

NAME : Mr. VENKATARAM K	MR NO. : 22050739
AGE/SEX : 56 Yrs / Male	VISIT NO. : 173915
REFERRED BY :	DATE OF COLLECTION : 13-05-2023 at 08:49 AM
REF CENTER : MEDIWHEEL	DATE OF REPORT : 13-05-2023 at 01:38 PM



TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
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HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC) WITH ESR

Automated Cell Counter

HAEMOGLOBIN <i>Colorimetric Method</i>	15.8 gm/dL	13 - 18 gm/dL
HEMATOCRIT (PCV) <i>Calculated</i>	45.7 %	40 - 54 %
RED BLOOD CELL (RBC) COUNT <i>Electrical Impedance</i>	5.18 million/cu.mm	4.5 - 5.9 million/cu.mm
PLATELET COUNT <i>Electrical Impedance</i>	2.60 Lakhs/cumm	1.5 - 4.5 Lakhs/cumm
MEAN CELL VOLUME (MCV) <i>Calculated</i>	88.2 fl	80 - 100 fl
Note : All normal and abnormal platelet counts are cross checked on peripheral smear.		
MEAN CORPUSCULAR HEMOGLOBIN (MCH) <i>Calculated</i>	30.5 pg	26 - 34 pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) <i>Calculated</i>	34.5 %	31 - 35 %
TOTAL WBC COUNT (TC) <i>Electrical Impedance</i>	8130 cells/cumm	4000 - 11000 cells/cumm
NEUTROPHILS <i>VCS Technology/Microscopic</i>	64 %	40 - 75 %
LYMPHOCYTES <i>VCS Technology/Microscopic</i>	30 %	25 - 40 %
DIFFERENTIAL COUNT		
EOSINOPHILS <i>VCS Technology/Microscopic</i>	02 %	0 - 7 %
MONOCYTES <i>VCS Technology/Microscopic</i>	04 %	1 - 8 %
BASOPHILS <i>Electrical Impedance</i>	00 %	
ESR <i>Westergren Method</i>	09 mm/hr	0 - 15 mm/hr
BLOOD GROUP & Rh TYPING <i>Tube Agglutination (Forward and Reverse)</i>	"O" Positive	

Krishna M.



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CONSULTANT PATHOLOGIST

Diagnostics & Speciality Centre

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GLYCATED HAEMOGLOBIN (HbA1C) <i>HPLC</i>	8.2 %	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%	

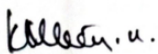
ESTIMATED AVERAGE GLUCOSE (eAG) 188.64 mg/dL

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 a 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.

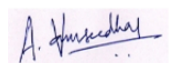


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CLINICAL BIOCHEMISTRY

LIVER FUNCTION TEST (LFT)

