

# REPORT

**AASHIESH GUPTA**  
Flat No-M-301, Marvel Diva,  
Magarpatta Road, Near Seasons Mall,  
Hadapsar, Pune-28  
Tel No: 918879699138  
PID: 11531066

Age:37.80 Years Sex:MALE

Reference:Dr.--

SID: 120196846

Collection Date:  
10-02-2021 11:27 AM  
Registration Date:  
10-02-2021 11:27 am  
Report Date:  
10-02-2021 08:04 PM

<u>Complete Blood Count</u>	<u>Result</u>	<u>Biological Reference Interval</u>
(EDTA Whole Blood)		
<b>Hemoglobin (Hb), EDTA whole blood</b>	<b>13.90</b>	14.0 - 17.50 g/dL
Method: Photometry		
<b>Total Leucocytes (WBC) count</b>	<b>6,000</b>	4000-10000/ $\mu$ L
Method : Coulter Principle / Microscopy		
<b>Platelet count</b>	<b>389,000</b>	150000 - 450000 / $\mu$ L
Method : Coulter Principle / Microscopy		
<b>Red blood cell (RBC) count</b>	<b>4.93</b>	4.52 - 5.90 x 10 <sup>6</sup> / $\mu$ L
Method: Coulter Principle		
<b>PCV (Packed Cell Volume)</b>	<b>42.20</b>	41.5 - 50.4 %
Method: Calculated		
<b>MCV (Mean Corpuscular Volume)</b>	<b>85.70</b>	80.0 - 96.0 fL
Method: Derived from RBC histogram		
<b>MCH (Mean Corpuscular Hb)</b>	<b>28.30</b>	27.5 - 33.2 pgms
Method: Calculated		
<b>MCHC (Mean Corpuscular Hb Conc.)</b>	<b>33.00</b>	33.4 - 35.5 g/dL
Method: Calculated		
<b>RDW (RBC distribution width)</b>	<b>13.30</b>	11.6 - 14.6 %
Method: Derived from RBC Histogram		
<b>WBC Differential Count</b>		
Method: VCSn / Microscopy / Calculated		
<b>Neutrophils</b>	<b>50</b>	40 - 80 %
<b>Absolute Neutrophils</b>	<b>3,000</b>	2000 - 7000 / $\mu$ L
<b>Eosinophils</b>	<b>06</b>	1 - 6 %
<b>Absolute Eosinophils</b>	<b>360</b>	20 - 500 / $\mu$ L
<b>Basophils</b>	<b>00</b>	0 - 2 %
<b>Absolute Basophils</b>	<b>0</b>	0 - 100 / $\mu$ L
<b>Lymphocytes</b>	<b>36</b>	20 - 40 %
<b>Absolute Lymphocytes</b>	<b>2,160</b>	1000 - 3000 / $\mu$ L
<b>Monocytes</b>	<b>08</b>	2 - 10 %
<b>Absolute Monocytes</b>	<b>480</b>	200 - 1000 / $\mu$ L
-	<-->	



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### Complete Blood Count Findings

R.B.C. : Normocytic, Normochromic

W.B.C. : No abnormality detected

Platelets : Adequate

Remark : --

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Test Description	Observed Value	Biological Reference Interval
<b><u>Lipid Profile Maxi :</u></b>		
Serum Appearance	Clear	
Cholesterol (Total), serum by Enzymatic method	117	Desirable : < 200 mg/dL Borderline high : 200 - 239 mg/dL High : >= 240 mg/dL
Triglycerides, serum by Enzymatic method	97	Normal : < 150 mg/dL Borderline high : 150-199 mg/dL High : 200-499 mg/dL Very high : >= 500 mg/dL
HDL Cholesterol, serum by Enzymatic method	35	Men : > 40 mg/dL Women : > 50 mg/dL
VLDL Cholesterol, serum by calculation	19	< 30 mg/dL
LDL Cholesterol, serum by calculation	63	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 : >= 190 mg/dL
Cholesterol(Total)/HDL Cholesterol Ratio	3.34	Males : Acceptable ratio <= 5.00 Females : Acceptable ratio <= 4.50
LDL Cholesterol/HDL Cholesterol Ratio	1.79	Males : Acceptable ratio <= 3.60 Females : Acceptable ratio <= 3.20
Apolipoprotein A1, serum by Nephelometry	127	Male : 110 to 205 mg/dL
Apolipoprotein B, serum by Nephelometry	58	55 to 140 mg/dL

