



<b>Lab No.</b>	: BKP/24-02-2024/SR8784839	<b>Lab Add.</b>	: Newtown,Kolkata-700156
<b>Patient Name</b>	: SNIGDHENDU PRAMANIK	<b>Ref Dr.</b>	: Dr.MEDICAL OFFICER
<b>Age</b>	: 34 Y 4 M 11 D	<b>Collection Date</b>	: 24/Feb/2024 10:17AM
<b>Gender</b>	: M	<b>Report Date</b>	: 24/Feb/2024 03:19PM

**DEPARTMENT OF BIOCHEMISTRY**

Test Name	Result	Bio Ref. Interval	Unit
<b>ALKALINE PHOSPHATASE</b> , GEL SERUM (Method:IFCC standardization )	100	46-116	U/L
<b>GLUCOSE,FASTING</b> (Method:Gluc Oxidase Trinder)	<b>100</b>	Impaired Fasting-100-125 ~Diabetes- >= 126.~Fasting is defined as no caloric intake for at least 8 hours.	mg/dL

*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.

<b>POTASSIUM,BLOOD</b> (Method:ISE INDIRECT)	3.80	3.5-5.5	mEq/L
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<b>CREATININE, BLOOD</b> (Method:Jaffe, alkaline picrate, kinetic)	0.94	0.7-1.3	mg/dL
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<b>THYROID PANEL (T3, T4, TSH) , GEL SERUM</b>			
T3-TOTAL (TRI IODOTHYRONINE) (Method:CLIA)	1.21	0.60-1.81 ng/ml	ng/ml
T4-TOTAL (THYROXINE) (Method:CLIA)	9.9	3.2-12.6	µg/dL
TSH (THYROID STIMULATING HORMONE) (Method:CLIA)	0.887	0.55-4.78	µIU/mL

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:

- 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.
- 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 µ IU/mL

SECOND TRIMESTER: 0.20 -3.50 µ IU/mL

THIRD TRIMESTER : 0.30 -3.50 µ IU/mL

References:

- 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>
- Kalra S, Agarwal S, Aggarwal R, Ranabir S. Trimester-specific thyroid-stimulating hormone: An indian perspective. *Indian J Endocr Metab* 2018;22:1-4.



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<b>Gender</b>	: M	<b>Report Date</b>	: 24/Feb/2024 03:19PM



### DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Bio Ref. Interval	Unit
<b>URIC ACID,BLOOD</b> (Method:Uricase/Peroxidase)	5.90	3.5-7.2	mg/dL
<b>BILIRUBIN (TOTAL) , GEL SERUM</b> BILIRUBIN (TOTAL) (Method:Vanadate oxidation)	0.70	0.3-1.2	mg/dL
<b>CALCIUM,BLOOD</b> (Method:Arsenazo III)	9.10	8.7-10.4	mg/dL
<b>BILIRUBIN (DIRECT)</b> (Method:Vanadate oxidation)	0.20	<0.2	mg/dL
<b>SGOT/AST</b> (Method:Modified IFCC)	26	13-40	U/L
<b>SODIUM,BLOOD</b> (Method:ISE INDIRECT)	142	132 - 146	mEq/L
<b>CHLORIDE,BLOOD</b> (Method:ISE INDIRECT)	104	99-109	mEq/L
<b>UREA,BLOOD</b> (Method:Urease with GLDH)	21.4	19-49	mg/dL
<b>PHOSPHORUS-INORGANIC,BLOOD</b> (Method:Phosphomolybdate/UV)	2.5	2.4-5.1 mg/dL	mg/dL

\*\*\* End Of Report \*\*\*

Dr NEEPA CHOWDHURY  
MBBS MD (Biochemistry)  
Consultant Biochemist  
Reg No. WBMC 62456



Lab No.	: BKP/24-02-2024/SR8784839	Lab Add.	: Newtown,Kolkata-700156
Patient Name	: SNIGDHENDU PRAMANIK	Ref Dr.	: Dr.MEDICAL OFFICER
Age	: 34 Y 4 M 11 D	Collection Date	: 24/Feb/2024 01:30PM
Gender	: M	Report Date	: 24/Feb/2024 06:37PM



DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Bio Ref. Interval	Unit
<b>URIC ACID, URINE, SPOT URINE</b>			
URIC ACID, SPOT URINE (Method:URICASE)	76.00	37-92 mg/dL	mg/dL
<b>GLUCOSE,PP</b>			
(Method:Gluc Oxidase Trinder)	88*	Impaired Glucose Tolerance-140 to 199. Diabetes>= 200.	mg/dL


\* NOTE: The lower value of Plasma Glucose (PP) compared to that of Plasma Glucose(F), may be interpreted having due to regard to the history of the case with particular reference to Diabetes, if any including the time and dose of antidiabetic drug administered, if any.

