

AMITA JINENDRA MUNOT  
294 Sindh Society Aundh

Tel No: 919822033212  
PID: 196650

Age:65.60 Years Sex:FEMALE

Reference:Dr.--

SID: 121051145

121051145

Collection Date:

29-04-2021 10:11 AM

Sample Date:

29-04-2021 10:11 am

Report Date:

29-04-2021 03:37 PM

F-----

### Complete Blood Count

(EDTA Whole Blood)

**Hemoglobin (Hb), EDTA whole blood**

**12.90**

12.3 - 15.3 g/dL

Method: Photometry

**Total Leucocytes (WBC) count**

**8,600**

4000-10000/ $\mu$ L

Method : Coulter Principle / Microscopy

**Platelet count**

**327,000**

150000 - 450000 / $\mu$ L

Method : Coulter Principle / Microscopy

**Red blood cell (RBC) count**

**4.75**

4.10 - 5.10 x 10<sup>6</sup> / $\mu$ L

Method: Coulter Principle

**PCV (Packed Cell Volume)**

**39.00**

35.9 - 44.6 %

Method: Calculated

**MCV (Mean Corpuscular Volume)**

**82.10**

80.0 - 96.0 fL

Method: Derived from RBC histogram

**MCH (Mean Corpuscular Hb)**

**27.20**

27.5 - 33.2 pgms

Method: Calculated

**MCHC (Mean Corpuscular Hb Conc.)**

**33.10**

33.4 - 35.5 g/dL

Method: Calculated

**RDW (RBC distribution width)**

**14.60**

11.6 - 14.6 %

Method: Derived from RBC Histogram

### WBC Differential Count

Method: VCSn / Microscopy / Calculated

**Neutrophils**

**57**

40 - 80 %

**Absolute Neutrophils**

**4,902**

2000 - 7000 / $\mu$ L

**Eosinophils**

**4**

1 - 6 %

**Absolute Eosinophils**

**344**

20 - 500 / $\mu$ L

**Basophils**

**0**

0 - 2 %

**Absolute Basophils**

**0**

0 - 100 / $\mu$ L

**Lymphocytes**

**32**

20 - 40 %

**Absolute Lymphocytes**

**2,752**

1000 - 3000 / $\mu$ L

**Monocytes**

**7**

2 - 10 %

**Absolute Monocytes**

**602**

200 - 1000 / $\mu$ L

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Page 1 of 13



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*Awanti Golwilkar Mehendale*  
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Carrying forward  
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Four Decades

**DIAGNOSTICS**

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BE WELL

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### Complete Blood Count Findings

R.B.C. : Normocytic, Normochromic

W.B.C. : No abnormality detected

Platelets : Adequate

Remark : ON FOLLOW UP

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Page 2 of 13

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### Test Description

Ferritin, serum by CMIA

### Observed Value

164.97

### Biological Reference Interval

Female : 4.63- 204 ng/mL

Ferritin is the major iron storage protein for the body. Ferritin is found chiefly in the cytoplasm of cells of the reticuloendothelial system and is a constituent of normal human serum. Generally the concentration of ferritin is directly proportional to the total iron stores in the body. There is a significant positive correlation between age and serum ferritin concentrations in females, but not in males. Patients with iron deficiency anemia have serum ferritin concentration approximately one-tenth of normal while patients with iron overload (hemochromatosis, hemosiderosis) have serum ferritin concentrations much higher than normal. Ferritin is a positive acute phase reactant in both adults and children, whereby chronic inflammation results in a disproportionate increase in ferritin in relation to iron reserves. Elevated ferritin is also observed in acute and chronic liver disease, chronic renal failure, and in some types of neoplastic disease.



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## Test Description

### Lipid Profile Mini :

Test Description	Observed Value	Biological Reference Interval
Cholesterol (Total), serum by Enzymatic method	<b>194</b>	Desirable : < 200 mg/dL Borderline high : 200 - 239 mg/dL High : $\geq$ 240 mg/dL
Triglycerides, serum by Enzymatic method	<b>130</b>	Normal : < 150 mg/dL Borderline high : 150-199 mg/dL High : 200-499 mg/dL Very high : $\geq$ 500 mg/dL
HDL Cholesterol, serum by Enzymatic method	<b>37</b>	Men : > 40 mg/dL Women : > 50 mg/dL
VLDL Cholesterol, serum by calculation	<b>26</b>	< 30 mg/dL
LDL Cholesterol, serum by calculation	<b>131</b>	Optimal : <100 mg/dL Near optimal/above optimal : 100-129 mg/dL Borderline high : 130-159 mg/dL High : 160-189 mg/dL Very high : $\geq$ 190 mg/dL
Cholesterol(Total)/HDL Cholesterol Ratio	<b>5.24</b>	Males : Acceptable ratio $\leq$ 5.00 Females : Acceptable ratio $\leq$ 4.50
LDL Cholesterol/HDL Cholesterol Ratio	<b>3.54</b>	Males : Acceptable ratio $\leq$ 3.60 Females : Acceptable ratio $\leq$ 3.20

### Reference : ATP III, NCEP Guidelines and National Lipid Association (NLA) 2014 Recommendations

As per most international and national guidelines including Lipid Association of India 2016 :

1. Lipoprotein and lipid levels should be considered in conjunction with other atherosclerotic cardiovascular disease (ASCVD) risk determinants to assess treatment goals and strategies.
2. Non-fasting lipid levels can be used in screening and in general risk estimation.



