 % 11.6-14%  35.1 fL 8.3 - 25 fL









Lab No. : SR7421872 Name : ABHASH KUMAR Age/G : 38 Y 6 M 18 D / M Date : 18-03-2023

URIC ACID, URINE, SPOT URINE

URIC ACID, SPOT URINE 12.00 mg/dL 37-92 mg/dL URICASE

**ESTIMATED TWICE** 

PDF Attached

GLYCATED HAEMOGLOBIN (HBA1C), EDTA WHOLE BLOOD

GLYCATED HEMOGLOBIN (HBA1C) 5.1 % \*\*\*FOR BIOLOGICAL

REFERENCE INTERVAL DETAILS , PLEASE REFER TO THE BELOW MENTIONED REMARKS/NOTE WITH ADDITIONAL CLINICAL INFORMATION \*\*\*

HbA1c (IFCC) 33.0 mmol/mol HPLC

Clinical Information and Laboratory clinical interpretation on Biological Reference Interval:

Analyzer used: Bio-Rad-VARIANT TURBO 2.0

Method: HPLC Cation Exchange

#### Recommendations for glycemic targets

Ø Patients should use self-monitoring of blood glucose (SMBG) and HbA1c levels to assess glycemic control.

Ø The timing and frequency of SMBG should be tailored based on patients' individual treatment, needs, and goals.

Ø Patients should undergo HbA1c testing at least twice a year if they are meeting treatment goals and have stable glycemic control.

Ø If a patient changes treatment plans or does not meet his or her glycemic goals, HbA1c testing should be done quarterly.

Ø For most adults who are not pregnant, HbA1c levels should be <7% to help reduce microvascular complications and macrovascular disease. Action suggested >8% as it indicates poor control.

Ø Some patients may benefit from HbA1c goals that are stringent.

Result alterations in the estimation has been established in many circumstances, such as after acute/ chronic blood loss, for example, after surgery, blood transfusions, hemolytic anemia, or high erythrocyte turnover; vitamin B<sub>12</sub>/ folate deficiency, presence of chronic renal or liver disease; after administration of high-dose vitamin E / C; or erythropoietin treatment.

Reference: Glycated hemoglobin monitoring BMJ 2006; 333;586-8

#### References

1. Chamberlain JJ, Rhinehart AS, Shaefer CF, et al. Diagnosis and management of diabetes: synopsis of the 2016 American Diabetes Association Standards of Medical Care in Diabetes. Ann Intern Med. Published online 1 March 2016. doi:10.7326/M15-3016.

#### LIPID PROFILE, GEL SERUM

LIFID FROITLE, OLL SEROW				
CHOLESTEROL-TOTAL	245	mg/dL	Desirable: < 200 mg/dL Borderline high: 200-239 mg/dL High: > or =240 mg/dL	Enzymatic
TRIGLYCERIDES	279	mg/dL	Normal:: < 150, BorderlineHigh::150-199, High:: 200-499, VeryHigh::>500	GPO-Trinder
HDL CHOLESTEROL	50	mg/dl	< 40 - Low 40-59- Optimum 60 - High	Elimination/catalase
LDL CHOLESTEROL DIRECT	139	mg/dL	OPTIMAL: <100 mg/dL, Near optimal/ above optimal: 100-129 mg/dL, Borderline high: 130-159 mg/dL High: 160-189 mg/dL,	Calculated ,

**Lab No.** : SRE/18-03-2023/SR7421872 Page 7 of 11

Very high: >=190 mg/dL

<sup>2.</sup> Mosca A, Goodall I, Hoshino T, Jeppsson JO, John WG, Little RR, Miedema K, Myers GL, Reinauer H, Sacks DB, Weykamp CW. International Federation of Clinical Chemistry and Laboratory Medicine, IFCC Scientific Division. Global standardization of glycated hemoglobin measurement: the position of the IFCC Working Group. Clin Chem Lab Med. 2007;45(8):1077-1080.









 Lab No. : SR7421872
 Name : ABHASH KUMAR
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 VLDL
 56
 mg/dl
 < 40 mg/dl</td>
 Calculated

 CHOL HDL Ratio
 4.9
 LOW RISK 3.3-4.4 AVERAGE RISK 4.47-7.1 MODERATE RISK 7.1-11.0 HIGH RISK > 11.0
 Calculated

Reference: National Cholesterol Education Program. Executive summary of the third report of The National Cholesterol Education Program (NCEP) Expert Panel on detection, evaluation, and treatment of high blood cholesterol in adults (Adult Treatment Panel III). JAMA. May 16 2001;285(19):2486-97.

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DR. ANANNYA GHOSH MBBS, MD (Biochemistry) Consultant Biochemist



Patient Name : ABHASH KUMAR Ref Dr. : Dr.MEDICAL OFFICER

Age : 38 Y 6 M 18 D Collection Date:

**Gender** : M **Report Date** : 18/Mar/2023 01:45PM



# DEPARTMENT OF ULTRASONOGRAPHY REPORT ON EXAMINATION OF WHOLE ABDOMEN

### **LIVER**

Liver is enlarged in size (16.09 cm), having grade I fatty changes. No focal parenchymal lesion is evident. Intrahepatic biliary radicles are not dilated. Branches of portal vein are normal.

