18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex:MALE

Reference: Dr. ANWAR S Z MBBS

Collection Date: 05-11-2020 10:30 AM Sample Date: 05-11-2020 11:38 am Report Date:

SID: 120126276

05-11-2020 04:06 PM

- · · · · · · · · · · · · · · · · · · ·		00 202
Complete Blood Count (EDTA Whole Blood)	<u>Result</u>	Biological Reference Interval
Hemoglobin (Hb), EDTA whole blood	14.40	14.0 - 17.50 g/dL
Method: Photometry		•
Total Leucocytes (WBC) count	10,200	4000-10000/μL
Method : Coulter Principle / Microscopy		
Platelet count	307,000	150000 - 450000 /µL
Method : Coulter Principle / Microscopy		
Red blood cell (RBC) count	5.07	4.52 - 5.90 x 10^6 /μL
Method: Coulter Principle		
PCV (Packed Cell Volume)	41.80	41.5 - 50.4 %
Method: Calculated		
MCV (Mean Corpuscular Volume)	82.50	80.0 - 96.0 fL
Method: Derived from RBC histogram		
MCH (Mean Corpuscular Hb)	28.30	27.5 - 33.2 pgms
Method: Calculated		
MCHC (Mean Corpuscular Hb Conc.)	34.30	33.4 - 35.5 g/dL
Method: Calculated		
RDW (RBC distribution width)	13.50	11.6 - 14.6 %
Method: Derived from RBC Histogram		
WBC Differential Count		
Method: VCSn / Microscopy / Calculated		
Neutrophils	54	40 - 80 %
Absolute Neutrophils	5,508	2000 - 7000 /μL
Eosinophils	4	1 - 6 %
Absolute Eosinophils	408	20 - 500 /μL
Basophils	0	0 - 2 %
Absolute Basophils	0	0 - 100 /μL
Lymphocytes	36	20 - 40 %
Absolute Lymphocytes	<u>3,672</u>	1000 - 3000 /μL
Monocytes	6	2 - 10 %
Absolute Monocytes	612	200 - 1000 /μL
-	@ @#	



Page 1 of 13

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

nehendale







18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex: MALE

Reference: Dr. ANWAR S Z MBBS

SID: 120126276
Collection Date:
05-11-2020 10:30 AM
Sample Date:
05-11-2020 11:38 am
Report Date:
05-11-2020 04:06 PM

Complete Blood Count Findings

R.B.C. : Normocytic, Normochromic

W.B.C. : No abnormality detected

Platelets : Adequate

Remark : --

.

-

•

.



Page 2 of 13

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

nehendale





18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex:MALE

Reference: Dr. ANWAR S Z MBBS

SID: 120126276 Collection Date: 05-11-2020 10:30 AM

Sample Date: 05-11-2020 11:38 am Report Date:

05-11-2020 04:06 PM

Test Desciption	Observed Value	Biological Reference Interval
<u>Lipid Profile Maxi :</u>		
Serum Appearance	Clear	
Cholesterol (Total), serum by Enzymatic method	186	Desirable: < 200 mg/dL Borderline high: 200 - 239 mg/dL High: >/= 240 mg/dL
Triglycerides, serum by Enzymatic method	<u>208</u>	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	<u>35</u>	Men: > 40 mg/dL Women: > 50 mg/dL
VLDL Cholestrol, serum by calculation	<u>42</u>	< 30 mg/dL
LDL Cholesterol, serum by calculation	109	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	<u>5.31</u>	Males : Acceptable ratio = 5.00 Females : Acceptable ratio </= 4.50</td
LDL Cholesterol/HDL Cholesterol Ratio	3.13	Males : Acceptable ratio = 3.60 Females : Acceptable ratio </= 3.20</td
Apolipoprotein A1, serum by Nephelometry	135	Male : 110 to 205 mg/dL
Apolipoprotein B, serum by Nephelometry	102	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.