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### Test Description

### Observed

### Biological Reference Interval

#### Liver Function Test :

Bilirubin-Total, serum by Diazo method	0.41	0.10 - 1.20 mg/dL Neonates : Upto 15.0 mg/dL
Bilirubin-Conjugated, serum by Diazo method	0.19	Upto 0.5 mg/dL
Bilirubin-Unconjugated, serum by calculation	0.22	0.1 to 1.0 mg/dL
SGOT (AST), serum by Enzymatic method	37	>or= 14 years : 8 - 43 U/Lt
SGPT (ALT), serum by Enzymatic Method	59	7 to 45 U/Lt
Alkaline Phosphatase,serum by pNPP-kinetic	119	Adult Female : (Unit : U/Lt.). 15 - < 17 years : 50 - 117 > or =17 years: 35 - 104
Protein (total), serum by Biuret method	7.50	6.4 to 8.2 g/dL
Albumin, serum by Bromocresol purple method	3.94	3.4 to 5.0 g/dL
Globulin, serum by calculation	3.56	2.3 - 3.5 g/dL

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### Test Description

### Observed Value

### Biological Reference Interval

#### TEST NAME

Glycated Hemoglobin (HbA1C), by HPLC

**6.00**

4.0 to 5.6 %

#### Interpretation :

HbA1C level reflects the mean glucose concentration over previous 8-12 weeks and provides better indication of long term glycemic control.

#### For diagnosis of Diabetes Mellitus ( $\geq 18$ yrs of age) :

5.7 % - 6.4 % : Increased risk for developing diabetes.

$\geq 6.5$  % : Diabetes

#### Therapeutic goals for glycemic control :

Adults : < 7%

Toddlers and Preschoolers : < 8.5% (but > 7.5 %)

School age (6-12 yrs) : < 8%

Adolescents and young adults (13 - 19 yrs) : < 7.5 %

Levels of HbA1C may be low as result of shortened RBC life span in case of hemolytic anemia.

Increased HbA1C values may be found in patients with polycythemia or post splenectomy patients.

Patients with Homozygous forms of rare variant Hb(CC,SS,EE,SC) HbA1c can not be quantitated as there is no HbA. In such circumstances glycemic control can be monitored using plasma glucose levels or serum Fructosamine.

The A1c target should be individualized based on numerous factors, such as age, life expectancy, comorbid conditions, duration of diabetes, risk of hypoglycemia or adverse consequences from hypoglycemia, patient motivation and adherence.

Ref : ADA (Standards of Medical Care in Diabetes - 2017)



Page 6 of 13

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### Test Description

### Observed Value

### Biological Reference Interval

#### Enzymes :

LDH-Lactate Dehydrogenase,serum by UV Kinetic

**163.00**

81 to 234 U/Lt.



Page 7 of 13

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### Test Description

### Observed Value

### Biological Reference Interval

#### TEST NAME

Vitamin B12, serum by CMIA

181.0

187 - 883 pg/mL

#### Interpretation :

1. Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.
2. Vitamin B12 is decreased in

Decreased Serum B12
Pregnancy Contraceptive hormones Malabsorption Ethanol ingestion Smoking Strict vegan diet Pernicious anemia

3. Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.  
Active B12 ( Holotranscobalamin) is low in Vitamin B12 deficiency.
4. Please correlate in case of patients taking vitamin B12 supplementation.



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## Test Description

## Observed value

## Biological Reference Interval

### HOMA Index Insulin Resistance Test

Plasma glucose fasting, by Hexokinase method 95

< 100 mg/dL  
100 to 125 mg/dL : Impaired fasting  
glucose tolerance / Prediabetes  
>= 126 mg/dL : Suggestive of  
diabetes mellitus  
(On more than one occasion)  
American Diabetes Association  
Guidelines 2020

Insulin Fasting, Serum by CMIA 7.70

Fasting : 2.5 to 25 µU/mL  
Peak upto 150 µU/mL

HOMA IR Index 1.81

> 2.5 indicates insulin resistance

## Interpretation

1. As, the direct measurement of the insulin effect on the blood sugar concentration is not possible other indices are used for determining an insulin resistance.
2. One of the most common indices is the HOMA index (Homeostasis Model Assessment), which is calculated according to the following formula:

HOMA index = fasting insulin (µU/ml) X fasting blood sugar (mg/dl) /405

## 3. Indications :

- \* Adiposis (BMI > 28 kg/m<sup>2</sup>)
- \* Suspected insulin resistance (metabolic syndrome, diabetes mellitus type 2)
- \* Suspected polycystic ovary syndrome (PCO-S)
- \* Cycle disturbances (e. g. amenorrhea)
- \* Infertility

## 4. Reference ranges :

- > 2.0 indication for insulin resistance
- > 2.5 insulin resistance probable
- > 5.0 average value in patients with diabetes mellitus type 2

Reference : <https://www.bioscientia.de/en/files/2011/10/Marker>



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Test Description	Observed Value	Biological Reference Interval
<b>Coagulation :</b>		
D-Dimer, Citrate plasma	<b>603.62</b>	0 to 500 ng/ml (FEU) Upto four fold higher results may be observed in normal pregnancy. Method : ELFA / CLIA

**On follow up. , Suggested follow up.**

**Note :**

D-Dimer assay results may be affected by sample integrity, drug history and assay platform used.

