

Lab Add.

Ref Dr.



Lab No. : SRE/19-05-2023/SR7658484

Patient Name : SAIKAT KARMAKAR

: 28 Y 9 M 18 D

: M Report Date : 19/May/2023 12:

Collection Date: 19/May/2023 08:04AM

Report Date : 19/May/2023 12:08PM

: Newtown, Kolkata-700156

: Dr.MEDICAL OFFICER



Test Name	Result	Unit	Bio Ref. Interval	Method	
ALKALINE PHOSPHATASE , GEL SERUM					
ALKALINE PHOSPHATASE	74	U/L	46-116 U/L	IFCC standardization	
BILIRUBIN (TOTAL) , GEL SERUM					
BILIRUBIN (TOTAL)	0.80	mg/dL	0.3-1.2 mg/dL	Vanadate oxidation	
SGPT/ALT , GEL SERUM					
SGPT/ALT	32	U/L	7-40 U/L	Modified IFCC	
POTASSIUM, BLOOD , GEL SERUM					
POTASSIUM,BLOOD	4.10	mEq/L	3.5-5.5 mEq/L	ISE INDIRECT	
UREA,BLOOD , GEL SERUM	27.8	mg/dL	19-49 mg/dL	Urease with GLDH	
CREATININE, BLOOD	0.82	mg/dL	0.7-1.3 mg/dL	Jaffe, alkaline picrate, kinetic	
GLUCOSE, FASTING, BLOOD, NAF PLASMA					
GLUCOSE,FASTING	101	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

Age Gender

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

URIC	ACID	BLOOD	GFI	SFRUM
OILIO	ACID,	DECOD	ULL	JEILOIN

URIC ACID,BLOOD	6.90	mg/dL	3.5-7.2 mg/dL	Uricase/Peroxidase
THYROID PANEL (T3, T4, TSH), GEL	SERUM			
T3-TOTAL (TRI IODOTHYRONINE)	0.83	ng/ml	0.60-1.81 ng/ml	CLIA
T4-TOTAL (THYROXINE)	10.1	μg/dL	3.2-12.6 μg/dL	CLIA
TSH (THYROID STIMULATING HORM)	ONE) 3.87	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.

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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:

*CHIODIDE BLOOD

- 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. http://doi.org/10.1089/thy.2016.0457
- 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.

CHLORIDE, BLOOD	102	mEq/L	99-109 mEq/L	ISE INDIRECT
SGOT/AST, GEL SERUM SGOT/AST	27	U/L	13-40 U/L	Modified IFCC
SODIUM, BLOOD , GEL SERUM SODIUM, BLOOD	140	mEq/L	132 - 146 mEq/L	ISE INDIRECT
PHOSPHORUS-INORGANIC, BLOOD , GEL PHOSPHORUS-INORGANIC, BLOOD	SERUM 2.9	mg/dL	2.4-5.1 mg/dL	Phosphomolybdate/UV
BILIRUBIN (DIRECT) , GEL SERUM BILIRUBIN (DIRECT)	0.20	mg/dL	<0.2 mg/dL	Vanadate oxidation

Dr NEEPA CHOWDHURY MBBS MD (Biochemistry) Consultant Biochemist

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PDF Attached

GLYCATED HAEMOGLOBIN (HBA1C), EDTA WHOLE BLOOD

GLYCATED HEMOGLOBIN (HBA1C) 5.6

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

HbA1c (IFCC) 38.0 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.

 \varnothing 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.

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

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^{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.