Blood glucose level is maintained by a very complex integrated mechanism involving critical interplay of release of hormones and action of enzymes on key metabolic pathways resulting in a smooth transition normally from a high level of glucose influx following meal / glucose intake to a basal level after 2 – 3 hrs. or so. Excluding alimentary hypoglycemia, renal glycosuria, hereditary fructose intolerance and Galactosemia, the possible causes of post prandial reactive hypoglycemia (PRH) include high insulin sensitivity, exaggerated response of insulin and glucagon like peptide 1, defects in counter-regulation, very lean and /or anxious individuals, after massive weight reduction etc.

**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.**

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

\*\*\* End Of Report \*\*\*

  
Dr. SANCHAYAN SINHA  
MBBS, MD, DNB (BIOCHEMISTRY)  
CONSULTANT BIOCHEMIST  
Reg No. WBMC 63214



<b>Lab No.</b>	: BKP/24-02-2024/SR8784839	<b>Lab Add.</b>	: Newtown,Kolkata-700156
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<b>Gender</b>	: M	<b>Report Date</b>	: 24/Feb/2024 03:52PM



### DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Bio Ref. Interval	Unit
<b>GLYCATED HAEMOGLOBIN (HBA1C) , EDTA WHOLE BLOOD</b>			
GLYCATED HEMOGLOBIN (HBA1C)	6.0	***FOR BIOLOGICAL REFERENCE INTERVAL DETAILS , PLEASE REFER TO THE BELOW MENTIONED REMARKS/NOTE WITH ADDITIONAL CLINICAL INFORMATION ***	%
HbA1c (IFCC) (Method:HPLC)	42.0		mmol/mol

#### 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)  
 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.
- 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.  
 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.

#### PDF Attached

<b>LIPID PROFILE , GEL SERUM</b>			
CHOLESTEROL-TOTAL (Method:Enzymatic)	239	Desirable: < 200 mg/dL Borderline high: 200-239 mg/dL High: > or =240 mg/dL	mg/dL
TRIGLYCERIDES (Method:GPO-Trinder)	<b>170</b>	Normal:: < 150, BorderlineHigh::150-199, High:: 200-499, VeryHigh::>500	mg/dL
HDL CHOLESTEROL (Method:Elimination/catalase)	<b>36</b>	< 40 - Low 40-59- Optimum 60 - High	mg/dl
LDL CHOLESTEROL DIRECT (Method:Elimination / Catalase)	<b>186</b>	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	mg/dL
VLDL (Method:Calculated)	17	< 40 mg/dl	mg/dl

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**DEPARTMENT OF BIOCHEMISTRY**

Test Name	Result	Bio Ref. Interval	Unit
CHOL HDL Ratio (Method:Calculated)	6.6	LOW RISK 3.3-4.4 AVERAGE RISK 4.47-7.1 MODERATE RISK 7.1-11.0 HIGH RISK >11.0	

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.

<b>SGPT/ALT</b> (Method:Modified IFCC)	<b>54</b>	7-40	U/L
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<b>TOTAL PROTEIN [BLOOD] ALB:GLO RATIO , .</b>			
TOTAL PROTEIN (Method:BIURET METHOD)	7.60	5.7-8.2 g/dL	g/dL
ALBUMIN (Method:BCG Dye Binding)	4.5	3.2-4.8 g/dL	g/dL
GLOBULIN (Method:Calculated)	3.10	1.8-3.2	g/dl
AG Ratio (Method:Calculated)	1.45	1.0-2.5	

\*\*\* End Of Report \*\*\*

**DR. ANANNYA GHOSH**  
MBBS, MD (Biochemistry)  
Consultant Biochemist  
Reg No. WBMC 73007



<b>Lab No.</b> : BKP/24-02-2024/SR8784839	<b>Lab Add.</b> : Newtown,Kolkata-700156
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<b>Age</b> : 34 Y 4 M 11 D	<b>Collection Date</b> : 24/Feb/2024 10:17AM
<b>Gender</b> : M	<b>Report Date</b> : 24/Feb/2024 02:49PM

**DEPARTMENT OF HAEMATOLOGY**

Test Name	Result	Bio Ref. Interval	Unit
<b>BLOOD GROUP ABO+RH [GEL METHOD] , EDTA WHOLE BLOOD</b>			
ABO (Method:Gel Card)	B		
RH (Method:Gel Card)	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.

