

Diagnostics & Speciality Centre

NAME : Mr. GANESH NAYAK	MR NO. : 210414226
AGE/SEX : 33 Yrs / Male	VISIT NO. : 159763
REFERRED BY :	DATE OF COLLECTION : 04-08-2022 at 08:51 AM
	DATE OF REPORT : 04-08-2022 at 12:01 PM
REF CENTER : MEDIWHEEL	

TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
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HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC) WITH ESR

HAEMOGLOBIN <i>Colorimetric Method</i>	15.8 gm/dL	13 - 18 gm/dL
HEMATOCRIT (PCV) <i>Calculated</i>	44.8 %	40 - 54 %
RED BLOOD CELL (RBC) COUNT <i>Electrical Impedance</i>	5.0 million/cu.mm	4.5 - 5.9 million/cu.mm
PLATELET COUNT <i>Electrical Impedance</i>	2.6 Lakhs/cumm	1.5 - 4.5 Lakhs/cumm
MEAN CELL VOLUME (MCV) <i>Calculated</i>	89.4 fl	80 - 100 fl
MEAN CORPUSCULAR HEMOGLOBIN (MCH) <i>Calculated</i>	31.5 pg	26 - 34 pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) <i>Calculated</i>	35.2 %	31 - 35 %
TOTAL WBC COUNT (TC) <i>Electrical Impedance</i>	8000 cells/cumm	4000 - 11000 cells/cumm
NEUTROPHILS <i>VCS Technology/Microscopic</i>	50 %	40 - 75 %
LYMPHOCYTES <i>VCS Technology/Microscopic</i>	43 %	25 - 40 %
DIFFERENTIAL COUNT		
EOSINOPHILS <i>VCS Technology/Microscopic</i>	01 %	0 - 7 %
MONOCYTES <i>VCS Technology/Microscopic</i>	06 %	1 - 8 %
BASOPHILS <i>Electrical Impedance</i>	00 %	
ESR <i>Westergren Method</i>	10 mm/hr	0 - 15 mm/hr
BLOOD GROUP & Rh TYPING <i>Tube Agglutination (Forward and Reverse)</i>	"O" Positive	

Krishna Murthy



A. Vamseedhar

Dr. KRISHNA MURTHY

MD
BIOCHEMIST

Lab Seal

Dr. VAMSEEDHAR.A

D.C.P, M.D
CONSULTANT PATHOLOGIST

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GLYCATED HAEMOGLOBIN (HbA1C)
HPLC

5.4 %

American Diabetic Association (ADA) recommendations:

Non diabetic adults : <5.7 %

At risk (Pre diabetic): 5.7 – 6.4%

Diabetic : >= 6.5%

Therapeutic goal for glycemic control :

Goal for therapy: < 7.0%

Action suggested: > 8.0%

ESTIMATED AVERAGE GLUCOSE (eAG)

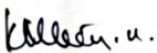
108.28 mg/dL

Calculation

Comments:

This assay is useful for diagnosing Diabetes and evaluating long term control of blood glucose concentrations in diabetic patients. It reflects the mean glucose concentration over the previous period of 8 to 12 weeks and is a better indicator of long term glycemic control as compared with blood and urine glucose measurements. This provides an additional criterion for assessing glucose control because glycated hemoglobin values are free of day-to-day glucose fluctuation and are unaffected by exercise or food ingestion.

After a sudden alteration in blood glucose concentration, the rate of change of HbA1c is rapid during initial 2 months, followed by more gradual change approaching steady state 3 months later.




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CLINICAL BIOCHEMISTRY

BLOOD UREA <i>UREASE-GLUTAMATE DEHYDROGENASE (GLDH)</i>	19.9 mg/dL	15 - 50 mg/dL	
CREATININE <i>Jaffe Kinetic</i>	0.99 mg/dL	0.4 - 1.4 mg/dL	
URIC ACID <i>Uricase-Peroxidase</i>	5.9 mg/dL	3 - 7.2 mg/dL	
SERUM ELECTROLYTES			
SODIUM <i>Ion Selective Electrode (ISE)</i>	138 mmol/L	136 - 145 mmol/L	
POTASSIUM <i>Ion Selective Electrode (ISE)</i>	3.8 mmol/L	3.5 - 5.2 mmol/L	
CHLORIDE <i>Ion Selective Electrode (ISE)</i>	102 mmol/L	97 - 111 mmol/L	

LIVER FUNCTION TEST (LFT)

