

Name : Mrs. SHAGUFTA ALAM
PID No. : MED110960831
SID No. : 79133872
Age / Sex : 29 Year(s) / Female
Type : OP
Ref. Dr : MediWheel

Register On : 19/02/2022 9:58 AM
Collection On : 19/02/2022 10:31 AM
Report On : 19/02/2022 2:43 PM
Printed On : 23/02/2022 11:55 AM




| <u>Investigation</u> | <u>Observed Value</u> | <u>Unit</u> | <u>Biological Reference Interval</u> |
|----------------------|-----------------------|-------------|--------------------------------------|
|----------------------|-----------------------|-------------|--------------------------------------|

HAEMATOLOGY

Complete Blood Count With - ESR

| | | | |
|--|-------|-------------|--------------|
| Haemoglobin (Blood/Spectrophotometry) | 11.1 | g/dL | 12.5 - 16.0 |
| Packed Cell Volume(PCV)/Haematocrit (Blood/Derived from Impedance) | 34.0 | % | 37 - 47 |
| RBC Count (Blood/Impedance Variation) | 4.35 | mill/cu.mm | 4.2 - 5.4 |
| Mean Corpuscular Volume(MCV) (Blood/Derived from Impedance) | 78 | fL | 78 - 100 |
| Mean Corpuscular Haemoglobin(MCH) (Blood/Derived from Impedance) | 25.6 | pg | 27 - 32 |
| Mean Corpuscular Haemoglobin concentration(MCHC) (Blood/Derived from Impedance) | 32.7 | g/dL | 32 - 36 |
| RDW-CV (Derived from Impedance) | 15.3 | % | 11.5 - 16.0 |
| RDW-SD (Derived from Impedance) | 41.77 | fL | 39 - 46 |
| Total Leukocyte Count (TC) (Blood/Impedance Variation) | 4900 | cells/cu.mm | 4000 - 11000 |
| Neutrophils (Blood/Impedance Variation & Flow Cytometry) | 59 | % | 40 - 75 |
| Lymphocytes (Blood/Impedance Variation & Flow Cytometry) | 37 | % | 20 - 45 |
| Eosinophils (Blood/Impedance Variation & Flow Cytometry) | 02 | % | 01 - 06 |


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M.B.B.S.; M.D. Pathology
Fellow Neuropathology
(K.E.M. Hospital, Mumbai)
Reg No: 2011/04/0990


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| Monocytes (Blood/Impedance Variation & Flow Cytometry) | 02 | % | 01 - 10 |
| Basophils (Blood/Impedance Variation & Flow Cytometry) | 00 | % | 00 - 02 |
| INTERPRETATION: Tests done on Automated Three Part cell counter. All abnormal results are reviewed and confirmed microscopically. | | | |
| Absolute Neutrophil count (Blood/Impedance Variation & Flow Cytometry) | 2.89 | 10 ³ / μ l | 1.5 - 6.6 |
| Absolute Lymphocyte Count (Blood/Impedance Variation & Flow Cytometry) | 1.81 | 10 ³ / μ l | 1.5 - 3.5 |
| Absolute Eosinophil Count (AEC) (Blood/Impedance Variation & Flow Cytometry) | 0.10 | 10 ³ / μ l | 0.04 - 0.44 |
| Absolute Monocyte Count (Blood/Impedance Variation & Flow Cytometry) | 0.10 | 10 ³ / μ l | < 1.0 |
| Absolute Basophil count (Blood/Impedance Variation & Flow Cytometry) | 0.00 | 10 ³ / μ l | < 0.2 |
| Platelet Count (Blood/Impedance Variation) | 1.49 | lakh/cu.mm | 1.4 - 4.5 |
| MPV (Blood/Derived from Impedance) | 8.7 | fL | 8.0 - 13.3 |
| PCT (Automated Blood cell Counter) | 0.13 | % | 0.18 - 0.28 |
| ESR (Erythrocyte Sedimentation Rate) (Blood/Automated ESR analyser) | 17 | mm/hr | < 20 |


