



MC-2176

Lab No. : SG2/06-02-2023/SR7261958
Patient Name : PRANAY PRADHAN
Age : 38 Y 7 M 11 D
Gender : M

Lab Add. : Sevoke Road, Siliguri 734001
Ref Dr. : Dr.SELF .
Collection Date: 06/Feb/2023 11:26AM
Report Date : 06/Feb/2023 05:40PM



Test Name	Result	Unit	Bio Ref. Interval	Method
ALKALINE PHOSPHATASE , GEL SERUM				
ALKALINE PHOSPHATASE	103.57	U/L	46 - 116 U/L	P-NPP,AMP BUFFER
SGOT/AST , GEL SERUM				
SGOT/AST	76.27	U/L	15 - 37 U/L	UV WITH P5P
*POTASSIUM, BLOOD , GEL SERUM				
POTASSIUM,BLOOD	4.00	mEq/L	3.5 - 5.1 mEq/L	ISE INDIRECT
CREATININE, BLOOD , GEL SERUM				
CREATININE, BLOOD	1.14	mg/dl	0.70 - 1.30 mg/dl	ALKALINE PICRATE
PHOSPHORUS-INORGANIC, BLOOD , GEL SERUM				
PHOSPHORUS-INORGANIC,BLOOD	3.1	mg/dl	2.5-4.5 mg/dl	UV PHOSPHOMOLYBDATE
URIC ACID, BLOOD , GEL SERUM				
URIC ACID,BLOOD	9.08	mg/dl	3.5 -- 7.2 mg/dl	URICASE ,COLORIMETRIC
THYROID PANEL (T3, T4, TSH) , GEL SERUM				
T3-TOTAL (TRI IODOTHYRONINE)	1.31	ng/ml	0.60-1.81 ng/ml	CLIA
T4-TOTAL (THYROXINE)	7.7	µg/dL	3.2-12.6 µg/dL	CLIA
TSH (THYROID STIMULATING HORMONE)	1.93	µIU/mL	0.55-4.78 µIU/mL	CLIA

BIOLOGICAL REFERENCE INTERVAL : [ONLY FOR PREGNANT MOTHERS]

Trimester specific TSH LEVELS during pregnancy:

FIRST TRIMESTER : 0.10 2.50 µ IU/mL
SECOND TRIMESTER : 0.20 3.00 µ IU/mL
THIRD TRIMESTER : 0.30 3.00 µ IU/mL

References :

1. Indian Thyroid Society guidelines for management of thyroid dysfunction during pregnancy. Clinical Practice Guidelines, New Delhi: Elsevier; 2012.
2. Stagnaro-Green A, Abalovich M, Alexander E, Azizi F, Mestman J, Negro R, et al. Guidelines of the American Thyroid Association for the Diagnosis and Management of Thyroid Disease During Pregnancy and Postpartum. Thyroid 2011;21: 1081-25.
3. Dave A, Maru L, Tripathi M. Importance of Universal screening for thyroid disorders in first trimester of pregnancy. Indian J Endocr Metab [serial online] 2014 [cited 2014 Sep 25]; 18: 735-8. Available from: <http://www.ijem.in/text.asp?2014/18/5/735/139221>.

BILIRUBIN (DIRECT) , GEL SERUM

BILIRUBIN (DIRECT) **0.28** mg/dL < 0.2 mg/dl DIAZOTIZATION

***CHLORIDE, BLOOD , .**

CHLORIDE,BLOOD 104.00 mEq/L 98 - 107 mEq/L ISE INDIRECT



MC-2176

Lab No. : SR7261958 Name : PRANAY PRADHAN Age/G : 38 Y 7 M 11 D / M Date : 06-02-2023

CALCIUM, BLOOD

CALCIUM,BLOOD 8.65 mg/L 8.6-10.0 mg/dl OCP

***SODIUM, BLOOD , GEL SERUM**

SODIUM,BLOOD 141.00 mEq/L 136 - 145 mEq/L ISE INDIRECT

GLUCOSE, FASTING , BLOOD, NAF PLASMA

GLUCOSE,FASTING 93 mg/dl 70 - 100 mg/dL Hexokinase Method

LIPID PROFILE , GEL SERUMCHOLESTEROL-TOTAL 106.92 mg/dl Desirable: < 200 mg/dL CHOLESTEROL OXIDASE,
Borderline high: 200-239 High: > 240 mg/dL ESTERASE,PEROXIDASETRIGLYCERIDES 134.30 mg/dl NORMAL < 150 BORDERLINE HIGH 150-199 HIGH 200-499 ENZYMATIC, END POINT
VERY HIGH > 500HDL CHOLESTEROL 35.29 mg/dl NO RISK : >60 mg/dL, DIRECT MEASURE-PEG
MODERATE RISK : 40-60 mg/dL,
HIGH RISK : <40 mg/dLLDL CHOLESTEROL DIRECT 53.0 mg/dl OPTIMAL : <100 mg/dL, Near DIRECT MEASURE
optimal/ above optimal : 100-129 mg/dL, Borderline high : 130-159 mg/dL, High : 160-189 mg/dL,
Very high : >=190 mg/dL

