




(A Unit of Vijayalakshmi Diagnostics Pvt. Ltd.)

Diagnostics & Speciality Centre

NAME	: Mr. SAMPATH KUMAR M S	MR NO.	: 21100281
AGE/SEX	: 63 Yrs / Male	VISIT NO.	: 141824
REFERRED BY :		DATE OF COLLECTION	: 06-10-2021 at 09:27 AM
		DATE OF REPORT	: 06-10-2021 at 02:24 PM
REF CENTER	: MEDIWHEEL		

TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
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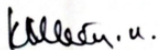
HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC) WITH ESR


HAEMOGLOBIN <i>Colorimetric Method</i>	17.4 gm/dL	13 - 18 gm/dL
HEMATOCRIT (PCV) <i>Calculated</i>	51.5 %	40 - 54 %
RED BLOOD CELL (RBC) COUNT <i>Electrical Impedance</i>	5.5 million/cu.mm	4.5 - 5.9 million/cu.mm
PLATELET COUNT <i>Electrical Impedance</i>	3.0 Lakhs/cumm	1.5 - 4.5 Lakhs/cumm
MEAN CELL VOLUME (MCV) <i>Calculated</i>	93.3 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>	33.8 %	31 - 35 %
TOTAL WBC COUNT (TC) <i>Electrical Impedance</i>	12300 cells/cumm	4000 - 11000 cells/cumm

DIFFERENTIAL COUNT

NEUTROPHILS <i>VCS Technology/Microscopic</i>	63 %	40 - 75 %
LYMPHOCYTES <i>VCS Technology/Microscopic</i>	26 %	25 - 40 %
EOSINOPHILS <i>VCS Technology/Microscopic</i>	04 %	0 - 7 %
MONOCYTES <i>VCS Technology/Microscopic</i>	08 %	1 - 8 %
BASOPHILS <i>Electrical Impedance</i>	00 %	
ESR <i>Westergren Method</i>	22 mm/hr	0 - 15 mm/hr







Dr. KRISHNA MURTHY

MD
BIOCHEMIST

Lab Seal

Dr. VAMSEEDHAR.A

D.C.P, M.D
CONSULTANT PATHOLOGIST

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BLOOD GROUP & Rh TYPING
Tube Agglutination (Forward and Reverse)

"O" Positive

GLYCATED HAEMOGLOBIN (HbA1C)
HPLC

5.2 %

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%

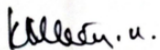
ESTIMATED AVERAGE GLUCOSE (eAG)
Calculation

102.54 mg/dL

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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TEST PARAMETER

RESULT

REFERENCE RANGE

SPECIMEN

CLINICAL BIOCHEMISTRY

CREATININE

Jaffe Method

1.08 mg/dL

0.8 - 1.4 mg/dL

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TEST PARAMETER RESULT REFERENCE RANGE SPECIMEN

LIPID PROFILE TEST

TOTAL CHOLESTEROL
Cholesterol Oxidase-Peroxidase (CHOD-POD)

132 mg/dL

up to 200 mg/dL
Border Line: 200 – 240 mg/dL
High: > 240 mg/dL

TRIGLYCERIDES
Glycerol Peroxidase-Peroxidase (GPO-POD)

187.1 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
PEG-Cholesterol Esterase

39.4 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
Cholesterol Esterase-Cholesterol Oxidase

55.2 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
Calculation

37.4 mg/dL

2 - 30 mg/dL

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
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>	1.4	up to 2.5 2.5-3.3 - Moderate >3.3 - High	
POST PRANDIAL BLOOD SUGAR <i>Hexokinase</i>	125.5 mg/dl	80 - 150 mg/dl	
BLOOD UREA <i>UREASE-GLUTAMATE DEHYDROGENASE (GLDH)</i>	12.3 mg/dL	15 - 50 mg/dL	
URIC ACID <i>Uricase-Peroxidase</i>	5.2 mg/dL	3 - 7.2 mg/dL	
SERUM ELECTROLYTES			
SODIUM <i>Ion Selective Electrode (ISE)</i>	136 mmol/L	136 - 145 mmol/L	
POTASSIUM <i>Ion Selective Electrode (ISE)</i>	4.6 mmol/L	3.5 - 5.2 mmol/L	
CHLORIDE <i>Ion Selective Electrode (ISE)</i>	103 mmol/L	97 - 111 mmol/L	