## 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

### Liver Function Test :

Test Description	Observed	Biological Reference Interval
Bilirubin-Total, serum by Diazo method	0.70	0.10 - 1.20 mg/dL Neonates : Upto 15.0 mg/dL
Bilirubin-Conjugated, serum by Diazo method	0.32	Upto 0.5 mg/dL
Bilirubin-Unconjugated, serum by calculation	0.38	0.1 to 1.0 mg/dL
SGOT (AST), serum by Enzymatic method	31	>or= 14 years : 8 - 48 U/Lt
SGPT (ALT), serum by Enzymatic Method	41	7 to 55 U/Lt
Alkaline Phosphatase,serum by pNPP-kinetic	59	Adult Male : (Unit : U/Lt.) 15 - < 17 years : 82 - 331 17 - < 19 years : 55 - 149 > or = 19 years : 40 - 129
Protein (total), serum by Biuret method	6.50	6.4 to 8.2 g/dL
Albumin, serum by Bromocresol purple method	4.05	3.4 to 5.0 g/dL
Globulin, serum by calculation	2.45	2.3 - 3.5 g/dL

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Test Description	Observed Value	Biological Reference Interval
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### TEST NAME

Glycated Hemoglobin (HbA1C), by HPLC	<b>6.80</b>	4.0 to 5.6 %
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### 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 5 of 15



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**DIAGNOSTICS**

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Test Description	Observed Value	Biological Reference Interval
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**Gamma Glutamyl Transferase (GGT)**

Gamma GT(GGT),Serum by Carboxy substrate-kinetic	<b>44.00</b>	Male : (Unit : U/Lt.) 13 - 17 years : < 43 >or= 18 years : 8 - 61
--------------------------------------------------	--------------	-------------------------------------------------------------------------

### Interpretation

- \* GGT is used to diagnose and monitor hepatobiliary diseases.
- \* Increased GGT and Alkaline Phosphatase indicate hepatobiliary diseases.
- \* Normal GGT activity and increased Alkaline Phosphatase is consistent with skeletal disease.
- \* May be used a screening test for occult alcoholism.
- \* Elevated GGT is seen in :
  - 1) Intra or post hepatic biliary obstruction (5 to 30 times normal)
  - 2) *Infectious hepatitis (2 to 5 times normal)*
  - 3) *Alcoholism*
  - 4) *Sclerosing cholangitis*
  - 5) *Primary or secondary neoplasm*
  - 6) Medications such as phenytoin and phenobarbitone

Reference : Mayo Medical Laboratories, 2018 Interpretive Handbook.

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Test Description	Observed Value	Biological Reference Interval
<b><u>Plasma Glucose :</u></b>		
Plasma glucose fasting, by Hexokinase method	<b>113</b>	< 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
Plasma glucose post prandial, by Hexokinase method	<b><u>199</u></b>	< 140 mg/dL 140 to 199 mg/dL : Impaired glucose tolerance / Prediabetes >= 200 mg/dL : Suggestive of diabetes mellitus (On more than one occasion) American Diabetes Association Guidelines 2020

### **Clinical Chemistry**

Urea, serum by GLDH-urease	<b>20</b>	17 to 49 mg/dL
BUN-Blood Urea Nitrogen,serum by calculation	<b>9.35</b>	8 to 23 mg/dL
Creatinine, serum by Jaffe w/o deproteinization	<b>0.96</b>	0.6 to 1.2 mg/dL



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### Test Description

### Observed Value

### Biological Reference Interval

#### Clinical Chemistry :

Uric Acid, serum by Uricase method

**4.70**

Male : 3.50 to 7.20 mg/dL

*\* Uric acid is useful for 1. Diagnosis and follow up of renal failure. 2. Monitoring patients receiving cytotoxic drugs and a variety of other disorders, including gout, leukemia, psoriasis, starvation and other wasting conditions*

*. \* Increased uric acid is seen in following conditions :*

*1. Increased purine synthesis 2. Inherited metabolic disorders 3. Excess dietary purine intake  
4. Increased nucleic acid turnover 5. Malignancy, cytotoxic drugs 6. Decreased urinary excretion  
(due to CRF) 7. Increased renal reabsorption .*

*\* Uric acid is decreased in : 1. Hepatocellular disease with reduced purine synthesis  
2. Defective renal reabsorption 3. Overtreatment of uricemia (allopurinol or cancer  
therapies like 6-mercaptopurine, etc).*

Page 8 of 15



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### Test Description Clinical Chemistry :

### Observed Value

### Biological Reference Interval

Calcium, serum by OCPC method

**9.40**

Adult : 8.4 to 10.2 mg/dL

*Method : Colorimetric (o-cresolphthalein substrate) .*

- 1. Calcium is useful for diagnosis and monitoring of a wide range of disorders including diseases of bone, kidney, parathyroid gland, or gastrointestinal tract .*
- 2. Calcium ions play an important role in blood clotting, bone mineralization, musculature contractility and CNS functioning. .*
- 3. Hypocalcemia is due to the absence or impaired function of the parathyroid glands or impaired vitamin-D synthesis. Chronic renal failure is also frequently associated with hypocalcemia due to decreased vitamin-D synthesis as well as hyperphosphatemia and skeletal resistance to the action of parathyroid hormone (PTH).*
- 4. Hypercalcemia is mainly due to primary hyperparathyroidism (pHPT), and bone metastasis of carcinoma of the breast, thyroid gland, or lung. Severe hypercalcemia may result in cardiac arrhythmia.*