Page 3 of 13

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

rehendale





18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

Reference:Dr.ANWAR S Z MBBS

SID: 120126276 Collection Date: 05-11-2020 10:30 AM Sample Date:

ite: PM

on Took .			
otion	Observed	Biological Reference Interval	
Age:39.70 Years Sex:MALE		05-11-2020 04:06 PM	
		Report Date	
PID: 194444		05-11-2020 11:38 ar	
101110. 010022001000		Cample Batt	

Test Description Liver Function Test:	Observed	Biological Reference Interval
Bilirubin-Total, serum by Diazo method	1.18	0.10 - 1.20 mg/dL Neonates : Upto 15.0 mg/dL
Bilirubin-Conjugated, serum by Diazo method	0.43	Upto 0.5 mg/dL
Bilirubin-Unconjugated, serum by calculation	0.75	0.1 to 1.0 mg/dL
SGOT (AST), serum by Enzymatic method	32	>or= 14 years : 8 - 48 U/Lt
SGPT (ALT), serum by Enzymatic Method	48	7 to 55 U/Lt
Alkaline Phosphatase,serum by pNPP-kinetic	84	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	7.23	6.4 to 8.2 g/dL
Albumin, serum by Bromocresol purple method	4.61	3.4 to 5.0 g/dL
Globulin, serum by calculation	2.62	2.3 - 3.5 g/dL

--XX--



Page 4 of 13



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



18 Suyojana Society Lane No 18 Koregaon Park Pune

Age:39.70 Years Sex: MALE

REPORT

Tel No: 919822034050

PID: 194444

Observed Value

05-11-2020 04:06 PM **Biological Reference Interval**

SID: 120126276

Collection Date:

Sample Date:

Report Date:

05-11-2020 10:30 AM

05-11-2020 11:38 am

TEST NAME

Test Description

Glycated Hemoglobin (HbA1C), by HPLC

5.60

4.0 to 5.6 %

Reference: Dr. ANW AR S Z MBBS

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 (>/= 18 yrs of age) :

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

>/= 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 13

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

rehendale





18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex: MALE

Reference: Dr. ANWAR S Z MBBS

Observed Value

Collection Date: 05-11-2020 10:30 AM Sample Date: 05-11-2020 11:38 am

Report Date:

SID: 120126276

05-11-2020 04:06 PM

Test Description

Gamma Glutamyl Transferase (GGT)

Gamma GT(GGT), Serum by Carboxy substrate-kinetic 30.00 Male: (Unit: U/Lt.)

13 - 17 years : < 43 >or= 18 years: 8 - 61

Biological Reference Interval

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.

--<>--



Page 6 of 13

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

ehendale

18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex: MALE

Reference: Dr. ANWAR S Z MBBS

Guidelines 2020

Collection Date: 05-11-2020 10:30 AM Sample Date: 05-11-2020 11:38 am Report Date: 05-11-2020 04:06 PM

SID: 120126276

Test Description Plasma Glucose:	Observed Value	Biological Reference Interval
Plasma glucose fasting, by Hexokinase method	87	< 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

Clinical Chemistry

Urea, serum by GLDH-urease	18	17 to 49 mg/dL
BUN-Blood Urea Nitrogen, serum by calculation	8.41	8 to 23 mg/dL
Creatinine, serum by Jaffe w/o deproteinization	0.79	0.6 to 1.2 mg/dL
Uric Acid, serum by Uricase method	6.60	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 therpies like 6-mercaptopurine, etc).



Page 7 of 13

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

rehendale





18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex:MALE

Reference: Dr. ANWAR S Z MBBS

SID: 120126276
Collection Date:
05-11-2020 10:30 AM
Sample Date:
05-11-2020 11:38 am

Report Date: 05-11-2020 04:06 PM

Test Description Observed Value Biological Reference Interval

Clinical Chemistry:

Calcium, serum by OCPC method 9.40 Adult: 8.4 to 10.2 mg/dL

Method : Colorimetric (o-cresolpthalein 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.



