



Suraksha DIAGNOSTICS

Lab No. Patient Name Age	: DUN/24-02-2023/SR : RAHUL DAS : 30 Y 7 M 22 D	7333945	Lab Add. Ref Dr. Collection	: Newtown, Kolkata-7 : Dr.MEDICAL OFFICE Date: 24/Feb/2023 09:47	R
Gender	: M		Report Da	te : 24/Feb/2023 01:18	M Distance
Test Name		Result	Unit	Bio Ref. Interval	Method
BILIRUBIN (TOT	AL), GEL SERUM				
BILIRUBIN (TOT	AL)	0.80	mg/dL	0.3-1.2 mg/dL	Vanadate oxidation
SODIUM, BLOOD	, GEL SERUM				
SODIUM,BLOOD		140.00	mEq/L	132 - 146 mEq/L	ISE INDIRECT
*CHLORIDE, BLC)OD , .				
CHLORIDE,BLOO		105.00	mEq/L	99-109 mEq/L	ISE INDIRECT
CREATININE, BL	DOD, GEL SERUM	0.90	mg/dL	0.7-1.3 mg/dL	Jaffe, alkaline picrate, kinetic
PHOSPHORUS-IN	NORGANIC, BLOOD , GE	EL SERUM			
	NORGANIC, BLOOD	3.0	mg/dL	2.4-5.1 mg/dL	Phosphomolybdate/UV
URIC ACID, BLO	OD . GEL SERUM				
URIC ACID, BLOC		8.00	mg/dL	3.5-7.2 mg/dL	Uricase/Peroxidase
ALKALINE PHOS	PHATASE , GEL SERUM				
ALKALINE PHOS		93.00	U/L	46-116 U/L	IFCC standardization
UREA,BLOOD		36.4	mg/dL	19-49 mg/dL	Urease with GLDH
DOTACCIUM DI					
POTASSIUM, BLC	DOD , <i>GEL SERUM</i> DOD	4.30	mEq/L	3.5-5.5 mEq/L	ISE INDIRECT
SGOT/AST , GEL					
SGOT/AST, GEL	SENUM	33.00	U/L	13-40 U/L	Modified IFCC
BILIRUBIN (DIRE BILIRUBIN (DIRE		0.20	mg/dL	<0.2 mg/dL	Vanadate oxidation
			5.	5.	
-	NG , BLOOD, NAF PLASN		ma (di	Impaired Factire 100, 125	Chus Ovidage Triader
GLUCOSE,FASTI	NG	91	mg/dL	Impaired Fasting-100-125 .~Diabetes- >= 126.~Fasting is defined as no caloric intake for least 8 hours.	Gluc Oxidase Trinder at

In the absence of unequivocal hyperglycemia, diagnosis requires two abnormal test results from the same sample or in two separate test samples.

Reference :

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







Lab No. : SR7333945 Name : RAHUL DAS

Age/G : 30 Y 7 M 22 D / M Date : 24-02-2023

Dr NEEPA CHOWDHURY MBBS MD (Biochemistry) Consultant Biochemist









Lab No. : SR7333945	Name : RAHUL DAS		Age/G : 30 Y 7 M 22 D / M	Date : 24-02-2023			
ESR (ERYTHROCYTE SEDIMENTATION RATE), EDTA WHOLE BLOOD							
1stHour	08	mm/hr	0.00 - 20.00 mm/hr	Westergren			
URINE ROUTINE ALL, ALL ,	URINE						
<u>PHYSI CAL EXAMI NATI ON</u>	<u>/</u>						
COLOUR	PALE YELLOW						
APPEARANCE	SLIGHTLY HAZY						
<u>CHEMI CAL EXAMI NATI ON</u>	V						
рН	6.5		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 indicators)/Manual			
GLUCOSE	NOT DETECTED		NOT DETECTED	Dipstick(glucose-oxidase-peroxidas method)/Manual			
KETONES (ACETOACETIC A ACETONE)	CID, NOT DETECTED		NOT DETECTED	Dipstick (Legals test)/Manual			
BLOOD	NOT DETECTED		NOT DETECTED	Dipstick (pseudoperoxidase reaction			
BILIRUBIN	NEGATIVE		NEGATIVE	Dipstick (azo-diazo reaction)/Manua			
UROBILINOGEN	NEGATIVE		NEGATIVE	Dipstick (diazonium ion reaction)/Manual			
NITRITE	NEGATIVE		NEGATIVE	Dipstick (Griess test)			
LEUCOCYTE ESTERASE	NEGATIVE		NEGATIVE	Dipstick (ester hydrolysis reaction)			
MI CROSCOPI C EXAMI NAT	<u>TI ON</u>						
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 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.