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| <u>BIOCHEMISTRY</u> | | | |
| <u>Liver Function Test</u> | | | |
| Bilirubin(Total) (Serum/DCA with ATCS) | 0.81 | mg/dL | 0.1 - 1.2 |
| Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid) | 0.20 | mg/dL | 0.0 - 0.3 |
| Bilirubin(Indirect) (Serum/Derived) | 0.61 | mg/dL | 0.1 - 1.0 |
| SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC) | 22 | U/L | 5 - 40 |
| SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC) | 18 | U/L | 5 - 41 |
| Alkaline Phosphatase (SAP) (Serum/Modified IFCC) | 71 | U/L | 42 - 98 |
| Total Protein (Serum/Biuret) | 7.4 | gm/dL | 6.0 - 8.0 |
| Albumin (Serum/Bromocresol green) | 4.1 | gm/dL | 3.5 - 5.2 |
| Globulin (Serum/Derived) | 3.30 | gm/dL | 2.3 - 3.6 |
| A : G RATIO (Serum/Derived) | 1.24 | | 1.1 - 2.2 |


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Lipid Profile

| | | | |
|---|-----|-------|--|
| Cholesterol Total (Serum/CHOD-PAP with ATCS) | 142 | mg/dL | Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240 |
|---|-----|-------|--|

| | | | |
|--|----|-------|---|
| Triglycerides (Serum/GPO-PAP with ATCS) | 95 | mg/dL | Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500 |
|--|----|-------|---|

INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the usual circulating level of triglycerides during most part of the day.

| | | | |
|---|------|-------|--|
| HDL Cholesterol (Serum/Immunoinhibition) | 47.2 | mg/dL | Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50 |
|---|------|-------|--|

| | | | |
|---------------------------------------|------|-------|---|
| LDL Cholesterol (Serum/Calculated) | 75.8 | mg/dL | Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190 |
|---------------------------------------|------|-------|---|

| | | | |
|--|----|-------|------|
| VLDL Cholesterol (Serum/Calculated) | 19 | mg/dL | < 30 |
|--|----|-------|------|

| | | | |
|---|------|-------|--|
| Non HDL Cholesterol (Serum/Calculated) | 94.8 | mg/dL | Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220 |
|---|------|-------|--|


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INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol.
2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

| | | | |
|---|---|--|--|
| Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated) | 3 | | Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0 |
|---|---|--|--|

| | | | |
|--|---|--|--|
| Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated) | 2 | | Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0 |
|--|---|--|--|

| | | | |
|---|-----|--|---|
| LDL/HDL Cholesterol Ratio (Serum/Calculated) | 1.6 | | Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0 |
|---|-----|--|---|


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| <u>Glycosylated Haemoglobin (HbA1c)</u> | | | |
| HbA1C (Whole Blood/Ion exchange HPLC) | 5.6 | % | Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: \geq 6.5 |

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control \geq 8.1 %

Remark: *Outsourced To Metropolis.

| | | |
|-------------------------------------|-----|-------|
| Mean Blood Glucose (Whole Blood) | 114 | mg/dL |
|-------------------------------------|-----|-------|

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency, hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values.

Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.


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IMMUNOASSAY

THYROID PROFILE / TFT

| | | | |
|---|------|-------|------------|
| T3 (Triiodothyronine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA)) | 0.83 | ng/ml | 0.7 - 2.04 |
|---|------|-------|------------|

INTERPRETATION:

Comment :

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

| | | | |
|---|------|-------|------------|
| T4 (Tyroxine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA)) | 7.21 | µg/dl | 4.2 - 12.0 |
|---|------|-------|------------|

INTERPRETATION:

Comment :

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

| | | | |
|--|--------|--------|-------------|
| TSH (Thyroid Stimulating Hormone)- Ultrasensitive (Serum/Chemiluminescent Immunometric Assay (CLIA)) | 4.0827 | µIU/mL | 0.35 - 5.50 |
|--|--------|--------|-------------|

INTERPRETATION:

Reference range for cord blood - upto 20

1 st trimester: 0.1-2.5

2 nd trimester 0.2-3.0

3 rd trimester : 0.3-3.0


(Indian Thyroid Society Guidelines)

Comment :

1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.

2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%,hence time of the day has influence on the measured serum TSH concentrations.

3.Values&lt;0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.