VLDL 19 mg/dl < 40 mg/dl Calculated

CHOL HDL Ratio 3.0 LOW RISK 3.3-4.4 AVERAGE RISK 4.47-7.1 MODERATE RISK 7.1-11.0 HIGH RISK >11.0 Calculated

SGPT/ALT , GEL SERUM

SGPT/ALT 190.35 U/L 16 - 63 U/L UV WITH P5P

***GLYCATED HAEMOGLOBIN (HBA1C) , EDTA WHOLE BLOOD**GLYCATED HEMOGLOBIN (HBA1C) 5.3 % ***FOR BIOLOGICAL
REFERENCE INTERVAL
DETAILS , PLEASE REFER TO
THE BELOW MENTIONED
REMARKS/NOTE WITH
ADDITIONAL CLINICAL
INFORMATION ***

HbA1c (IFCC) 34.0 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)
Diabetics-HbA1c level : >/= 6.5% (NGSP) / > 48 mmol/mol (IFCC)**Analyzer used : Bio-Rad-VARIANT TURBO 2.0, Bio-Rad D 10****Method : HPLC Cation Exchange****HbA1C : DUAL REPORTING OF UNITS Ref 2,3,4**

Suraksha Diagnostic Pvt. Ltd. has commenced reporting HbA1c in dual units. This is in keeping with current International recommendations to allow a transition phase from current reporting units (%) to the eventual (IFCC) units (mmol/mol). It is anticipated that only IFCC units will be used after 2 years of dual reporting. Please note that the method of analysis has not changed. Although the two results look numerically different, they are clinically equivalent. In defining HbA1C, the unit mmol /mol was determined to be the most accurate description of what is being measured. This will make the measurement more precise and allow for better comparisons of HbA1c results from different laboratories and hospitals throughout the world.

Standardization & traceability Ref 2,3,4

HbA1c is standardized & traceable to IFCC methods HPLC-CE & HPLC-MS. This new unit (mmol/mol) is used as part of this standardization. This change in HbA1c calibration is to conform to national & international best practice. The initiative will mean that HbA1c is measured specifically & reproducibly. It also enables the use of international reference ranges & harmonization of medical decision or target values.

Recommendations for glycemic targets Ref 1

- 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 more or less stringent.

Lab No. : SG2/06-02-2023/SR7261958

Page 2 of 9



Lab No. : SR7261958 Name : PRANAY PRADHAN Age/G : 38 Y 7 M 11 D / M Date : 06-02-2023

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 B₁₂/ 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.
3. Geistanger A, Arends S, Berding C, Hoshino T, Jeppsson J-O, Little R, Siebelder C and Weykamp C, on behalf of the IFCC Working Group on Standardization of HbA1c: Statistical Methods for Monitoring the Relationship between the IFCC Reference Measurement Procedure for Hemoglobin A1c. Clin Chem 2008; 54(8): 1379-8.
4. International Expert Committee Report, drawn from the International Diabetes Federation (IDF), the European Association for the Study of Diabetes (EASD), American Diabetes Association (ADA), International Federation of Clinical Chemistry and Laboratory Medicine, International Society for Pediatric & Adolescent Diabetes. International Congress - IFCC, WorldLab, EuroMedLab- Berlin, 2011.

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 B₁₂/ 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.

TOTAL PROTEIN [BLOOD] ALB:GLO RATIO , .

TOTAL PROTEIN	8.26	g/dL	6.6 - 8.7 g/dL	BIURET METHOD
ALBUMIN	4.2	g/dl	3.4 - 5.0 g/dl	BCP
GLOBULIN	4.06	g/dl	1.8-3.2 g/dl	Calculated
AG Ratio	1.03		1.0 - 2.5	Calculated

BILIRUBIN (TOTAL) , GEL SERUM

BILIRUBIN (TOTAL)	1.35	mg/dL	0.2 - 1.2 mg/dL	DIAZONIUM ION
-------------------	-------------	-------	-----------------	---------------

UREA,BLOOD

UREA,BLOOD	29.0	mg/dl	12.8-42.8 mg/dl	UREASE-COLORIMETRIC
------------	------	-------	-----------------	---------------------



Lab No. : SR7261958

Name : PRANAY PRADHAN

Age/G : 38 Y 7 M 11 D / M

Date : 06-02-2023

DR. SANJAY KR. AGARWALA
MD CONSULTANT BIOCHEMIST



MC-2176

Lab No. : SR7261958 Name : PRANAY PRADHAN Age/G : 38 Y 7 M 11 D / M Date : 06-02-2023

