







Lab No. : KNK/22-04-2023/SR7554053

Patient Name : RUPA BAIN Age : 28 Y 2 M 25 D

Gender : F

Lab Add. : Newtown, Kolkata-700156

Ref Dr. : Dr.MEDICAL OFFICER
Collection Date: 23/Apr/2023 08:02AM

Report Date : 24/Apr/2023 10:51AM

Test Name Result Unit Bio Ref. Interval Method

PDF Attached

GLYCATED HAEMOGLOBIN (HBA1C), EDTA WHOLE BLOOD

GLYCATED HEMOGLOBIN (HBA1C) 5.

%

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

HbA1c (IFCC) 32.0 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.
- 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_{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.

Dr NEEPA CHOWDHURY MBBS MD (Biochemistry) Consultant Biochemist



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*POTASSIUM, BLOOD , GEL SERUM				
POTASSIUM,BLOOD	4.80	mEq/L	3.5 - 5.5 mEq/L	ISE DIRECT
*SODIUM, BLOOD , GEL SERUM				
SODIUM,BLOOD	138	mEq/L	136 - 145 mEq/L	ISE DIRECT
UREA,BLOOD , GEL SERUM	26.0	mg/dL	19 - 49 mg/dL	Urease with GLDH
*CBC WITH PLATELET (THROMBOCYTE)	COUNT , EDTA W	HOLE BLOOD		
HEMOGLOBIN	10.8	g/dL	12 - 15	PHOTOMETRIC
WBC	4.2	*10^3/µL	4 - 10	DC detection method
RBC	3.68	*10^6/µL	3.8 - 4.8	DC detection method
PLATELET (THROMBOCYTE) COUNT	150	*10^3/µL	150 - 450*10^3/µL	DC detection method/Microscopy
DIFFERENTIAL COUNT				
NEUTROPHILS	45	%	40 - 80 %	Flowcytometry/Microscopy
LYMPHOCYTES	49	%	20 - 40 %	Flowcytometry/Microscopy
MONOCYTES	04	%	2 - 10 %	Flowcytometry/Microscopy
EOSINOPHILS	02	%	1 - 6 %	Flowcytometry/Microscopy
BASOPHILS	00	%	0-0.9%	Flowcytometry/Microscopy
CBC SUBGROUP				
HEMATOCRIT / PCV	32.8	%	36 - 46 %	Calculated
MCV	89.0	fl	83 - 101 fl	Calculated
MCH	29.2	pg	27 - 32 pg	Calculated
MCHC	32.8	gm/dl	31.5-34.5 gm/dl	Calculated
RDW - RED CELL DISTRIBUTION WIDTH	14.8	%	11.6-14%	Calculated
PDW-PLATELET DISTRIBUTION WIDTH	25.4	fL	8.3 - 25 fL	Calculated
MPV-MEAN PLATELET VOLUME	11.7		7.5 - 11.5 fl	Calculated
*CALCIUM, BLOOD				
CALCIUM,BLOOD	9.20	mg/dL	8.7-10.4 mg/dL	Modified OCPC
*BLOOD GROUP ABO+RH [GEL METHOD), EDTA WHOLE	BLOOD		
ABO	В			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.

Historical records check not performed.

*LIPID PROFILE, GEL SERUM

CHOLESTEROL-TOTAL	165	mg/dL	Desirable: < 200 mg/dL CHOD - PAP
			Borderline high: 200-239 mg/dL
			High: > or =240 mg/dL
TRIGLYCERIDES	86	mg/dL	Normal:: < 150, ENZYMATIC (END POINT)
			BorderlineHigh::150-199, High::
			200-499, VeryHigh::>500