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Investigation

Observed
Value

Unit

Biological
Reference Interval

HAEMATOLOGY

BLOOD GROUPING AND Rh TYPING
(Blood/Agglutination)

'B' Positive'

A handwritten signature in blue ink, appearing to read "Abhishek Laul", is written over a circular logo with blue and pink elements.

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| <u>BIOCHEMISTRY</u> | | | |
| BUN / Creatinine Ratio | 13.44 | | |
| Glucose Fasting (FBS) (Plasma - F/GOD-PAP) | 99 | mg/dL | Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126 |

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

| | | | |
|--|-------------------------|-------|----------|
| Glucose, Fasting (Urine) (Urine - F) | Sample Not Given | | Negative |
| Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP) | 121 | mg/dL | 70 - 140 |

INTERPRETATION:

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti-diabetic medication during treatment for Diabetes.

| | | | |
|--|----------|-------|-----------|
| Urine Glucose(PP-2 hours) (Urine - PP) | Negative | | Negative |
| Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived) | 9.81 | mg/dL | 7.0 - 21 |
| Creatinine (Serum/Modified Jaffe) | 0.73 | mg/dL | 0.6 - 1.1 |
| Uric Acid (Serum/Enzymatic) | 4.29 | mg/dL | 2.6 - 6.0 |


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-- End of Report --

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HEALTH CHECKUP

CHIEF COMPLAINTS: Nil

PAST HISTORY:

Medical: Nil

Surgical: H/O L.S.C.S. done 1 time

PERSONAL HISTORY:

Marital Status: Married

No. of Children:-01

Habits: No. Tobacco & snuff: No. Smoking: No.

Alcohol: No.

Physical Activity: No.

Drug Allergies: Nil.

FAMILY HISTORY:

Father: Age 60 yrs - Healthy.

Mother: Age 55 yrs - Healthy.

Siblings: Brother-01 -Healthy, Sister-03 -Healthy

PHYSICAL EXAMINATION:

HEIGHT: 154 Cms.

WEIGHT: 47 Kgs.

BLOOD PRESSURE: 110 /74 mmHg.

PULSE: 84 /Min.

SKIN: Free From Contagious Diseases.

| | | | |
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Without Spectacles

EYES EXAMINATION: RIGHT LEFT

NEAR VISION: N/6 N/6

DISTANCE VISION: 6/6 6/6

COLOR BLANDNESS: - WNL

SYSTEMIC REVIEW

Pallor: No Icterus:-No Cyanosis: No

Clubbing: No Oedema: No

Lymphadenopathy : NO

Cardiovascular System: WNL

Respiratory System: WNL

Gastro Intestinal System: WNL

Central Nervous System: WNL

Genito Urinary System: WNL

Extremities & Spine: WNL

Final Impression:

Recommendation :

| | | | |
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Signature

Consultant Physician

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X - RAY CHEST PA VIEW

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

IMPRESSION :Chest radiograph reveals no evidence of any Pleuro- pulmonary abnormality



Dr. Rohan Kashyape
MD, DNB

Dr. Parimal Sonawane
DMRD, DNB

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ECHOCARDIOGRAPHY AND COLOR DOPPLER REPORT

OBSERVATION:

- NORMAL LV SIZE WITH NORMAL SYSTOLIC FUNCTION, LVEF 60%
- NO LVH, NORMAL LV DIASTOLIC FUNCTION
- NO REGIONAL WALL MOTION ABNORMALITY AT REST
- MITRAL VALVE: NORMAL
 - NO MR, NO MS
- AORTIC VALVE: NORMAL
 - NO AS, NO AR
- NO TR, NO PAH
- NORMAL LA, RA, RV, IVC WITH GOOD RV FUNCTIONS
- INTACT IAS/IVS
- NO INTRA-CARDIAC CLOT/VEGETATION
- PERICARDIUM NORMAL

AO= 28 mm LA=31 mm IVS=11/16 mm LVPW=11/15 mm LVID= 42/26 mm

FINAL IMPRESSION: NORMAL LV AND RV FUNCTIONS

NORMAL ECHO AND COLOR DOPPLER STUDY

DR. NIRMAL R. KOLTE
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CONSULTANT CARDIOLOGIST