TOTAL BILIRUBIN <i>Colorimetric Diazo Method</i>	3.41 mg/dL	0.2 - 1.2 mg/dL	
DIRECT BILIRUBIN <i>Colorimetric Diazo Method</i>	1.13 mg/dL	0 - 0.4 mg/dL	
INDIRECT BILIRUBIN <i>Calculation</i>	2.28 mg/dl	0.2 - 0.8 mg/dl	
S G O T (AST) <i>IFCC Without Pyridoxal Phosphates</i>	14.2 U/L	up to 35 U/L	
S G P T (ALT) <i>IFCC Without Pyridoxal Phosphates</i>	12.6 U/L	up to 50 U/L	
ALKALINE PHOSPHATASE <i>p-Nitrophenyl Phosphate</i>	70 U/L	36 - 113 U/L	
SERUM GAMMA GLUTAMYLTRANSFERASE (GGT) <i>GCNA-IFCC</i>	26.2 U/L	15 - 85 U/L	
TOTAL PROTEIN <i>Biuret Colorimetric</i>	6.62 g/dl	6.2 - 8 g/dl	
S.ALBUMIN <i>Bromocresol Green (BCG)</i>	4.61 g/dl	3.5 - 5.2 g/dl	
S.GLOBULIN <i>Calculation</i>	2 g/dl	2.5 - 3.8 g/dl	
A/G RATIO <i>Calculation</i>	2.3	1 - 1.5	

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POST PRANDIAL BLOOD SUGAR <i>Hexokinase</i>	107.3 mg/dl	80 - 150 mg/dl	
CREATININE <i>Jaffe Method</i>	0.99 mg/dL	0.8 - 1.4 mg/dL	

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LIPID PROFILE TEST

TOTAL CHOLESTEROL <i>Cholesterol Oxidase-Peroxidase (CHOD-POD)</i>	198 mg/dL	up to 200 mg/dL Border Line: 200 – 240 mg/dL High: > 240 mg/dL	
TRIGLYCERIDES <i>Glycerol Peroxidase-Peroxidase (GPO-POD)</i>	167.4 mg/dL	up to 150 mg/dL Desirable: <150 mg/dL Border Line: 150 – 200 mg/dL High: >200 – 500 mg/dL Very High: > 500 mg/dL	
HDL CHOLESTEROL - DIRECT <i>PEG-Cholesterol Esterase</i>	44.3 mg/dl	40 - 60 mg/dl >= 60mg/dL - Excellent (protects against heart disease) 40-59 mg/dL - Higher the better <40 mg/dL - Lower than desired (major risk for heart disease)	
LDL CHOLESTEROL - DIRECT <i>Cholesterol Esterase-Cholesterol Oxidase</i>	120.2 mg/dL	up to 100 mg/dL 100-129 mg/dL- Near optimal/above optimal 130-159 mg/dL- Borderline High 160-189 mg/dL- High 190->190 mg/dL - Very High	
VLDL CHOLESTEROL <i>Calculation</i>	33.5 mg/dL	2 - 30 mg/dL	
TOTAL CHOLESTROL/HDL RATIO <i>Calculation</i>	4.5	up to 3.5 3.5-5.0 - Moderate >5.0 - High	
LDL/HDL RATIO <i>Calculation</i>	2.7	up to 2.5 2.5-3.3 - Moderate >3.3 - High	

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FASTING BLOOD SUGAR <i>Hexokinase</i>	98.6 mg/dl	70 - 110 mg/dl	

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC

PHYSICAL EXAMINATION

Colour <i>Visual Method</i>	Pale Yellow	Pale yellow- yellow
Appearance <i>Visual Method</i>	Clear	Clear/Transparent
Specific Gravity <i>Strips Method</i>	1.010	1.005-1.035
pH	7.0	4.6-8.5

CHEMICAL EXAMINATION (DIPSTICK)

Protein <i>Strips Method</i>	Nil	Nil -Trace
Glucose <i>Strips Method</i>	Nil	Nil
Blood <i>Strips Method</i>	Negative	Negative
Ketone Bodies <i>Strips Method</i>	Absent	Negative
Urobilinogen <i>Strips Method</i>	Normal	Normal
Bile Salt <i>Strips Method</i>	Negative	Negative
Bilirubin <i>Strips Method</i>	Negative	Negative
Bile Pigments	Negative	NIL

MICROSCOPY

Pus Cells (WBC) <i>Light Microscopic</i>	2 - 3 /hpf	0-5/hpf
Epithelial Cells <i>Light Microscopic</i>	1 - 2 /hpf	0-4/hpf
RBC <i>Light Microscopic</i>	Not Seen /hpf	0-2/hpf

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Cast <i>Light Microscopic</i>	NIL	NIL	
Crystal <i>Light Microscopic</i>	NIL	Nil	
FASTING URINE SUGAR (FUS)	NIL	NIL	
POSTPRANDIAL URINE SUGAR	NIL	NIL	

