

Lab Add.

Ref Dr.



**Lab No.** : CHP/04-01-2023/SR7143719

Patient Name : SANJU DAS Age : 39 Y 5 M 29 D

Gender : M Report Date : 05/Jan/2023 01:10PM

Collection Date: 04/Jan/2023 09:59AM

: Newtown, Kolkata-700156

: Dr.MEDICAL OFFICER

Test Name	Result	Unit	Bio Ref. Interval	Method		
CHLORIDE, BLOOD , .						
CHLORIDE,BLOOD	104.00	mEq/L	99-109 mEq/L	ISE INDIRECT		
POTASSIUM, BLOOD , GEL SERI	UM					
POTASSIUM,BLOOD	4.10	mEq/L	3.5-5.5 mEq/L	ISE INDIRECT		
TOTAL PROTEIN [BLOOD] ALB:	:GLO RATIO , .					
TOTAL PROTEIN	7.90	g/dL	5.7-8.2 g/dL	BIURET METHOD		
ALBUMIN	4.6	g/dL	3.2-4.8 g/dL	BCG Dye Binding		
GLOBULIN	3.30	g/dl	1.8-3.2 g/dl	Calculated		
AG Ratio	1.39		1.0 - 2.5	Calculated		
SGOT/AST , GEL SERUM						
SGOT/AST	55.00	U/L	13-40 U/L	Modified IFCC		
SGPT/ALT , GEL SERUM						
SGPT/ALT	91.00	U/L	7-40 U/L	Modified IFCC		
GLUCOSE, FASTING, BLOOD, NAF PLASMA						
GLUCOSE,FASTING	103	mg/dL	Impaired Fasting-100-125. Diabetes- >= 126. Fasting is defined as no calor intake for at least 8 hours.	Gluc Oxidase Trinder ic		

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.

CALCIUM, BLOOD

CALCIUM,BLOOD 9.30 mg/dL 8.7-10.4 mg/dL Arsenazo III

PHOSPHORUS-INORGANIC, BLOOD, GEL SERUM

PHOSPHORUS-INORGANIC, BLOOD 3.3 mg/dL 2.4-5.1 mg/dL Phosphomolybdate/UV

PDF Attached

 ${f GLYCATED}$   ${f HAEMOGLOBIN}$   ${f (HBA1C)}$  , EDTA WHOLE BLOOD

GLYCATED HEMOGLOBIN (HBA1C) 4.9 % \*\*\*FOR BIOLOGICAL REFERENCE INTERVAL

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

HbA1c (IFCC) 30.0 mmol/mol HPLC

Clinical Information and Laboratory clinical interpretation on Biological Reference Interval:

Low risk / Normal / non-diabetic : <5.7% (NGSP) / < 39 mmol/mol (IFCC)
Pre-diabetes/High risk of Diabetes : 5.7%- 6.4% (NGSP) / 39 - < 48 mmol/mol (IFCC)

Page 1 of 12





Lab No. : SR7143719 Name : SANJU DAS Age/G : 39 Y 5 M 29 D / M Date : 05-01-2023

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.
- 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.
- 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 SERUM

CHOLESTEROL-TOTAL	211.00	mg/dL	Desirable: < 200 mg/dL Borderline high: 200-239 mg/dL High: > or =240 mg/dL	Enzymatic
TRIGLYCERIDES	209.00	mg/dL	Normal:: < 150, BorderlineHigh::150-199, High:: 200-499, VeryHigh::>500	GPO-Trinder
HDL CHOLESTEROL	54.00	mg/dl	< 40 - Low 40-59- Optimum 60 - High	Elimination/catalase
LDL CHOLESTEROL DIRECT	115.0	mg/dL	OPTIMAL: <100 mg/dL, Near optimal/ above optimal: 100-129 mg/dL, Borderline high: 130-159 mg/dL Horderline high: 160-189 mg/dL, Very high: >=190 mg/dL	Calculated ,
VLDL	42	mg/dl	< 40 mg/dl	Calculated
CHOL HDL Ratio	3.9		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.

mEa/L

#### **SODIUM, BLOOD**, GEL SERUM

SODIUM, BLOOD

·			
GLUCOSE, PP , BLOOD, NAF PLASMA			
GLUCOSE,PP	106	mg/dL	Impaired Glucose Tolerance-140 Gluc Oxidase Trinder to 199.