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HDL CHOLESTEROL	36	mg/dl	< 40 - Low 40-59- Optimum 60 - High	ENZYMATIC (PEG)
LDL CHOLESTEROL DIRECT	115	mg/dL	OPTIMAL: <100 mg/dL, Near optimal/ above optimal: 100-129 mg/dL, Borderline high: 130-150 mg/dL, High: 160-189 mg/dL, Very high :>=190 mg/dL	9
VLDL	14	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
CREATININE, BLOOD	0.75	mg/dL	0.5-1.1 mg/dL	Jaffe, alkaline picrate, kinetic
GLUCOSE, FASTING , BLOOD, NAF PLA	SMA			
GLUCOSE,FASTING	100	mg/dL	Impaired Fasting-100-125 mg/dL Diabetes- >= 126 mg/dL. Fasting is defined as no caloric intake for at least 8 hours.	Hexokinase Method
*ESR (ERYTHROCYTE SEDIMENTATIO	ON RATE) , EDTA WHOLI	E BLOOD		
1stHour	86	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	6		4.8 - 7.4	DIPSTICK
SPECIFIC GRAVITY	1.020		1.016-1.022	DIPSTICK
PROTEIN	NOT DETECTED		NOT DETECTED	DIPSTICK(Protein Error
GLUCOSE	NOT DETECTED		NOT DETECTED	Principle)/MANUAL DIPSTICK (Glucose Oxidase peroxidase)/ MANUAL
KETONES (ACETOACETIC ACID, ACETONE)	NOT DETECTED		NOT DETECTED	Dipstick (Legals test)/Manual
BLOOD	NEGATIVE		NOT DETECTED	DIPSTICK(Pseudo Peroxidase Method)
BILIRUBIN	ABSENT		NEGATIVE	DIPSTICK(Azo-Diazo Reaction)/MANUAL
UROBILINOGEN	NOT DETECTED		NORMAL	DIPSTICK(Diazonium Ion Reaction)/MANUAL
NITRITE	NEGATIVE		NEGATIVE	DIPSTICK(GRIESS TEST)
LEUCOCYTE ESTERASE	NEGATIVE		NEGATIVE	DIPSTICK
MICROSCOPIC EXAMINATION				
LEUKOCYTES (PUS CELLS)	1 - 2	/hpf	0-5	Microscopy
EPITHELIAL CELLS	0 - 2	/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
OTHERS	NIL			

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.

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- 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.

*GLUCOSE, PP, BLOOD, NAF PLASMA

GLUCOSE,PP 88 mg/dL Impaired Glucose Tolerance-140 Hexokinase Method mg/dL to 199 mg/dL.

Diabetes>= 200 mg/dL.

*THYROID PANEL (T3, T4, TSH), GEL SERUM

T3-TOTAL (TRI IODOTHYRONINE)	1.29	ng/ml	0.60-1.81 ng/ml	CLIA
T4-TOTAL (THYROXINE)	9.7	μg/dL	3.2-12.6 μg/dL	CLIA
TSH (THYROID STIMULATING HORMONE)	3.11	μIU/mL	0.35-5.5 μIU/mL	CLIA

BIOLOGICAL REFERENCE INTERVAL: [ONLY FOR PREGNANT MOTHERS]

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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.

*CHLORIDE, BLOOD , .

CHLORIDE,BLOOD	103	IIILY/L	70 - 107 IIILY/L	ISL DIRECT
*TOTAL PROTEIN [BLOOD] ALB	B:GLO RATIO , .			
TOTAL PROTEIN	7.70	g/dL	5.7-8.2 g/dL	BIURET METHOD
ALBUMIN	3.9	g/dL	3.2-4.8 g/dL	BCG Dye Binding
GLOBULIN	3.80	g/dl	1.8-3.2 g/dl	Calculated
AG Ratio	1.03		1.0 - 2.5	Calculated
*URIC ACID, BLOOD , GEL SERU	IM			
ORIC ACID, BLOOD , GEL SENC) IVI			
URIC ACID,BLOOD	3.90	mg/dL	2.6-6 mg/dL	URICASE

DR. SHABNAM PARVIN MD (Pathology) Consultant Pathologist

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98 - 107 mFa/l



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PHOSPHORUS-INORGANIC, BLOOD, GEL SERUM

PHOSPHORUS-INORGANIC,BLOOD 4.7 mg/dL 2.4-5.1 mg/dL Phosphomolybdate/UV

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

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Patient Name : RUPA BAIN Ref Dr. : Dr.MEDICAL OFFICER

Age : 28 Y 2 M 25 D

Gender : F **Report Date** : 22/Apr/2023 02:59PM



DEPARTMENT OF CARDIOLOGY REPORT OF E.C.G.

Lab Add.