<b>CBC WITH PLATELET (THROMBOCYTE) COUNT , EDTA WHOLE BLOOD</b>			
HEMOGLOBIN (Method:PHOTOMETRIC)	14.7	13 - 17	g/dL
WBC (Method:DC detection method)	6.0	4 - 10	*10 <sup>3</sup> /μL
RBC (Method:DC detection method)	5.22	4.5 - 5.5	*10 <sup>6</sup> /μL
PLATELET (THROMBOCYTE) COUNT (Method:DC detection method/Microscopy)	166	150 - 450*10 <sup>3</sup>	*10 <sup>3</sup> /μL
<b><u>DIFFERENTIAL COUNT</u></b>			
NEUTROPHILS (Method:Flowcytometry/Microscopy)	59	40 - 80 %	%
LYMPHOCYTES (Method:Flowcytometry/Microscopy)	30	20 - 40 %	%
MONOCYTES (Method:Flowcytometry/Microscopy)	08	2 - 10 %	%
EOSINOPHILS (Method:Flowcytometry/Microscopy)	02	1 - 6 %	%
BASOPHILS (Method:Flowcytometry/Microscopy)	<b>01</b>	0-0.9%	%
<b><u>CBC SUBGROUP</u></b>			
HEMATOCRIT / PCV (Method:Calculated)	44.5	40 - 50 %	%
MCV (Method:Calculated)	85.1	83 - 101 fl	fl
MCH (Method:Calculated)	28.2	27 - 32 pg	pg
MCHC (Method:Calculated)	33.1	31.5-34.5 gm/dl	gm/dl
RDW - RED CELL DISTRIBUTION WIDTH (Method:Calculated)	<b>15.7</b>	11.6-14%	%
PDW-PLATELET DISTRIBUTION WIDTH (Method:Calculated)	23.2	8.3 - 25 fL	fL
MPV-MEAN PLATELET VOLUME (Method:Calculated)	12.4	7.5 - 11.5 fl	

<b>ESR (ERYTHROCYTE SEDIMENTATION RATE) , EDTA WHOLE BLOOD</b>			
1stHour (Method:Westergren)	20	0.00 - 20.00 mm/hr	mm/hr

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<b>Age</b>	: 34 Y 4 M 11 D	<b>Collection Date</b>	: 24/Feb/2024 10:17AM
<b>Gender</b>	: M	<b>Report Date</b>	: 24/Feb/2024 02:49PM



**DEPARTMENT OF HAEMATOLOGY**

Test Name	Result	Bio Ref. Interval	Unit
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\*\*\* End Of Report \*\*\*

MD (PATHOLOGY)  
CONSULTANT PATHOLOGIST  
Reg No. WBMC 66405

Lab No. : BKP/24-02-2024/SR8784839  
Patient Name : SNIGDHENDU PRAMANIK  
Age : 34 Y 4 M 11 D  
Gender : M

Lab Add. :  
Ref Dr. : Dr.MEDICAL OFFICER  
Collection Date :  
Report Date : 24/Feb/2024 03:25PM



**DEPARTMENT OF RADIOLOGY**

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

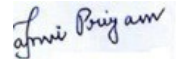
**FINDINGS :**

No active lung parenchymal lesion is seen.  
Both the hila are normal in size, density and position.  
Mediastinum is central. 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.

\*\*\* End Of Report \*\*\*

  
Dr. Tanvi Priyam  
MBBS, MD Radio-Diagnosis  
WB 81485





<b>Lab No.</b>	: BKP/24-02-2024/SR8784839	<b>Lab Add.</b>	: Newtown,Kolkata-700156
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<b>Age</b>	: 34 Y 4 M 11 D	<b>Collection Date</b>	: 24/Feb/2024 10:47AM
<b>Gender</b>	: M	<b>Report Date</b>	: 24/Feb/2024 03:19PM