140.00

The test should be performed as described by the WHO, using a glucose load containing the equivalent of 75-g anhydrous glucose dissolved in water. In the absence of unequivocal hyperglycemia, diagnosis requires two abnormal test results from the same sample or in two separate test samples.

**Lab No.** : CHP/04-01-2023/SR7143719 Page 2 of 12

132 - 146 mEa/L

ISE INDIRECT





Lab No.: SR7143719 Name: SANJU DAS Age/G: 39 Y 5 M 29 D / M Date: 05-01-2023

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

URIC ACID, URINE, SPOT URINE

URIC ACID, SPOT URINE mg/dL 37-92 mg/dL URICASE 17.00

ESTIMATED TWICE

Dr NEEPA CHOWDHURY MBBS MD (Biochemistry) Consultant Biochemist

Page 3 of 12





Lab No. : SR7143719 Name : SA	NJU DAS	Α	age/G: 39 Y 5 M 29 D / M	Date : 04-01-2023
BILIRUBIN (DIRECT), GEL SERUM				
BILIRUBIN (DIRECT)	0.10	mg/dL	<0.2 mg/dL	Vanadate oxidation
UREA,BLOOD , GEL SERUM	19.3	mg/dL	19-49 mg/dL	Urease with GLDH
CREATININE, BLOOD	0.98	mg/dL	0.7-1.3 mg/dL	Jaffe, alkaline picrate, kinetic
THYROID PANEL (T3, T4, TSH), GELS	SERUM			
T3-TOTAL (TRI IODOTHYRONINE)	1.19	ng/ml	0.60-1.81 ng/ml	CLIA
T4-TOTAL (THYROXINE)	7.0	μg/dL	3.2-12.6 μg/dL	CLIA
TSH (THYROID STIMULATING HORMO	NE) 3.89	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. 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.

ALKALINE PHOSPHATASE , GEL SERUM				
ALKALINE PHOSPHATASE	93.00	U/L	46-116 U/L	IFCC standardization
URIC ACID, BLOOD , GEL SERUM URIC ACID,BLOOD	6.50	mg/dL	3.5-7.2 mg/dL	Uricase/Peroxidase
BILIRUBIN (TOTAL) , GEL SERUM	0.30	9, 42	0.0 7.2 mg/a2	endason si omaase
BILIRUBIN (TOTAL)	0.80	mg/dL	0.3-1.2 mg/dL	Vanadate oxidation

**Lab No.** : CHP/04-01-2023/SR7143719 Page 4 of 12





Lab No. : SR7143719 Name : SANJU DAS Age/G : 39 Y 5 M 29 D / M Date : 04-01-2023

Dr NEEPA CHOWDHURY MBBS MD (Biochemistry) Consultant Biochemist









MBBS, MD, DNB (Pathology)

Lab No. : SR7143719 Name : SANJ	U DAS		Age/G: 39 Y 5 M 29 D / M	Date: 04-01-2023
CBC WITH PLATELET & RETICULOCYTE (	COUNT , EDTA	WHOLE BLOOD		
HEMOGLOBIN	17.8	g/dL	13 - 17	PHOTOMETRIC
Values rechecked				
WBC	7.8	*10^3/µL	4 - 10	DC detection method
RBC	5.34	*10^6/µL	4.5 - 5.5	DC detection method
PLATELET (THROMBOCYTE) COUNT	174	*10^3/μL	150 - 450*10^3/μL	DC detection method/Microscopy
DIFFERENTIAL COUNT				
NEUTROPHILS	62	%	40 - 80 %	Flowcytometry/Microscopy
LYMPHOCYTES	28	%	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 1				
HEMATOCRIT / PCV	51.1	%	40 - 50 %	Calculated
MCV	95.6	fl	83 - 101 fl	Calculated
MCH	33.4	pg	27 - 32 pg	Calculated
MCHC	34.9	gm/dl	31.5-34.5 gm/dl	Calculated
RDW - RED CELL DISTRIBUTION WIDTH	14.9	%	11.6-14%	Calculated
RETICULOCYTE COUNT- AUTOMATED,BLOOD	1.5	%	0.5-2.5%	Cell Counter/Microscopy
				Megulatin.
				Dr Mansi Gulati Consultant Pathologist

