





Diagnostics & Speciality Centre

NAME : Mr. ASHOK MR NO. : 23020107

AGE/SEX : 46 Yrs / Male VISIT NO. : 169372

REFERRED BY : DATE OF COLLECTION: 04-02-2023 at 09:15 AM

DATE OF REPORT : 04-02-2023 at 05:35 PM REF CENTER : MEDIWHEEL

TEST PARAMETER RESULT REFERENCE RANGE **SPECIMEN**

HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC) WITH ESR

HAEMOGLOBIN 16.4 gm/dL 13 - 18 gm/dL

HEMATOCRIT (PCV) 47.9 % 40 - 54 %

RED BLOOD CELL (RBC) COUNT 5.5 million/cu.mm 4.5 - 5.9 million/cu.mm

PLATELET COUNT 3.4 Lakhs/cumm 1.5 - 4.5 Lakhs/cumm

MEAN CELL VOLUME (MCV) 87.0 fl 80 - 100 fl

Note: All normal and abnormal platelet counts are cross checked on peripheral smear.

MEAN CORPUSCULAR HEMOGLOBIN (MCH) 29.8 pg 26 - 34 pg MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION 34.3 % 31 - 35 %

(MCHC)

TOTAL WBC COUNT (TC) 4000 - 11000 cells/cumm 7910.0 cells/cumm

NEUTROPHILS 50 % 40 - 75 % LYMPHOCYTES 40 % 25 - 40 %

DIFFERENTIAL COUNT

EOSINOPHILS 04 % 0 - 7 % MONOCYTES 06 % 1 - 8 %

BASOPHILS 00 %

0 - 15 mm/hr 20 mm/hr **ESR** Westergren Method

BLOOD GROUP & Rh TYPING "A" Positive

Collegy, u.





Dr. KRISHNA MURTHY

MD BIOCHEMIST

Dr. VAMSEEDHAR.A D.C.P, M.D CONSULTANT PATHOLOGIST

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GLYCATED HAEMOGLOBIN (HbA1C) **American Diabetic Association** 7.3 %

(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) 162.81 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 glycese 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.

CLINICAL BIOCHEMISTRY

CREATININE 1.23 mg/dL 0.8 - 1.4 mg/dL

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TEST PARAMETER RESULT SPECIMEN REFERENCE RANGE

LIPID PROFILE TEST

TOTAL CHOLESTEROL 237 mg/dL up to 200 mg/dL sterol Oxidase-Peroxidase (CHOD-POD)

Border Line: 200 - 240 mg/dL

High: > 240 mg/dL

up to 150 mg/dL **TRIGLYCERIDES** 254.5 mg/dL Peroxidase (GPO-POD)

Desirable: <150 mg/dL Border Line: 150 – 200 mg/dL High: >200 – 500 mg/dL Very High: > 500 mg/dL

HDL CHOLESTEROL - DIRECT 48 mg/dl 40 - 60 mg/dl

>/= 60mg/dL - Excellent (protects against heart

40-59 mg/dL - Higher the better

<40 mg/dL - Lower than desired (major risk for

LDL CHOLESTEROL - DIRECT 138.1 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 50.9 mg/dL 2 - 30 mg/dL

TOTAL CHOLESTROL/HDL RATIO 4.9

3.5-5.0 - Moderate >5.0 - High

up to 3.5

LDL/HDL RATIO 2.9 up to 2.5

2.5-3.3 - Moderate >3.3 - High

3 - 7.2 mg/dL

11.8 mg/dL 15 - 50 mg/dL

BLOOD UREA
UREASE-GLUTAMATE DEHYDROGENASE (GLDH) **CREATININE** 1.23 mg/dL 0.4 - 1.4 mg/dL

SERUM ELECTROLYTES

URIC ACID

137.1 mmol/L 136 - 145 mmol/L SODIUM

5.8 mg/dL

ective Electrode (ISE) POTASSIUM Ion Selective Electrode (ISE) 4.21 mmol/L 3.5 - 5.2 mmol/L **CHLORIDE** 101 mmol/L 97 - 111 mmol/L

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elective Electrode (ISE)





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SPECIMEN TEST PARAMETER RESULT REFERENCE RANGE LIVER FUNCTION TEST (LFT) TOTAL BILIRUBIN Colorimetric Diazo Method 0.2 - 1.2 mg/dL 0.85 mg/dL 0 - 0.4 mg/dL **DIRECT BILIRUBIN** 0.46 mg/dL INDIRECT BILIRUBIN 0.39 mg/dl 0.2 - 0.8 mg/dl S G O T (AST) 15 U/L up to 35 U/L S G P T (ALT) up to 50 U/L 34 U/L 140 U/L 36 - 113 U/L ALKALINE PHOSPHATASE SERUM GAMMA GLUTAMYLTRANSFERASE (GGT) 89.9 U/L 15 - 85 U/L TOTAL PROTEIN
Biuret Colorimetric 6.37 g/dl 6.2 - 8 g/dl 3.5 - 5.2 g/dl S.ALBUMIN 3.93 g/dl S.GLOBULIN 2.4 g/dl 2.5 - 3.8 g/dl A/G RATIO 1.6 1 - 1.5 FASTING BLOOD SUGAR 147 mg/dl 70 - 110 mg/dl POST PRANDIAL BLOOD SUGAR 257 mg/dl 80 - 150 mg/dl

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SPECIMEN TEST PARAMETER RESULT REFERENCE RANGE

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC

REF CENTER : MEDIWHEEL

PHYSICAL EXAMINATION

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	2 - 3 /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
Crystal Light Microscopic	NIL	Nil

FASTING URINE SUGAR (FUS)	NIL	NIL
POSTPRANDIAL URINE SUGAR	0.5 %	NIL

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RESULT

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IMMUNOASSAY

THYROID PROFILE

TEST PARAMETER

TOTAL TRIIODOTHYRONINE (T3) 1.15 ng/mL 0.87 - 1.78 ng/mL TOTAL THYROXINE (T4) $7.07 \, \mu g/dL$ 6.09 - 12.23 μg/dL THYROID STIMULATING HORMONE (TSH) 1.10 μlU/mL 0.38 - 5.33 μlU/mL

1st Trimester: 0.05 - 3.70 2nd Trimester: 0.31 - 4.35 3rd Trimester: 0.41 - 5.18

REFERENCE RANGE

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

PROSTATIC SPECIFIC ANTIGEN (PSA)

Up to 4ng/mL: Normal PROSTATIC SPECIFIC ANTIGEN (PSA) 0.60 ng/mL 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: KIRAN

**** End of Report ****









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