Lab No. : SR7658484 Na	me : SAIKAT KARMAKAR		Age/G: 28 Y 9 M 18 D / M	Date : 19-05-2023		
ESR (ERYTHROCYTE SEDIMENTATION RATE) , EDTA WHOLE BLOOD						
1stHour	23	mm/hr	0.00 - 20.00 mm/hr	Westergren		
CBC WITH PLATELET (THROM	BOCYTE) COUNT , EDTA WE	HOLE BLOOD				
HEMOGLOBIN	15.8	g/dL	13 - 17	PHOTOMETRIC		
WBC	7.5	*10^3/µL	4 - 10	DC detection method		
RBC	5.24	*10^6/µL	4.5 - 5.5	DC detection method		
PLATELET (THROMBOCYTE) C	COUNT 217	*10^3/µL	150 - 450*10^3/μL	DC detection method/Microscopy		
DIFFERENTIAL COUNT						
NEUTROPHILS	66	%	40 - 80 %	Flowcytometry/Microscopy		
LYMPHOCYTES	24	%	20 - 40 %	Flowcytometry/Microscopy		
MONOCYTES	08	%	2 - 10 %	Flowcytometry/Microscopy		
EOSINOPHILS	02	%	1 - 6 %	Flowcytometry/Microscopy		
BASOPHILS	00	%	0-0.9%	Flowcytometry/Microscopy		
CBC SUBGROUP						
HEMATOCRIT / PCV	48.5	%	40 - 50 %	Calculated		
MCV	92.5	fl	83 - 101 fl	Calculated		
MCH	30.2	pg	27 - 32 pg	Calculated		
MCHC	32.6	gm/dl	31.5-34.5 gm/dl	Calculated		
RDW - RED CELL DISTRIBUTION	N WIDTH 14.1	%	11.6-14%	Calculated		
PDW-PLATELET DISTRIBUTIO	N WIDTH 16.3	fL	8.3 - 25 fL	Calculated		
MPV-MEAN PLATELET VOLUMI	E 9.7		7.5 - 11.5 fl	Calculated		

ATT

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

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CALCIUM, BLOOD				
CALCIUM,BLOOD	9.90	mg/dL	8.7-10.4 mg/dL	Arsenazo III
TOTAL PROTEIN [BLOOD] ALB:GLO RATIO , .			
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
LIPID PROFILE , GEL SER	UM			
CHOLESTEROL-TOTAL	171	mg/dL	Desirable: < 200 mg/dL Borderline high: 200-239 mg/dL High: > or =240 mg/dL	Enzymatic
TRIGLYCERIDES	137	mg/dL	Normal:: < 150, BorderlineHigh::150-199, High:: 200-499, VeryHigh::>500	GPO-Trinder
HDL CHOLESTEROL	37	mg/dl	< 40 - Low 40-59- Optimum 60 - High	Elimination/catalase
LDL CHOLESTEROL DIRE	CT 124	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	10	mg/dl	< 40 mg/dl	Calculated
CHOL HDL Ratio	4.6		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.

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

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Patient Name : SAIKAT KARMAKAR Ref Dr. : Dr.MEDICAL OFFICER

Age: 28 Y 9 M 18 DCollection Date:

Gender : M **Report Date** : 19/May/2023 01:04PM



DEPARTMENT OF ULTRASONOGRAPHY REPORT ON EXAMINATION OF WHOLE ABDOMEN

LIVER

Liver is enlarged in size (16.57 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. **Multiple calculi (largest one measures 0.54 cm) noted in lumen.**

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 (10.59 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 11.05 cm. & Lt. kidney 10.03 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.

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Gender : M **Report Date** : 19/May/2023 01:04PM

It measures : 3.53 cm. x 3.27 cm. x 2.74 cm.

Approximate weight could be around = 16.57 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.

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IMPRESSION:

- 1) Hepatomegaly with grade I fatty changes.
- 2) Cholelithiasis.

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)

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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: D02132161991 Analysis Performed: 19/MAY/2023 12:47:30

 Patient ID:
 SR7658484
 Injection Number:
 6979U

 Name:
 Run Number:
 160

 Physician:
 Rack ID:
 0003

 Sex:
 Tube Number:
 2

DOB: Report Generated: 19/MAY/2023 13:06:02

Operator ID: ASIT

Comments:

	NGSP		Retention	Peak
Peak Name	%	Area %	Time (min)	Area
A1a		0.9	0.163	19788
A1b		1.0	0.228	23354
F		0.7	0.274	16894
LA1c		1.8	0.397	41401
A1c	5.6		0.500	106659
P3		3.3	0.778	74641
P4		1.2	0.860	27060
Ao		86.5	0.977	1983700

Total Area: 2,293,497

HbA1c (NGSP) = 5.6 % HbA1c (IFCC) = 38 mmol/mol