**Lab No.** : CHP/04-01-2023/SR7143719 Page 6 of 12









Dinetick (triple indicator method)

Microscopy

Microscopy

Microscopy

Microscopy

Microscopy

Microscopy

Lab No. : SR7143719 Name : SANJU DAS Age/G : 39 Y 5 M 29 D / M Date : 04-01-2023

ESR (ERYTHROCYTE SEDIMENTATION RATE), EDTA WHOLE BLOOD

7 0

4-6

NOT DETECTED

NOT DETECTED

NOT DETECTED

NOT DETECTED

NOT DETECTED

1stHour 06 mm/hr 0.00 - 20.00 mm/hr Westergren

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

#### **PHYSICAL EXAMINATION**

COLOUR PALE YELLOW
APPEARANCE SLIGHTLY HAZY

#### **CHEMICAL EXAMINATION**

рн	7.0	7.0		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-peroxidase method)/Manual
KETONES (ACETOACETIC ACID, ACETONE)	NOT DETECTED		NOT DETECTED	Dipstick (Legals test)/Manual
BLOOD	NOT DETECTED		NOT DETECTED	Dipstick (pseudoperoxidase reaction)
BILIRUBIN	NEGATIVE		NEGATIVE	Dipstick (azo-diazo reaction)/Manual
UROBILINOGEN	NEGATIVE		NEGATIVE	Dipstick (diazonium ion reaction)/Manual
NITRITE	NEGATIVE		NEGATIVE	Dipstick (Griess test)
LEUCOCYTE ESTERASE	NEGATIVE		NEGATIVE	Dipstick (ester hydrolysis reaction)
MICROSCOPIC EXAMINATION				
LEUKOCYTES (PUS CELLS)	1-3	/hpf	0-5	Microscopy

16 00

0-5

0-2

NOT DETECTED

NOT DETECTED

NOT DETECTED

NOT DETECTED

#### Note:

CAST

**CRYSTALS** 

**BACTERIA** 

YEAST

**EPITHELIAL CELLS** 

**RED BLOOD CELLS** 

- 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.

/hpf

/hpf

- 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.

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

 ABO
 AB
 Gel Card

 RH
 POSITIVE
 Gel Card

#### **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.

**Lab No.** : CHP/04-01-2023/SR7143719 Page 7 of 12









Lab No. : SR7143719 Name : SANJU DAS Age/G : 39 Y 5 M 29 D / M Date : 04-01-2023

Historical records check not performed.

П



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

**Lab No.** : CHP/04-01-2023/SR7143719





**Lab No.** : CHP/04-01-2023/SR7143719 **Lab Add.** 

Patient Name : SANJU DAS Ref Dr. : Dr.MEDICAL OFFICER

Age : 39 Y 5 M 29 D Collection Date:

**Gender** : M **Report Date** : 04/Jan/2023 01:04PM



## DEPARTMENT OF ULTRASONOGRAPHY REPORT ON EXAMINATION OF WHOLE ABDOMEN

#### **LIVER**

**Liver is enlarged in size** (160 mm) having normal shape & shows increased echogenecity. 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 3 mm. with no intraluminal pathology (Calculi /mass) could be detected at its visualsed part. Portal vein is normal (9 mm.) at porta.

#### **GALL BLADDER**

Gallbladder is physiologically 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 (88 mm). Homogenous and smooth echotexture without any focal lesion. Splenic vein at hilum appears normal. No definite collaterals could be detected.

