


NAME	: Mrs. MAUSAM KUMARI	MR NO.	: 21062458
AGE/SEX	: 32 Yrs / Female	VISIT NO.	: 136265
REFERRED BY :		DATE OF COLLECTION	: 26-06-2021 at 10:22 AM
		DATE OF REPORT	: 26-06-2021 at 02:08 PM
REF CENTER	: MEDIWHEEL		

TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
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MEDIWHEEL HEALTH CHECKUP FEMALE

HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC) WITH ESR

HAEMOGLOBIN <i>Colorimetric Method</i>	12.6 gm/dL	12 - 16 gm/dL
HEMATOCRIT (PCV) <i>Calculated</i>	38.5 %	36 - 47 %
RED BLOOD CELL (RBC) COUNT <i>Electrical Impedance</i>	4.2 million/cu.mm	4 - 5.2 million/cu.mm
PLATELET COUNT <i>Electrical Impedance</i>	1.6 Lakhs/cumm	1.5 - 4.5 Lakhs/cumm
MEAN CELL VOLUME (MCV) <i>Calculated</i>	93.1 fl	80 - 100 fl
MEAN CORPUSCULAR HEMOGLOBIN (MCH) <i>Calculated</i>	30.3 pg	26 - 34 pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) <i>Calculated</i>	32.6 %	31 - 35 %
TOTAL WBC COUNT (TC) <i>Electrical Impedance</i>	4260 cells/cumm	4000 - 11000 cells/cumm

DIFFERENTIAL COUNT

NEUTROPHILS <i>VCS Technology/Microscopic</i>	47 %	40 - 75 %
LYMPHOCYTES <i>VCS Technology/Microscopic</i>	39 %	25 - 40 %
EOSINOPHILS <i>VCS Technology/Microscopic</i>	08 %	0 - 7 %
MONOCYTES <i>VCS Technology/Microscopic</i>	06 %	1 - 8 %
BASOPHILS <i>Electrical Impedance</i>	00 %	

Krishna M. Murthy



A. Vamseedhar

Dr. KRISHNA MURTHY

MD
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Lab Seal

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CONSULTANT PATHOLOGIST


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(A Unit of Vijayalakshmi Diagnostics Pvt. Ltd.)

Diagnostics & Speciality Centre

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ESR <i>Westergren Method</i>	12 mm/hr	0 - 20 mm/hr	
BLOOD GROUP & Rh TYPING <i>Tube Agglutination (Forward and Reverse)</i>	"O" Negative		

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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%

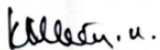
ESTIMATED AVERAGE GLUCOSE (eAG)
Calculation

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.



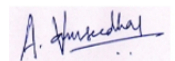
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TEST PARAMETER

RESULT

REFERENCE RANGE

SPECIMEN

CLINICAL BIOCHEMISTRY

FASTING BLOOD SUGAR

Hexokinase

101.5 mg/dl

70 - 110 mg/dl

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LIPID PROFILE TEST

TOTAL CHOLESTEROL <i>Cholesterol Oxidase-Peroxidase (CHOD-POD)</i>	168 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>	383.9 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>	38.2 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>	53.0 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>	76.8 mg/dL	2 - 30 mg/dL	

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TOTAL CHOLESTROL/HDL RATIO <i>Calculation</i>	4.4	up to 3 3.0-4.4 - Moderate >4.4 - High	
LDL/HDL RATIO <i>Calculation</i>	1.4	up to 2.5 2.5-3.3 - Moderate >3.3 - High	
BLOOD UREA <i>UREASE-GLUTAMATE DEHYDROGENASE (GLDH)</i>	19.2 mg/dL	15 - 50 mg/dL	
CREATININE <i>Jaffe Kinetic</i>	0.72 mg/dL	0.4 - 1.4 mg/dL	
URIC ACID <i>Uricase-Peroxidase</i>	3.7 mg/dL	2.5 - 6 mg/dL	
SERUM ELECTROLYTES			
SODIUM <i>Ion Selective Electrode (ISE)</i>	140 mmol/L	136 - 145 mmol/L	
POTASSIUM <i>Ion Selective Electrode (ISE)</i>	4.1 mmol/L	3.5 - 5.2 mmol/L	
CHLORIDE <i>Ion Selective Electrode (ISE)</i>	100 mmol/L	97 - 111 mmol/L	

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LIVER FUNCTION TEST (LFT)

TOTAL BILIRUBIN <i>Colorimetric Diazo Method</i>	0.76 mg/dL	0.2 - 1.2 mg/dL	
DIRECT BILIRUBIN <i>Colorimetric Diazo Method</i>	0.30 mg/dL	0 - 0.4 mg/dL	
INDIRECT BILIRUBIN <i>Calculation</i>	0.46 mg/dl		
S G O T (AST) <i>IFCC Without Pyridoxal Phosphates</i>	17.1 U/L	up to 31 U/L	
S G P T (ALT) <i>IFCC Without Pyridoxal Phosphates</i>	11.3 U/L	up to 46 U/L	
ALKALINE PHOSPHATASE <i>p-Nitrophenyl Phosphate</i>	84 U/L	36 - 113 U/L	
SERUM GAMMA GLUTAMYLTRANSFERASE (GGT) <i>GCNA-IFCC</i>	10.8 U/L	5 - 55 U/L	
TOTAL PROTEIN <i>Biuret Colorimetric</i>	6.88 g/dl	6.2 - 8 g/dl	
S.ALBUMIN <i>Bromocresol Green (BCG)</i>	3.77 g/dl	3.5 - 5.2 g/dl	
S.GLOBULIN <i>Calculation</i>	3.1 g/dl	2.5 - 3.8 g/dl	
A/G RATIO <i>Calculation</i>	1.2	1 - 1.5	

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IMMUNOASSAY

THYROID PROFILE

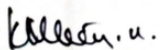
TOTAL TRIIODOTHYRONINE (T3) <small>CMIA</small>	1.01 ng/mL	0.87 - 1.78 ng/mL
TOTAL THYROXINE (T4) <small>CMIA</small>	8.73 µg/dL	6.09 - 12.23 µg/dL
THYROID STIMULATING HORMONE (TSH) <small>CMIA</small>	10.544 µIU/mL	0.38 - 5.33 µIU/mL 1st Trimester: 0.05 - 3.70 2nd Trimester: 0.31 - 4.35 3rd Trimester: 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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