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IMMUNOASSAY

THYROID PROFILE

TOTAL TRIIODOTHYRONINE (T3) <small>CMIA</small>	0.96 ng/mL	0.87 - 1.78 ng/mL
TOTAL THYROXINE (T4) <small>CMIA</small>	8.23 µg/dL	6.09 - 12.23 µg/dL
THYROID STIMULATING HORMONE (TSH) <small>CMIA</small>	1.436 µIU/mL	0.38 - 5.33 µIU/mL 1st Trimester: 0.05 - 3.70 2nd Trimester: 0.31 - 4.35 3rd Trimester: 0.41 - 5.18

Note:

- TSH levels are subject to circadian variation, reaching peak levels between 2 - 4 a.m. and at a minimum between 6-10 pm. The variation is of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations.
- Recommended test for T3 and T4 is unbound fraction or free levels as it is metabolically active.
- Physiological rise in Total T3 / T4 levels is seen in pregnancy and in patients on steroid therapy.

Clinical Use:

- Primary Hypothyroidism
- Hyperthyroidism
- Hypothalamic - Pituitary hypothyroidism
- Inappropriate TSH secretion
- Nonthyroidal illness
- Autoimmune thyroid disease
- Pregnancy associated thyroid disorders
- Thyroid dysfunction in infancy and early childhood

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PROSTATIC SPECIFIC ANTIGEN (PSA)

PROSTATIC SPECIFIC ANTIGEN (PSA)
C/MIA

0.32 ng/mL

Up to 4ng/mL: Normal
4-10 ng/mL Hypertrophy &
benign genito urinary
conditions.
>10 ng/mL Suspicious of
malignancy.

PSA is used for monitoring patients with a history of prostate cancer and as an early indicator of recurrence and response to treatment. The test is commonly used for Prostate cancer screening.



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AGE/SEX	: 33 Yrs / Male	BILLED TIME	: 04-08-2022 at 08:36 AM
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RADIOLOGY

USG REPORT - ABDOMEN AND PELVIS

OBSERVATION:

LIVER:

Liver is mildly enlarged in size (16.6 cm) and shows mild diffuse increase in echotexture. No focal lesion is seen. Intrahepatic biliary radicles not dilated. Hepatic & portal veins are normal. CBD is normal.

GALL BLADDER:

Normal in distension. Lumen echo free. Wall thickness is normal.

PANCREAS:

Body and head appears normal. No focal lesion seen. Pancreatic duct not dilated. Tail not visualized.

SPLEEN:

Normal in size (9.0 cm) with normal homogenous echotexture. No focal lesion is seen.

RIGHT KIDNEY:

Right kidney measures 12.9 x 1.3 cm (Length x parenchymal thickness) with normal echo pattern and cortical thickness.

The shape, size and contour of the right kidney appear normal.

Cortical medullary differentiation is maintained.

No evidence of pelvicalyceal dilatation. No sonological detectable calculi seen.

LEFT KIDNEY:

Left kidney measures 11.5 x 1.4 cm (Length x parenchymal thickness) with normal echo pattern and cortical thickness.

The shape, size and contour of the left kidney appear normal.

Cortical medullary differentiation is maintained.

Dr. MOHAN S

MDRD
CONSULTANT RADIOLOGIST

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No evidence of pelvicalyceal dilatation. No sonological detectable calculi seen.

URINARY BLADDER:

Is normal in contour. No intraluminal echoes are seen. No calculus or diverticulum is seen. Wall thickness appears normal.

PROSTATE:

Is normal in size (Vol-21 cc) with normal echo pattern. No focal lesion is seen.

No evidence of free fluid in the abdomen or pelvis.

IMPRESSION:

- **Mild hepatomegaly with grade I fatty changes.**
- **No other significant sonographic abnormality detected.**



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RADIOLOGY

X-RAY CHEST PA VIEW

OBSERVATIONS:

The lung fields are clear bilaterally.

CP angles are clear.

Both the hila appear normal.

Cardiac diameter is within normal limits.

Tracheal is mid line.

Visible bony thoracic cage is normal.

Adjacent soft tissues appear normal.

IMPRESSION:

- **No significant abnormality in the visualized lung fields.**



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RADIOLOGY

X-RAY CHEST PA VIEW

OBSERVATIONS:

The lung fields are clear bilaterally.

CP angles are clear.

Both the hila appear normal.

Cardiac diameter is within normal limits.

Tracheal is mid line.

Visible bony thoracic cage is normal.

Adjacent soft tissues appear normal.

IMPRESSION:

- **No significant abnormality in the visualized lung fields.**