Collection Date:

DATA HEART RATE	58	Rnm
MEAKI KAIE	38	Bpm
PR INTERVAL	144	Ms
QRS DURATION	80	Ms
QT INTERVAL	378	Ms
QTC INTERVAL	374	Ms
AXIS		
P WAVE	39	Degree
QRS WAVE	50	Degree
T WAVE IMPRESSION	47 :	Degree Sinus bradycardia, early repolarization
IIVII KLJJIOIV		changes in infero-lateral leads.

Dr. A C RAY

Department of Non-invasive Cardiology

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Patient Name : RUPA BAIN Ref Dr. : Dr.MEDICAL OFFICER

Age: 28 Y 2 M 25 DCollection Date:

Gender : F **Report Date** : 23/Apr/2023 02:56PM



X-RAY REPORT OF CHEST (PA) VIEW

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.

DR. VIMLESH JI VIMAL MBBS (Cal) MD, DMRD(IPGME & R) Consultant Radiologist Reg No 61436

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Patient Name : RUPA BAIN Ref Dr. : Dr.MEDICAL OFFICER

Age : 28 Y 2 M 25 D Collection Date:

Gender : F **Report Date** : 23/Apr/2023 10:49AM



ULTRASONOGRAPHY OF WHOLE ABDOMEN

LIVER: Normal in shape, size (12.47 cm) and parenchyma echotexture. No focal lesion of altered echogenecity is seen. Intrahepatic biliary radicles are not dilated. The portal vein branches and hepatic veins are normal.

<u>GALL BLADDER</u>: Well distended; wall thickness is normal. **Multiple calculi are noted in Gall Bladder lumen, largest one measure 1.99 cm.** No pericholecystic collection or mass formation is noted.

PORTA HEPATIS: The portal vein is normal in caliber with clear lumen. The common bile duct is normal in caliber. Visualized lumen is clear.

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

<u>SPLEEN</u>: It is enlarged in size (12.66 cm) and normal 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 echogenecity and thickness are normal with normal cortico-medullary differentiation in both kidneys. **One tiny calculus (0.34 cm) is seen at middle calyx of left kidney**. No hydronephrosis or mass noted. The perinephric region shows no abnormal fluid collection.

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

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

<u>UTERUS</u>: It is normal in shape, size and echopattern. Endometrial and myometrial echotexture are within normal. No focal SOL is seen. Cervix is normal.

<u>OVARIES</u>: Both the ovaries are bulky in size and containing multiple follicles of varying sizes & arranged peripherally with central hyperechoic, hypertrophied stroma --- Suggesive of polycystic ovarian changes.

Right Ovary volume: 15.80 cc.

Left Ovary volume: 23.34 cc.

ADNEXA: No adnexal SOL is noted.

POD: Fluid collection is seen.

IMPRESSION:

- Cholelithiasis.
- · Splenomegaly.
- · Left renal tiny calculus.
- Bulky & polycystic morphology ovaries.
- Collection in Pouch of Douglas.

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Kindly note

Ø Ultrasound is not the modality of choice to rule out subtle bowel lesion.

Ø Please Intimate us for any typing mistakes and send the report for correction within 7 days.

Ø 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.

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DR. VIMLESH JI VIMAL MBBS (Cal) MD, DMRD(IPGME & R) Consultant Radiologist Reg No 61436

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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: D02135101213 Analysis Performed: 23/APR/2023 16:21:43

 Patient ID:
 SR7554053
 Injection Number:
 2240U

 Name:
 Run Number:
 50

 Physician:
 Rack ID:
 0002

 Sex:
 Tube Number:
 8

DOB: Report Generated: 23/APR/2023 16:27:33

Operator ID: ANAMIKA

Comments:

	NGSP		Retention	Peak
Peak Name	%	Area %	Time (min)	Area
A1a		1.0	0.158	25576
A1b		0.7	0.219	18652
F		0.7	0.270	17447
LA1c		1.7	0.395	43238
A1c	5.1		0.500	104015
P3		3.1	0.786	79962
P4		1.1	0.863	27868
Ao		87.5	0.979	2221840

Total Area: 2,538,597

HbA1c (NGSP) = 5.1 % HbA1c (IFCC) = 32 mmol/mol