Page 8 of 13

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

rehendale

18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex:MALE

Reference: Dr. ANWAR S Z MBBS

SID: 120126276 Collection Date: 05-11-2020 10:30 AM Sample Date: 05-11-2020 11:38 am Report Date: 05-11-2020 04:06 PM

Test Description Clinical Chemistry:	Observed Value	Biological Reference Interval
<u>Hormones</u>		
Free T3, serum by CMIA	2.61	1.71 to 3.71 pg/mL
Free T4, serum by CMIA	0.82	0.71 to 1.85 ng/dL
TSH(Ultrasensitive), serum by CMIA	1.41	0.40 - 4.00 μIU/mL



Page 9 of 13

"Laboratory is accredited as per ISO 15189:2012, Certificate Number MC-3143. Scope available on request / @ wv

DIAGNOSTICS
BE SURE
BE WELL
ए.जी डायग्नॉस्टिक्स प्रा. लि._______A.G Diagnostics Pvt. Ltd.

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

Inchendale



MD (Pathology)

18 Suyojana Society Lane No 18 Koregaon Park Pune

Age:39.70 Years Sex:MALE

REPORT

Tel No: 919822034050

PID: 194444

Reference: Dr. ANWAR S Z MBBS

Collection Date: 05-11-2020 10:30 AM

SID: 120126276

Sample Date: 05-11-2020 11:38 am Report Date:

05-11-2020 04:06 PM

Test Description Observed Value Biological Reference Interval

TEST NAME

Vitamin B12, serum by CMIA 318.0 187 - 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.



Page 10 of 13

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

ehendale







18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex: MALE

Reference: Dr. ANW AR S Z MBBS

Collection Date: 05-11-2020 10:30 AM Sample Date:

SID: 120126276

05-11-2020 11:38 am Report Date:

05-11-2020 04:06 PM

Observed Value Biological Reference Interval

TEST NAME

Test Description

25 - OH Vitamin D, serum by CMIA 27.10 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:

Carrying forward

Four Decades

Dr. Ajit Golwilkar's legacy of Over

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



Page 11 of 13

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

MD (Pathology)

ehendale

18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex:MALE

Reference: Dr. ANWAR S Z MBBS

Collection Date: 05-11-2020 10:30 AM Sample Date: 05-11-2020 11:38 am Report Date:

SID: 120126276

05-11-2020 04:06 PM

9		
Urine Routine Examination	Result	Biological Reference Interval
(Sample : Urine, Automated / Semiautomated)		
<u>Physical</u>		
Quantity Examined	5.0	ml
Method : Visual		
Appearance	Clear	-
Method: Visual / Automated		
Colour	Pale yellow	-
Method: Visual / Automated		
Chemical (Dipstick)		
рН	6.5	4.6 - 8.0
Method : Indicator Principle		
Protein	Absent	Absent
Method: Sulphosalycylic Acid/ pH Indicator		
Glucose	Absent	Absent
Method: GOD-POD/Benedict's		
Acetone	Absent	Absent
Method: Sodium Nitroprusside reaction		
Bile Pigments	Absent	Absent
Method : Diazo Reaction / Fouchet's test		
Urobilinogen	Not significant	Not Significant
Method: Modified Ehrlich / Watson Schwartz		
Microscopy / Flow cytometry		
R.B.Cs	Absent	0 - 2 per hpf
Pus cells	1-2	0 - 5 per hpf
Epithelial cells	1-2	0 - 5 per hpf
Casts	Not detected	-
Crystals	Not detected	-



Page 12 of 13

"Laboratory is accredited as per ISO 15189:2012, Certificate Number MC-3143. Scope available on request / @ wv

@

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



18 Suyojana Society Lane No 18 Koregaon Park Pune

REPORT

Tel No: 919822034050

PID: 194444

Age:39.70 Years Sex: MALE

Reference: Dr. ANW AR S Z MBBS

Collection Date: 05-11-2020 10:30 AM Sample Date: 05-11-2020 11:38 am Report Date:

SID: 120126276

05-11-2020 04:06 PM

Test Description

CRP(hs) - C- Reactive Protein high sensitivity

Observed Value Biological Reference Interval

See clinical information below

Method: Nephelometry / Immunoturbidimetry

Clinical Information:

 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.

6.54

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 : >/= 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

End of Report

Dr.(Mrs.) Awanti Golwilkar Mehendale MD(Path) Regn.No.: 2000/02/1052 "Laboratory is accredited as per ISO 15189:2012, Certificate Number MC-3143. Scope available on request / @ wv A.G Diagnostics Pvt. Ltd.

rehendale

Page 13 of 13