Spectrometry

TOTAL BILIRUBIN <i>Colorimetric Diazo Method</i>	0.57 mg/dL	0.2 - 1.2 mg/dL
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DIRECT BILIRUBIN <i>Colorimetric Diazo Method</i>	0.23 mg/dL	0 - 0.4 mg/dL
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INDIRECT BILIRUBIN <i>Calculation</i>	0.34 mg/dl	0.2 - 0.8 mg/dl
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S G O T (AST) <i>IFCC Without Pyridoxal Phosphates</i>	31.7 U/L	up to 35 U/L
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S G P T (ALT) <i>IFCC Without Pyridoxal Phosphates</i>	30.1 U/L	up to 50 U/L
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ALKALINE PHOSPHATASE <i>p-Nitrophenyl Phosphate</i>	84 U/L	36 - 113 U/L
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SERUM GAMMA GLUTAMYLTRANSFERASE (GGT) <i>GCNA-IFCC</i>	36.5 U/L	15 - 85 U/L
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TOTAL PROTEIN <i>Biuret Colorimetric</i>	6.56 g/dl	6.2 - 8 g/dl
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S.ALBUMIN <i>Bromocresol Green (BCG)</i>	4.20 g/dl	3.5 - 5.2 g/dl
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S.GLOBULIN <i>Calculation</i>	2.4 g/dl	2.5 - 3.8 g/dl
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A/G RATIO <i>Calculation</i>	1.8	1 - 1.5
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BLOOD UREA <i>UREASE-GLUTAMATE DEHYDROGENASE (GLDH)</i>	21.1 mg/dL	15 - 50 mg/dL
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CREATININE <i>Jaffe Kinetic</i>	0.7 mg/dL	0.4 - 1.4 mg/dL
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URIC ACID <i>Uricase-Peroxidase</i>	4.5 mg/dL	3 - 7.2 mg/dL
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SERUM ELECTROLYTES		
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SODIUM <i>Ion Selective Electrode (ISE)</i>	136 mmol/L	136 - 145 mmol/L
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POTASSIUM <i>Ion Selective Electrode (ISE)</i>	4.46 mmol/L	3.5 - 5.2 mmol/L
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CHLORIDE <i>Ion Selective Electrode (ISE)</i>	101 mmol/L	97 - 111 mmol/L
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<u>LIPID PROFILE TEST</u>			
<i>Spectrometry</i>			
TOTAL CHOLESTEROL <i>Cholesterol Oxidase-Peroxidase (CHOD-POD)</i>	150 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>	194 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>	43.9 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>	67.3 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>	38.8 mg/dL	2 - 30 mg/dL	
TOTAL CHOLESTROL/HDL RATIO <i>Calculation</i>	3.4	up to 3.5 3.5-5.0 - Moderate >5.0 - High	
LDL/HDL RATIO <i>Calculation</i>	1.5	up to 2.5 2.5-3.3 - Moderate >3.3 - High	
FASTING BLOOD SUGAR <i>Hexokinase</i>	207.6 mg/dl	70 - 110 mg/dl	
POST PRANDIAL BLOOD SUGAR <i>Hexokinase</i>	276 mg/dl	80 - 150 mg/dl	

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CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC

Strips & Microscopy

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>	1.025	1.005-1.035
pH	6.0	4.6-8.5

CHEMICAL EXAMINATION (DIPSTICK)

Protein <i>Strips Method</i>	Nil	Nil -Trace
Glucose <i>Strips Method</i>	1 %	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>	1 - 2 /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
Cast <i>Light Microscopic</i>	NIL	NIL
Crystal <i>Light Microscopic</i>	NIL	Nil

FASTING URINE SUGAR (FUS)	1 %	NIL
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POSTPRANDIAL URINE SUGAR	2 %	NIL	

IMMUNOASSAY

THYROID PROFILE

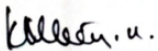
TOTAL TRIIODOTHYRONINE (T3) <small>CMA</small>	1.23 ng/mL	0.87 - 1.78 ng/mL
TOTAL THYROXINE (T4) <small>CMA</small>	11.81 µg/dL	6.09 - 12.23 µg/dL
THYROID STIMULATING HORMONE (TSH) <small>CMA</small>	3.200 µIU/mL	0.38 - 5.33 µIU/mL 1st Trimester: 0.05 - 3.70 2nd Trimester: 0.31 - 4.35 3rd Trimester: 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

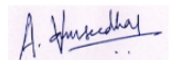


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PROSTATIC SPECIFIC ANTIGEN (PSA)

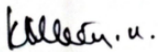
<u>ECLIA</u> PROSTATIC SPECIFIC ANTIGEN (PSA) <u>CMA</u>	1.10 ng/mL	Up to 4ng/mL: Normal 4-10 ng/mL Hypertrophy & benign genito urinary conditions. >10 ng/mL Suspicious of malignancy.	
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PSA is used for monitoring patients with a history of prostate cancer and as an early indicator of recurrence and response to treatment. The test is commonly used for Prostate cancer screening.

Dispatched by: KIRAN

**** End of Report ****

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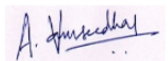


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