NAME	: **Mr. N RAVI KUMAR**	MR NO.	: 21071114
AGE/SEX	: 29 Yrs / Male	VISIT NO.	: 137257
REFERRED BY	:	DATE OF COLLECTION	: 16-07-2021 at 10:17 AM
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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN

HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC) WITH ESR

HAEMOGLOBIN *Colorimetric Method*	15.6 gm/dL	13 - 18 gm/dL
HEMATOCRIT (PCV) *Calculated*	48.2 %	40 - 54 %
RED BLOOD CELL (RBC) COUNT *Electrical Impedance*	5.7 million/cu.mm	4.5 - 5.9 million/cu.mm
PLATELET COUNT *Electrical Impedance*	**4.8** Lakhs/cumm	1.5 - 4.5 Lakhs/cumm
MEAN CELL VOLUME (MCV) *Calculated*	85.3 fl	80 - 100 fl
MEAN CORPUSCULAR HEMOGLOBIN (MCH) *Calculated*	27.6 pg	26 - 34 pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) *Calculated*	32.3 %	31 - 35 %
TOTAL WBC COUNT (TC) *Electrical Impedance*	10440 cells/cumm	4000 - 11000 cells/cumm

DIFFERENTIAL COUNT

NEUTROPHILS *VCS Technology/Microscopic*	73 %	40 - 75 %
LYMPHOCYTES *VCS Technology/Microscopic*	**21** %	25 - 40 %
EOSINOPHILS *VCS Technology/Microscopic*	01 %	0 - 7 %
MONOCYTES *VCS Technology/Microscopic*	05 %	1 - 8 %
BASOPHILS *Electrical Impedance*	00 %	
ESR *Westergren Method*	35 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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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
BLOOD GROUP & Rh TYPING *Tube Agglutination (Forward and Reverse)*	"B" Positive		
GLYCATED HAEMOGLOBIN (HbA1C) *HPLC*	5.1 %	**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*	99.67 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.

Dr. KRISHNA MURTHY
MD
BIOCHEMIST

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
CLINICAL BIOCHEMISTRY			
BLOOD UREA *UREASE-GLUTAMATE DEHYDROGENASE (GLDH)*	17.4 mg/dL	15 - 50 mg/dL	
CREATININE *Jaffe Kinetic*	0.77 mg/dL	0.4 - 1.4 mg/dL	
URIC ACID *Uricase-Peroxidase*	5.2 mg/dL	3 - 7.2 mg/dL	
SERUM ELECTROLYTES			
SODIUM *Ion Selective Electrode (ISE)*	**140** mmol/L	136 - 145 mmol/L	
POTASSIUM *Ion Selective Electrode (ISE)*	**4.3** mmol/L	3.5 - 5.2 mmol/L	
CHLORIDE *Ion Selective Electrode (ISE)*	**102** mmol/L	97 - 111 mmol/L	

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
LIPID PROFILE TEST			
TOTAL CHOLESTEROL *Cholesterol Oxidase-Peroxidase (CHOD-POD)*	**202** mg/dL	up to 200 mg/dL Border Line: 200 – 240 mg/dL High: > 240 mg/dL	
TRIGLYCERIDES *Glycerol Peroxidase-Peroxidase (GPO-POD)*	**196.7** 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*	44.4 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*	118.3 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 *Calculation*	39.3 mg/dL	2 - 30 mg/dL	

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
TOTAL CHOLESTROL/HDL RATIO *Calculation*	**4.5**	up to 3.5 3.5-5.0 - Moderate >5.0 - High	
LDL/HDL RATIO *Calculation*	**2.7**	up to 2.5 2.5-3.3 - Moderate >3.3 - High	
FASTING BLOOD SUGAR *Hexokinase*	99.8 mg/dl	70 - 110 mg/dl	

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
LIVER FUNCTION TEST (LFT)			
TOTAL BILIRUBIN *Colorimetric Diazo Method*	0.43 mg/dL	0.2 - 1.2 mg/dL	
DIRECT BILIRUBIN *Colorimetric Diazo Method*	0.18 mg/dL	0 - 0.4 mg/dL	
INDIRECT BILIRUBIN *Calculation*	0.25 mg/dl		
S G O T (AST) *IFCC Without Pyridoxal Phosphates*	15.6 U/L	up to 35 U/L	
S G P T (ALT) *IFCC Without Pyridoxal Phosphates*	32.2 U/L	up to 50 U/L	
ALKALINE PHOSPHATASE *p-Nitrophenyl Phosphate*	67 U/L	36 - 113 U/L	
SERUM GAMMA GLUTAMYLTRANSFERASE (GGT) *GCNA-IFCC*	27.1 U/L	15 - 85 U/L	
TOTAL PROTEIN *Biuret Colorimetric*	**6.28** g/dl	6.2 - 8 g/dl	
S.ALBUMIN *Bromocresol Green (BCG)*	4.08 g/dl	3.5 - 5.2 g/dl	
S.GLOBULIN *Calculation*	**2.2** g/dl	2.5 - 3.8 g/dl	
A/G RATIO *Calculation*	**1.9**	1 - 1.5	
CREATININE *Jaffe Method*	**0.77** mg/dL	0.8 - 1.4 mg/dL	
POST PRANDIAL BLOOD SUGAR *Hexokinase*	137.9 mg/dl	80 - 150 mg/dl	

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC

PHYSICAL EXAMINATION

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MD
BIOCHEMIST

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
Colour *Visual Method*	Pale Yellow	Pale yellow- yellow	
Appearance *Visual Method*	Clear	Clear/Transparent	
Specific Gravity *Strips Method*	1.020	1.005-1.035	
pH	6.0	4.6-8.5	
CHEMICAL EXAMINATION (DIPSTICK)			
Protein *Strips Method*	Nil	Nil -Trace	
Glucose *Strips Method*	Nil	Nil	
Blood *Strips Method*	Negative	Negative	
Ketone Bodies *Strips Method*	Absent	Negative	
Urobilinogen *Strips Method*	Normal	Normal	
Bile Salt *Strips Method*	Negative	Negative	
Bilirubin *Strips Method*	Negative	Negative	
Bile Pigments	Negative	NIL	
MICROSCOPY			
Pus Cells (WBC) *Light Microscopic*	3 - 4 /hpf	0-5/hpf	
Epithelial Cells *Light Microscopic*	1 - 2 /hpf	0-4/hpf	
RBC *Light Microscopic*	Not Seen /hpf	0-2/hpf	
Cast *Light Microscopic*	NIL	NIL	

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
Crystal *Light Microscopic*	NIL	Nil	
FASTING URINE SUGAR (FUS)	NIL	NIL	
POSTPRANDIAL URINE SUGAR	NIL	NIL	

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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN

IMMUNOASSAY

THYROID PROFILE

TOTAL TRIIODOTHYRONINE (T3) *CMIA*	1.36 ng/mL	0.87 - 1.78 ng/mL	
TOTAL THYROXINE (T4) *CMIA*	8.75 µg/dL	6.09 - 12.23 µg/dL	
THYROID STIMULATING HORMONE (TSH) *CMIA*	**0.338** 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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TEST PARAMETER	RESULT	REFERENCE RANGE	SPECIMEN
PROSTATIC SPECIFIC ANTIGEN (PSA)			
PROSTATIC SPECIFIC ANTIGEN (PSA) *CMIA*	0.43 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.

Dispatched by: Sumalatha

**** End of Report ****

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