CBC WITH PLATELET & RETICULOCYTE COUNT, EDTA WHOLE BLOOD

		LE DECOD		
HEMOGLOBIN	14.9	g/dL	13 - 17	PHOTOMETRIC
WBC	7.2	*10^3/µL	4 - 10	DC detection method
RBC	6.10	*10^6/µL	4.5 - 5.5	DC detection method
PLATELET (THROMBOCYTE) COUNT	182	*10^3/µL	150 - 450*10^3/µL	DC detection method/Microscopy
DI FFERENTI AL COUNT				
NEUTROPHILS	58	%	40 - 80 %	Flowcytometry/Microscopy
LYMPHOCYTES	32	%	20 - 40 %	Flowcytometry/Microscopy
MONOCYTES	07	%	2 - 10 %	Flowcytometry/Microscopy
EOSINOPHILS	03	%	1-6%	Flowcytometry/Microscopy
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BASOPHILS	00	%	0-0.9%	Flowcytometry/Microscopy
CBC SUBGROUP 1				
HEMATOCRIT / PCV	41.2	%	40 - 50 %	Calculated
MCV	67.5	fl	83 - 101 fl	Calculated
MCH	24.4	pg	27 - 32 pg	Calculated
MCHC	36.1	gm/dl	31.5-34.5 gm/dl	Calculated
RDW - RED CELL DISTRIBUTION	WIDTH 15.6	%	11.6-14%	Calculated
RETICULOCYTE COUNT- AUTOMATED,BLOOD	2.2	%	0.5-2.5%	Cell Counter/Microscopy

Ale

DR. NEHA GUPTA MD, DNB (Pathology) Consultant Pathologist

Lab No. : DUN/24-02-2023/SR7333945







Lab No. : SR7333945 Name : RAHUL DAS

Age/G: 30 Y 7 M 22 D / M Date : 24-02-2023

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

ABO	В	
RH	POSITIVE	

TECHNOLOGY USED: GEL METHOD

ADVANTAGES :

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.

Gel Card Gel Card

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

Lab No. DUN/24-02-2023/SR7333945 :







Lab No. : SR7333945	Name : RAHUL DAS		Age/G : 30 Y 7 M 22 D / M	Date : 24-02-2023
SGPT/ALT , GEL SERUM				
SGPT/ALT	41.00	U/L	7-40 U/L	Modified IFCC
URIC ACID, URINE, SPOT U	IRINE			
URIC ACID, SPOT URINE	21.00	mg/dL	37-92 mg/dL	URICASE
ESTIMATED TWICE				
PDF Attached				
GLYCATED HAEMOGLOBIN	(HBA1C), EDTA WHOLE BLOOD			
GLYCATED HEMOGLOBIN (HBA1C) 5.2	%	***FOR BIOLOGICAL REFERENCE INTERVAL DETAILS , PLEASE REFER TO THE BELOW MENTIONED REMARKS/NOTE WITH ADDITIONAL CLINICAL INFORMATION ***	
HbA1c (IFCC)	33.0	mmol/mol		HPLC

RECOMMENDED FOR Hb-TYPING TO RULE OUT ANY HEMOGLOBINOPATHY WHICH MAY INTERFERE WITH THE TRUE VALUE OF HbA1C.