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### Test Description Clinical Chemistry :

### Observed Value

### Biological Reference Interval

### Hormones

Free T3, serum by CMIA	<b>2.04</b>	1.71 to 3.71 pg/mL
Free T4, serum by CMIA	<b>0.96</b>	0.71 to 1.85 ng/dL
TSH(Ultrasensitive), serum by CMIA	<b>0.82</b>	0.40 - 4.00 $\mu$ IU/mL



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Test Description	Observed Value	Biological Reference Interval
<u>TEST NAME</u>		

Vitamin B12, serum by CMIA	195.0	187 - 883 pg/mL
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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 <u>TEST NAME</u>	Observed Value	Reference range & Units
Homocysteine,plasma by CMIA	13.13	Male : 5.08 to 15.39 µmol/Lt

Homocysteine concentration is an indicator of acquired folate or cobalamin deficiency, and is a contributing factor in the pathogenesis of neural tube defects. Currently, the use of homocysteine for assessment of cardiovascular risk is uncertain and controversial. Based on several meta-analyses, at present, homocysteine may be regarded as a weak risk factor for coronary heart disease, and there is a lack of direct causal relationship between hyperhomocysteinemia and cardiovascular disease. It is most likely an indicator of poor lifestyle and diet. Homocysteine concentrations >13 mcmol/L are considered abnormal in patients evaluated for suspected nutritional deficiencies (B12, folate) and inborn errors of metabolism. Homocysteine concentrations < or =10 mcmol/L are desirable when utilized for cardiovascular risk.



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Test Description	Observed Value	Biological Reference Interval
<b>TEST NAME</b>		
25 - OH Vitamin D, serum by CMLA	<b><u>18.40</u></b>	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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## Urine Routine Examination

(Sample : Urine, Automated / Semiautomated)

### Physical

#### Quantity Examined

Method : Visual

#### Appearance

Method : Visual / Automated

#### Colour

Method : Visual / Automated

### Chemical (Dipstick)

#### pH

Method : Indicator Principle

#### Protein

Method : Sulphosalicylic Acid/ pH Indicator

#### Glucose

Method : GOD-POD / Benedict's

#### Acetone

Method : Sodium Nitroprusside reaction

#### Bile Pigments

Method : Diazo Reaction / Fouchet's test

#### Urobilinogen

Method : Modified Ehrlich / Watson Schwartz

### Microscopy / Flow cytometry

#### R.B.Cs

#### Pus cells

#### Epithelial cells

#### Casts

#### Crystals

-

## Result

5.0

Clear

Pale yellow

6.0

Present Trace

Absent

Absent

Absent

Not significant

1-2

2-3

1-2

Not Detected

Not Detected

@ @#

## Biological Reference Interval

ml

-

-

4.6 - 8.0

Absent

Absent

Absent

Absent

Not Significant

0 - 2 per hpf

0 - 5 per hpf

0 - 5 per hpf

-

-

Kindly correlate clinically and follow up.



Page 14 of 15

MC-3143

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Age:37.80 Years Sex:MALE

Reference:Dr.--

**SID: 120196846**

Collection Date:  
10-02-2021 11:27 AM  
Registration Date:  
10-02-2021 11:27 am  
Report Date:  
10-02-2021 08:04 PM

Test Description	Observed Value	Biological Reference Interval
SARS-CoV-2 IgG Antibodies, Serum by CMIA	<b>Negative (0.04)</b>	Negative : < 1.4 Index (S/C) Positive : >= 1.4 Index (S/C)

### Remarks :


- \* IgG test is not useful for diagnosis of acute infection.
- \* IgG antibodies usually appear after 2 weeks (14 days) of infection. Presence of IgG antibodies may / may not indicate immunity.
- \* Detection of IgG antibodies may be useful for :
  - Understanding whether an individual is exposed to infection with SARS-CoV-2 including asymptomatic individuals.
  - Understanding the seroprevalence in communities and especially high risk or vulnerable populations.

Reference : ICMR Advisory dated 23/06/2020

End of Report

Page 15 of 15

"Laboratory is accredited as per ISO 15189:2012, Certificate Number MC-3143. Scope available on request / @ www. .... A.G Diagnostics Pvt. Ltd.

  
**Dr. (Mrs.) Awanti Golwilkar Mehendale**  
MBBS,MD(Path) Regn.No:2000/02/1052  
A.G Diagnostics Pvt. Ltd.

Carrying forward  
Dr. Ajit Golwilkar's  
legacy of Over  
Four Decades

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**Dr. Awanti Golwilkar**  
MD (Pathology)

**Dr. Vinanti Golwilkar**  
MD (Pathology)