Krishna M. Murthy



A. Vamseedhar

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LIVER FUNCTION TEST (LFT)

TOTAL BILIRUBIN <i>Colorimetric Diazo Method</i>	0.85 mg/dL	0.2 - 1.2 mg/dL	
DIRECT BILIRUBIN <i>Colorimetric Diazo Method</i>	0.53 mg/dL	0 - 0.4 mg/dL	
INDIRECT BILIRUBIN <i>Calculation</i>	0.32 mg/dl		
S G O T (AST) <i>IFCC Without Pyridoxal Phosphates</i>	25.3 U/L	up to 35 U/L	
S G P T (ALT) <i>IFCC Without Pyridoxal Phosphates</i>	17.3 U/L	up to 50 U/L	
ALKALINE PHOSPHATASE <i>p-Nitrophenyl Phosphate</i>	78 U/L	36 - 113 U/L	
SERUM GAMMA GLUTAMYLTRANSFERASE (GGT) <i>GCNA-IFCC</i>	39.1 U/L	15 - 85 U/L	
TOTAL PROTEIN <i>Biuret Colorimetric</i>	6.47 g/dl	6.2 - 8 g/dl	
S.ALBUMIN <i>Bromocresol Green (BCG)</i>	4.33 g/dl	3.5 - 5.2 g/dl	
S.GLOBULIN <i>Calculation</i>	2.1 g/dl	2.5 - 3.8 g/dl	
A/G RATIO <i>Calculation</i>	2.1	1 - 1.5	
FASTING BLOOD SUGAR <i>Hexokinase</i>	103.6 mg/dl	70 - 110 mg/dl	

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC

PHYSICAL EXAMINATION

Colour <i>Visual Method</i>	Pale Yellow	Pale yellow- yellow
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Appearance <i>Visual Method</i>	Clear	Clear/Transparent	
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Specific Gravity <i>Strips Method</i>	1.010	1.005-1.035	
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pH	6.0	4.6-8.5	
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CHEMICAL EXAMINATION (DIPSTICK)

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

Pus Cells (WBC) <i>Light Microscopic</i>	3 - 4 /hpf	0-5/hpf	
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Epithelial Cells <i>Light Microscopic</i>	1 - 2 /hpf	0-4/hpf	
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RBC <i>Light Microscopic</i>	Not Seen /hpf	0-2/hpf	
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Cast <i>Light Microscopic</i>	NIL	NIL	
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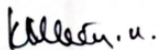
TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
Crystal <i>Light Microscopic</i>	NIL	Nil	
FASTING URINE SUGAR (FUS)	NIL	NIL	
POSTPRANDIAL URINE SUGAR	NIL	NIL	

IMMUNOASSAY

PROSTATIC SPECIFIC ANTIGEN (PSA)

PROSTATIC SPECIFIC ANTIGEN (PSA) <i>CMIA</i>	0.61 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.




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THYROID PROFILE

TOTAL TRIIODOTHYRONINE (T3) <small>CMIA</small>	1.11 ng/mL	0.87 - 1.78 ng/mL	
TOTAL THYROXINE (T4) <small>CMIA</small>	11.67 µg/dL	6.09 - 12.23 µg/dL	
THYROID STIMULATING HORMONE (TSH) <small>CMIA</small>	1.275 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.

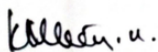
Clinical Use:

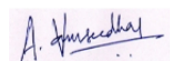
- Primary Hypothyroidism
- Hyperthyroidism
- Hypothalamic - Pituitary hypothyroidism
- Inappropriate TSH secretion
- Nonthyroidal illness
- Autoimmune thyroid disease
- Pregnancy associated thyroid disorders
- Thyroid dysfunction in infancy and early childhood

Dispatched by: Sumalatha

**** End of Report ****

Printed by: Sumalatha on 06-10-2021 at 02:24 PM





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