#### **KIDNEYS**

Both the kidneys are normal in shape, size (Rt. kidney 105 mm. & Lt. kidney 115 mm.) axes & position. Cortical echogenecity appears normal maintaining cortico-medullary & cortico-hepatic differentiation. Margin is regular and cortical thickness is uniform. No calcular disease noted. No hydronephrotic changes detected. 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.

It measures : 35 mm x 37 mm x 26 mm. Approximate weight could be around = 18 gms

#### RETROPERITONEUM, PERITONEUM & LOWER PLEURAL SPACE

No ascites noted. No definite evidence of any mass lesion detected. No detectable evidence of enlarged lymph nodes noted. Visualised part of aorta & IVC are within normal limit. No effusion noted at costo-phrenic angles.

#### **IMPRESSION**

**Lab No.** : CHP/04-01-2023/SR7143719 Page 9 of 12





Lab No. : CHP/04-01-2023/SR7143719

**Patient Name** : SANJU DAS

Age : 39 Y 5 M 29 D

Gender : M

**Report Date** : 04/Jan/2023 01:04PM

: Dr.MEDICAL OFFICER

- 1. Hepatomegaly with fatty changes (grade I+).
- 2. Distended gut.
- 3. Probe tenderness + on epigastrium.
- -- Correlate clinically.

#### **Kindly note**

Lab Add.

Ref Dr.

**Collection Date:** 

- Ø Please Intimate us for any typing mistakes and send the report for correction within 7 days.
- Of 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 GITA BAIDYAA CONSULTANT SONOLOGIST

Page 10 of 12 Lab No. CHP/04-01-2023/SR7143719





**Lab No.** : CHP/04-01-2023/SR7143719

Patient Name : SANJU DAS Ref Dr. : Dr.MEDICAL OFFICER

**Age** : 39 Y 5 M 29 D **Collection Date**:

**Gender**: M **Report Date**: 04/Jan/2023 07:13PM



#### X-RAY REPORT OF CHEST (PA)

Lab Add.

#### **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. SANDIP MANDAL MD (RADIODIAGNOSIS)

**Lab No.** : CHP/04-01-2023/SR7143719 Page 11 of 12





**Lab No.** : CHP/04-01-2023/SR7143719

Patient Name : SANJU DAS

**Age** : 39 Y 5 M 29 D

Gender : M

Lab Add. :

**Ref Dr.** : Dr.MEDICAL OFFICER

**Collection Date:** 

**Report Date** : 04/Jan/2023 12:46PM



## DEPARTMENT OF CARDIOLOGY REPORT OF E.C.G.

DATA		
HEART RATE	70	Bpm
PR INTERVAL	114	Ms
QRS DURATION	82	Ms
QT INTERVAL	356	Ms
QTC INTERVAL	387	Ms
AXIS P WAVE	0	Dograo
PVAVE	U	Degree
QRS WAVE	46	Degree
T WAVE IMPRESSION	33	Degree Normal sinus rhythm, within normal
IWIFRESSION	:	Normal sinus rhythm, within normal limits.

Dr Praween Kumar Jaiswal MBBS, DPH, PGDCC

2 Jaiewal

WBMC - 64104

**Lab No.** : CHP/04-01-2023/SR7143719

## 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: C02135957838 Analysis Performed: 04/JAN/2023 13:21:35

Patient ID: SR7143719 Injection Number: 4086U Name: Run Number: 104

Physician: Rack ID:

Sex: Tube Number: 10

DOB: Report Generated: 04/JAN/2023 13:29:17

Operator ID: ANUP

Comments:

	NGSP		Retention	Peak
Peak Name	%	Area %	Time (min)	Area
A1a		0.8	0.162	13822
A1b		1.3	0.225	21695
F		0.2	0.325	3191
LA1c		1.8	0.410	30450
A1c	4.9		0.522	66868
P3		3.3	0.795	56221
P4		1.1	0.875	19013
Ao		87.4	0.995	1470653

Total Area: 1,681,914

### HbA1c (NGSP) = 4.9 % HbA1c (IFCC) = 30 mmol/mol