ESR (ERYTHROCYTE SEDIMENTATION RATE) , EDTA WHOLE BLOOD

1stHour 04 mm/hr 0.00 - 20.00 mm/hr Westergren

BLOOD GROUP ABO+RH [GEL METHOD] , EDTA WHOLE BLOODABO A Gel Card
RH POSITIVE Gel Card**Gel technology Dia Med ID Micro typing system is the latest technology in transfusion Medicine.****It gives more reproducible and standardized test results.****It more rapid, reliable, very sensitive and objective , and hence more consistent and comparable results are obtained.****Single used cards are individualised for every patient and results can be photographed / scanned and stored for future use.****Special instruments that are used only for this technology also reduce risk of any contamination.****Ref:- WHO technical manual on transfusion medicine-Second Edition 2003****(RESULTS ALSO VERIFIED BY : FORWARD AND REVERSE GROUPING (TUBE AND SLIDE METHOD)**

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.

□

DR. BARNALI PAUL
MBBS, MD(PATH)



Lab No. : SG2/06-02-2023/SR7261958
Patient Name : PRANAY PRADHAN
Age : 38 Y 7 M 11 D
Gender : M

Lab Add. :
Ref Dr. : Dr.SELF .
Collection Date:
Report Date : 06/Feb/2023 02:11PM

DEPARTMENT OF CARDIOLOGY REPORT OF E.C.G.

HEART RATE : 65 /min.
RHYTHM : Regular sinus.
P-WAVE : Normal
P - R INTERVAL : 160 ms,
QRS DURATION : 80 ms
QRS CONFIGURATION : NORMAL
QRS VOLTAGE : R/S in V1 2/8 mm.
R/S in V6 5/1 mm.
QRS AXIS : +30°
Q- Waves : No significant Q-wave.
QT TIME : Normal.
ST SEGMENT : Normal.
T WAVE : NORMAL
ROTATION : Normal.
OTHER FINDINGS : Nil.
IMPRESSION : ECG WITHIN NORMAL LIMIT.


Dr. ARABINDA SAHA (MD,DM)
CONSULTANT CARDIOLOGIST

Lab No. : SG2/06-02-2023/SR7261958
Patient Name : PRANAY PRADHAN
Age : 38 Y 7 M 11 D
Gender : M

Lab Add. :
Ref Dr. : Dr.SELF .
Collection Date:
Report Date : 06/Feb/2023 03:06PM



DEPARTMENT OF RADIOLOGY
X-RAY REPORT OF CHEST (PA)

FINDINGS:

- Cardiac size appears within normal limits. Margin is well visualised and cardiac silhouette is smoothly outlined. Shape is within normal limit.
- Lung parenchyma shows no focal lesion. No general alteration of radiographic density. Apices are clear. Bronchovascular lung markings are within normal.
- Lateral costo-phrenic angles are clear.
- Domes of diaphragm are smoothly outlined. Position is within normal limits.

IMPRESSION :

Normal study.

DR. Ziaul Mustafa
MD, Radiodiagnosis

Lab No. : SG2/06-02-2023/SR7261958
Patient Name : PRANAY PRADHAN
Age : 38 Y 7 M 11 D
Gender : M

Lab Add. :
Ref Dr. : Dr.SELF .
Collection Date:
Report Date : 09/Feb/2023 04:55PM



DEPARTMENT OF ULTRASONOGRAPHY

REPORT ON EXAMINATION OF WHOLE ABDOMEN

LIVER

Liver is normal in size (148 mm) having normal shape, regular smooth outline and of homogeneous echotexture. **Right lobe shows tiny focal calcification.** 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 with no intraluminal pathology (Calculi /mass) could be detected at its visualised part. Portal vein is normal at porta.

GALL BLADDER

Gallbladder is physiologically distended. Wall thickness appears normal. **Fundal wall shows tiny echogenic foci.** No calculus. Sonographic Murphys sign is negative.

PANCREAS

Echogenicity 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 (126 mm). Homogenous and smooth echotexture without any focal lesion. Splenic vein at hilum appears normal. **Splenenculi at hilum measures 5.9 x 4.2 mm.** No definite collaterals could be detected.

KIDNEYS

Both kidneys are normal in shape, size (Rt. kidney 111 mm. & Lt. kidney 106 mm) axes & position. Cortical echogenicity appears normal maintaining corticomedullary 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

Lab No. : SG2/06-02-2023/SR7261958
Patient Name : PRANAY PRADHAN
Age : 38 Y 7 M 11 D
Gender : M

Lab Add. :
Ref Dr. : Dr.SELF .
Collection Date:
Report Date : 09/Feb/2023 04:55PM



Prostate is normal in size. Echotexture appears within normal limits. No focal alteration of its echogenicity could be detectable.
It measures : 33 x 30 x 31 mm.
Approximate weight could be around = 16 gms.

*** Bilateral iliac fossa shows no collection / inflammatory change / sizeable SOL at present sonologically.**

IMPRESSION

Gall bladder cholesterolosis.

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. Ziaul Mustafa
MD, Radiodiagnosis