### DEPARTMENT OF CLINICAL PATHOLOGY

Test Name	Result	Bio Ref. Interval	Unit
<b>URINE ROUTINE ALL, ALL , URINE</b>			
<b><u>PHYSICAL EXAMINATION</u></b>			
COLOUR	PALE YELLOW		
APPEARANCE	SLIGHTLY HAZY		
<b><u>CHEMICAL EXAMINATION</u></b>			
pH (Method:Dipstick (triple indicator method))	7.0	4.6 - 8.0	
SPECIFIC GRAVITY (Method:Dipstick (ion concentration method))	1.010	1.005 - 1.030	
PROTEIN (Method:Dipstick (protein error of pH indicators)/Manual)	NOT DETECTED	NOT DETECTED	
GLUCOSE (Method:Dipstick(glucose-oxidase-peroxidase method)/Manual)	NOT DETECTED	NOT DETECTED	
KETONES (ACETOACETIC ACID, ACETONE) (Method:Dipstick (Legals test)/Manual)	NOT DETECTED	NOT DETECTED	
BLOOD (Method:Dipstick (pseudoperoxidase reaction))	NOT DETECTED	NOT DETECTED	
BILIRUBIN (Method:Dipstick (azo-diazo reaction)/Manual)	NEGATIVE	NEGATIVE	
UROBILINOGEN (Method:Dipstick (diazonium ion reaction)/Manual)	NEGATIVE	NEGATIVE	
NITRITE (Method:Dipstick (Griess test))	NEGATIVE	NEGATIVE	
LEUCOCYTE ESTERASE (Method:Dipstick (ester hydrolysis reaction))	NEGATIVE	NEGATIVE	
<b><u>MICROSCOPIC EXAMINATION</u></b>			
LEUKOCYTES (PUS CELLS) (Method:Microscopy)	1-2	0-5	/hpf
EPITHELIAL CELLS (Method:Microscopy)	0-1	0-5	/hpf
RED BLOOD CELLS (Method:Microscopy)	NOT DETECTED	0-2	/hpf
CAST (Method:Microscopy)	NOT DETECTED	NOT DETECTED	
CRYSTALS (Method:Microscopy)	NOT DETECTED	NOT DETECTED	
BACTERIA (Method:Microscopy)	NOT DETECTED	NOT DETECTED	
YEAST (Method:Microscopy)	NOT DETECTED	NOT DETECTED	

**Note:**

- All urine samples are checked for adequacy and suitability before examination.
- Analysis by urine analyzer of dipstick is based on reflectance photometry principle. Abnormal results of chemical examinations are confirmed by manual methods.
- The first voided morning clean-catch midstream urine sample is the specimen of choice for chemical and microscopic analysis.
- Negative nitrite test does not exclude urinary tract infections.
- Trace proteinuria can be seen in many physiological conditions like exercise, pregnancy, prolonged recumbency etc.
- 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.
- 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.
- Contamination from perineum and vaginal discharge should be avoided during collection, which may falsely elevate epithelial cell count and show presence of bacteria

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**DEPARTMENT OF CLINICAL PATHOLOGY**

Test Name	Result	Bio Ref. Interval	Unit
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and/or yeast in the urine.

\*\*\* End Of Report \*\*\*

MD (PATHOLOGY)  
CONSULTANT PATHOLOGIST  
Reg No. WBMC 66405

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Patient Name : SNIGDHENDU PRAMANIK  
Age : 34 Y 4 M 11 D  
Gender : M

Lab Add. :  
Ref Dr. : Dr.MEDICAL OFFICER  
Collection Date :  
Report Date : 24/Feb/2024 01:42PM



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

DATA	
HEART RATE	67 Bpm
PR INTERVAL	134 Ms
QRS DURATION	96 Ms
QT INTERVAL	378 Ms
QTC INTERVAL	402 Ms
AXIS	
P WAVE	33 Degree
QRS WAVE	26 Degree
T WAVE	12 Degree
IMPRESSION	: <b>Resting ECG within normal limits.</b>

Dr. Siddhartha Kundu  
MBBS, PG Diploma in Clinical Cardiology  
Associate Consultant Cardiology, Critical Care

**Patient Data**

Sample ID: D02135576526  
 Patient ID: SR8784839  
 Name: SNIGDHENDU PRAM  
 Physician:  
 Sex: M  
 DOB:

**Analysis Data**

Analysis Performed: 24/FEB/2024 15:41:38  
 Injection Number: 5326  
 Run Number: 68  
 Rack ID:  
 Tube Number: 9  
 Report Generated: 24/FEB/2024 15:47:29  
 Operator ID: TRISHA

Comments:

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
A1a	---	1.0	0.161	23339
A1b	---	1.9	0.229	45102
LA1c	---	1.8	0.403	41660
A1c	6.0	---	0.507	118246
P3	---	3.6	0.785	83549
P4	---	1.3	0.865	31169
Ao	---	85.4	0.985	1998806

Total Area: 2,341,871

**HbA1c (NGSP) = 6.0 %**      HbA1c (IFCC) = 42 mmol/mol