Clinical Information and Laboratory clinical interpretation on Biological Reference Interval:

Low risk / Normal / non-diabetic: <5.7% (NGSP)</th>/ < 39 mmol/mol (IFCC)</th>Pre-diabetes/High risk of Diabetes: 5.7%- 6.4% (NGSP) / 39 - < 48 mmol/mol (IFCC)</td>Diabetics-HbA1c level: >/= 6.5% (NGSP)/ > 48 mmol/mol (IFCC)

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.

 \emptyset If a patient changes treatment plans or does not meet his or her glycemic goals, HbA1c testing should be done quarterly. \emptyset 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_{12} / 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.

2. 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.

LIPID PROFILE , GEL SERUMCHOLESTEROL-TOTAL200.00

mg/dL

Desirable: < 200 mg/dL Enzymatic Borderline high: 200-239 mg/dL High: > or =240 mg/dL

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Lab No. : SR7333945	Name : RAHUL DAS		Age/G : 30 Y 7 M 22 D / M	Date : 24-02-2023
TRIGLYCERIDES	127.00	mg/dL	Normal:: < 150, BorderlineHigh::150-199, High:: 200-499, VeryHigh::>500	GPO-Trinder
HDL CHOLESTEROL	37.00	mg/dl	< 40 - Low 40-59- Optimum 60 - High	Elimination/catalase
LDL CHOLESTEROL DIRECT	T 157.0	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, Very high : >=190 mg/dL	Elimination / Catalase -,
VLDL	6	mg/dl	< 40 mg/dl	Calculated
CHOL HDL Ratio	5.4		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.

TOTAL PROTEIN [BLOOD] ALB:GLO RATIO ,							
TOTAL PROTEIN	6.90	g/dL	5.7-8.2 g/dL	BIURET METHOD			
ALBUMIN	4.4	g/dL	3.2-4.8 g/dL	BCG Dye Binding			
GLOBULIN	2.50	g/dl	1.8-3.2 g/dl	Calculated			
AG Ratio	1.76		1.0 - 2.5	Calculated			
THYROID PANEL (T3, T4, TSH) , GEL SER	UM						
T3-TOTAL (TRI IODOTHYRONINE)	1.34	ng/ml	0.60-1.81 ng/ml	CLIA			
T4-TOTAL (THYROXINE)	11.9	µg/dL	3.2-12.6 µg/dL	CLIA			
TSH (THYROID STIMULATING HORMONE)	1.80	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 µ IU/mL

THIRD TRIMESTER : 0.30 -3.50 µ 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.<u>http://doi.org/10.1089/thy.2016.0457</u>

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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.

mg/dL

CALCIUM, BLOOD

CALCIUM, BLOOD

8.80

8.7-10.4 mg/dL

Arsenazo III

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

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Lab Add.:Ref Dr.: Dr.MEDICAL OFFICERCollection Date:



Report Date : 24/Feb/2023 04:18PM

DEPARTMENT OF CARDIOLOGY REPORT OF E.C.G.

DATA HEART RATE	57 Bpm
PR INTERVAL	158 Ms
QRS DURATION	94 Ms
QT INTERVAL	392 Ms
QTC INTERVAL	384 Ms
AXIS P WAVE	47 Degree
QRS WAVE	41 Degree
T WAVE IMPRESSION :	25 Degree Sinus bradycardia otherwise normal ecg.

Ackor

Dr. A C RAY Department of Non-invasive Cardiology



Lab Add. : Ref Dr. : Dr.MEDICAL OFFICER Collection Date : Report Date : 24/Feb/2023 03:00PM



X-RAY REPORT OF CHEST (PA)

FINDINGS :

No active lung parenchymal lesion is seen.

Both the hila are normal in size, density and position.

Mediastinum is in central position. Trachea is in midline.

Domes of diaphragm are smoothly outlined. Position is within normal limits.