Kindly interpret the result in view of above factors and clinical details. In case of any discrepancy, repeat the estimation on fresh sample for confirmation.

*D-Dimer is a fibrin degradation product.*

*D-Dimer is increased in : 1) DIC ( Disseminated Intravascular Coagulation ).*

*2) DVT ( Deep Vein Thrombosis ).*

*3) Hypercoagulable states.*

*4) Recent surgery, trauma, infection.*

*Increased levels may also be seen in the following conditions :*

*Liver disease, cardiac disease, rheumatoid arthritis, eclampsia, malignancy, hemolysis, lipemia & hyperbilirubinemia.*

*Please interpret with caution if patient is on anticoagulant therapy.*

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Page 10 of 13



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### Test Description

### Observed Value

### Biological Reference Interval

#### TEST NAME

25 - OH Vitamin D, serum by CMLA

22.60

Severe deficiency : < 10 ng/mL  
Mild to moderate deficiency : 10 to 19 ng/mL  
Optimum levels : 20 to 50 ng/mL  
Increased risk of hypercalciuria: 51 to 80 ng/mL  
Toxicity possible : > 80 ng/mL  
Ref. : Mayo Medical Laboratories  
These reference ranges represent  
clinical decision values, based on  
the 2011 Institute of Medicine report

### Interpretation :

Vitamin D is vital for strong bones. It also has important, emerging roles in immune function and cancer prevention.

Vitamin D compounds in the body are exogenously derived by dietary means; from plants as 25-hydroxyvitamin D2 (ergocalciferol or calciferol) or from animal products as 25-hydroxyvitamin D3 (cholecalciferol or calcidiol).

Vitamin D may also be endogenously derived by conversion of 7-dihydrocholesterol to 25-hydroxyvitamin D3 in the skin upon ultraviolet exposure.

The total 25-hydroxyvitamin D (25-OH-VitD) level (the sum of 25-OH-vitamin D2 and 25-OH-vitamin D3) is the appropriate indicator of vitamin D body stores.

Patients with renal failure can have very high 25-OH-VitD levels without any signs of toxicity, as renal conversion to the active hormone 1,25-OH-VitD is impaired or absent.

Kindly correlate clinically, with supplementation history & repeat with fresh sample if necessary.



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#### Test Description

CRP(hs) - C- Reactive Protein high sensitivity

#### Observed Value

**54.89**

#### Biological Reference Interval

See clinical information below

Method : Nephelometry / Immunoturbidimetry

#### On follow up. , Suggested follow up.

#### Clinical Information :

1. C-reactive protein (CRP) is a biomarker of inflammation. Plasma CRP concentrations increase rapidly and dramatically (100-fold or more) in response to tissue injury or inflammation.

2. High-sensitivity CRP (hs-CRP) is more precise than standard CRP when measuring baseline (i.e. normal) concentrations and enables a measure of chronic inflammation. It is recommended for cardiovascular risk assessment. Atherosclerosis is an inflammatory disease and hs-CRP has been endorsed by multiple guidelines as a biomarker of atherosclerotic cardiovascular disease risk.

Low cardiovascular risk : < 2.0 mg/L

High cardiovascular risk :  $\geq$  2.0 mg/L

Acute inflammation : > 10.0 mg/L

3. A single test for high-sensitivity CRP (hs-CRP) may not reflect an individual patient's basal hs-CRP level. Repeat measurement may be required to firmly establish an individual's basal hs-CRP concentration. The lowest of the measurements should be used as the predictive value.

Reference : Mayo Medical Laboratories

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### Test Description

Interleukin 6 (IL-6), serum by ECLIA

### Observed Value

**10.83**

### Biological Reference Interval

Upto 7 pg/mL

**Kindly correlate clinically and follow up.**

### Note :

IL-6 assay results may be affected by :

Sample integrity

Sample type (serum / plasma)

Treatment given

Assay platform used

Kindly interpret the result in view of the above factors and clinical details.

Please repeat on fresh sample if required. (Serum should be separated immediately after clotting).

\* Interleukin-6 (IL-6) is produced by different cell types, including macrophages, endothelial cells and T cells, in response to microbial invasion or other cytokines such as tumour necrosis factor (TNF).

\* IL-6 induces expression of C-reactive protein (CRP), fibrinogen and serum amyloid A also known as acute phase response.

\* Elevated IL-6 seen in :

Infections

Sepsis, septicemia

Rheumatoid arthritis

Systemic lupus erythematosus

Ankylosing spondylitis

Inflammatory Bowel Disease

\* IL-6 concentration correlate with severity of sepsis.

End of Report

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