#### **PORTA**

The appearance of porta is normal. Common bile duct is normal (0.40 cm) with no intraluminal pathology (calculi /mass) could be detected at its visualised part. Portal vein is normal (1.00 cm) at porta.

### **GALLBLADDER**

Gallbladder is distended. Wall thickness appears normal. No intraluminal pathology (calculi/mass) could be detected. Sonographic Murphys sign is negative.

## **PANCREAS**

Echogenecity appears within limits, without any focal lesion. Shape, size & position appears normal. No Calcular disease noted. Pancreatic duct is not dilated. No peri-pancreatic collection of fluid noted.

## **SPLEEN**

Spleen is normal in size (8.90 cm). Homogenous and smooth echotexture without any focal lesion. Splenic vein at hilum appears normal. No definite collaterals could be detected.

#### **KIDNEYS**

Both kidneys are normal in shape, size (Rt. kidney 10.74 cm. & Lt. kidney 10.79 cm) axes & position. Cortical echogenecity appears normal maintaining cortico-medullary differentiation. Margin is regular and cortical thickness is uniform. No calcular disease noted. No hydronephrotic changes detected.

#### **URETERS**

Visualised part of upper ureters are not dilated.

## **URINARY BLADDER**

Urinary bladder is distended, wall thickness appeared normal. No intraluminal pathology (calculi / mass) could be detected.

#### **PROSTATE**

Prostate is normal in size. Echotexture appears within normal limits. No focal alteration of its echogenecity could be detectable.

**Lab No.** : SRE/18-03-2023/SR7421872 Page 9 of 11



**Lab No.** : SRE/18-03-2023/SR7421872

Patient Name : ABHASH KUMAR

: M

**Age** : 38 Y 6 M 18 D

Gender

It measures : 3.98 cm. x 2.80 cm. x 2.63 cm.

Approximate weight could be around = 15.39 gms.

## **RETROPERITONEUM & PERITONEUM**

No ascites noted. No definite evidence of any mass lesion detected. No detectable evidence of enlarged lymph nodes noted. Visualized part of aorta & IVC are within normal limit.

Lab Add.

**Collection Date:** 

: Dr.MEDICAL OFFICER

**Report Date** : 18/Mar/2023 01:45PM

Ref Dr.

## **IMPRESSION:**

Hepatomegaly with grade I fatty changes.

#### **KINDLY NOTE**

Ultrasound is not the modality of choice to rule out subtle bowel lesion.

Please Intimate us for any typing mistakes and send the report for correction within 7 days.

The science of Radiological diagnosis is based on the interpretation of various shadows produced by both the normal and abnormal tissues and are not always conclusive. Further biochemical and radiological investigation & clinical correlation is required to enable the clinician to reach the final diagnosis.

Patient Identity not verified

DR. S. K. MONDAL MBBS, CBET (Sonologist)

Page 10 of 11



Patient Name : ABHASH KUMAR Ref Dr. : Dr.MEDICAL OFFICER

Age :  $38 \ Y \ 6 \ M \ 18 \ D$  Collection Date:

**Gender**: M **Report Date**: 25/Mar/2023 06:54PM



# DEPARTMENT OF CARDIOLOGY E.C.G. REPORT

Heart rate - 88 / min. (average)

Rhythm - Sinus

Axis - Normal

P- Wave - Normal

PR Interval - Normal

**QRS Complexes - Normal** 

ST Segment - Isoelectric

T Wave - Normal

**QT Interval - Normal** 

**Voltage - Normal** 

**IMPRESSION**: Normal tracing. Please correlate clinically.

Dr SANJAY SUD MBBS (Cal), FCCP, MRI PHH(UK) ECHO CARDIOLOGIST

**Lab No.** : SRE/18-03-2023/SR7421872 Page 11 of 11

## SURAKSHA DIAGNOSTIC,RAJARHAT,KOLKATA BIO-RAD VARIANT-II TURBO CDM5.4. SN-16122

## PATIENT REPORT V2TURBO\_A1c\_2.0

Patient Data Analysis Data

Sample ID: C02135004223 Analysis Performed: 18/MAR/2023 15:17:01

Patient ID: SR7421872 Injection Number: 6949U Name: Run Number: 163

Physician: Rack ID:

Sex: Tube Number: 4

DOB: Report Generated: 18/MAR/2023 15:41:00

Operator ID: ASIT

Comments:

	NGSP		Retention	Peak
Peak Name	%	Area %	Time (min)	Area
A1a		1.2	0.160	29065
A1b		1.0	0.222	23279
F		0.8	0.273	18354
LA1c		1.7	0.400	41448
A1c	5.1		0.506	100823
P3		3.3	0.788	79135
P4		1.2	0.867	29443
Ao		86.6	0.984	2071003

Total Area: 2,392,551

## HbA1c (NGSP) = 5.1 % HbA1c (IFCC) = 33 mmol/mol