Lateral costo-phrenic angles are clear.

The cardio-thoracic ratio is normal.

Bony thorax reveals no definite abnormality.

IMPRESSION:

Normal study.

Dr. Anoop Sastry MBBS, DMRT(CAL) CONSULTANT RADIOLOGIST Registration No.: WB-36628



Lab Add. : Ref Dr. : Dr.MEDICAL OFFICER Collection Date : Report Date : 24/Feb/2023 04:49PM



DEPARTMENT OF ULTRASONOGRAPHY

REPORT ON EXAMINATION OF WHOLE ABDOMEN

LIVER: It is mildly enlarged in size (15.19 cm) with grade I fatty changes. No focal lesion of altered echogenicity is seen. Intrahepatic biliary radicles are not dilated. The portal vein branches and hepatic veins are normal.

GALL BLADDER: Well distended lumen shows no inralumnial calculus or mass. Wall thickness is normal. No pericholecystic collection is noted.

PORTA HEPATIS: The portal vein (0.88 cm) is normal in caliber with clear lumen. The common bile duct is normal in caliber. Visualized lumen is clear till visualised extent. Common bile duct measures approx 0.42 cm in diameter. *Extreme lower end of common bile duct is not visualised due to bowel gas shadow*.

PANCREAS: It is normal in shape, size and echopattern. Main pancreatic duct is not dilated. No focal lesion of altered echogenicity is seen. The peripancreatic region shows no abnormal fluid collection.

SPLEEN: It is normal in shape, size (9.90 cm) and shows homogeneous echopattern. No focal lesion is seen. No abnormal venous dilatation is seen in the splenic hilum.

<u>KIDNEYS</u>: Both Kidneys are normal in shape, size and position. Cortical echogenicity and thickness are normal with normal cortico-medullary differentiation in both kidneys. No calculus, hydronephrosis or mass is noted. The perinephric region shows no abnormal fluid collection.

RIGHT KIDNEY measures 9.70 cm LEFT KIDNEY measures 10.33 cm

URETER: Both ureters are not dilated. No calculus is noted in either side.

PERITONEUM & RETROPERITONEUM: The aorta and IVC are normal. Lymph nodes are not enlarged. No free fluid is seen in peritoneum.

URINARY BLADDER: It is adequately distended providing optimum scanning window. The lumen is clear and wall thickness is normal.

PROSTATE: It is normal in shape, size and echopattern. No focal lesion is seen. Capsule is smooth.

Prostate measures : 2.46 x 3.34 x 3.20 cm. Weight 13.76 gms.

IMPRESSION:

Mild hepatomegaly with grade I fatty changes in liver.

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Please correlate clinically.

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.

The report and films are not valid for medico-legal purpose.

Patient Identity not verified

DR. NAMRATA CHATTERJEE MBBS,CONSULTANT SONOLOGIST Reg No : 79092

SURAKSHA DIAGNOSTIC, RAJARHAT, KOLKATA. BIO-RAD VARIANT TURBO CDM 5.4 s/n 15893

PATIENT REPORT V2TURBO_A1c_2.0

Patient Data		Analysis Data	
Sample ID:	C02135979851	Analysis Performed:	24/FEB/2023 13:11:23
Patient ID:	SR7333945	Injection Number:	4784U
Name:		Run Number:	100
Physician:		Rack ID:	0003
Sex:		Tube Number:	6
DOB:		Report Generated:	24/FEB/2023 13:27:51
		Operator ID:	ANAMIKA

Comments:

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
A1a		0.9	0.156	16299
A1b		0.7	0.214	12742
F		0.9	0.279	16522
LA1c		1.3	0.390	23216
A1c	5.2		0.498	50573
P3		4.2	0.803	74948
Ao		58.4	1.000	1040119
Variant Window		30.7	1.090	546004

Total Area: 1,780,423

HbA1c (NGSP) = 5.2 % HbA1c (IFCC) = 33 mmol/mol

