

424, Sindh Society, Lane No.4

Baner Road, Aundh Tel No: 919822403677

PID: 114462

Age:40.30 Years Sex:MALE

Reference:Dr.--

Sample Collected At: The Poona Club Ltd. 6,Bund Garden Road,

Pune 1 **Zone CA**

SID: 120525591

Collection Date: 19-03-2021 11:27 AM

120525591

Sample Date: 19-03-2021 11:27 am Report Date:

19-03-2021 03:00 PM

Observed Value Biological Reference Interval

Test Description Lipid Profile Mini :

Cholesterol (Total), serum by Enzymatic

method

170 Desirable : < 200 mg/dL

Borderline high: 200 - 239 mg/dL

High: >/= 240 mg/dL

Triglycerides, serum by Enzymatic method 161 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 36 Men : > 40 mg/dL

Women: > 50 mg/dL

VLDL Cholestrol, serum by calculation 32 < 30 mg/dL

LDL Cholesterol, serum by calculation 102 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 4.72 Males : Acceptable ratio </ = 5.00

Females : Acceptable ratio </= 4.50

LDL Cholesterol/HDL Cholesterol Ratio 2.83 Males: Acceptable ratio </= 3.60

Females: Acceptable ratio </= 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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REPORT

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Test Description Liver Function Test:	Observed	Biological Reference Interval
Bilirubin-Total, serum by Diazo method	0.90	0.10 - 1.20 mg/dL Neonates : Upto 15.0 mg/dL
Bilirubin-Conjugated, serum by Diazo method	0.31	Upto 0.5 mg/dL
Bilirubin-Unconjugated, serum by calculation	0.59	0.1 to 1.0 mg/dL
SGOT (AST), serum by Enzymatic method	16	>or= 14 years : 8 - 48 U/Lt
SGPT (ALT), serum by Enzymatic Method	23	7 to 55 U/Lt
Alkaline Phosphatase, serum by pNPP-kinetic	56	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	6.77	6.4 to 8.2 g/dL
Albumin, serum by Bromocresol purple method	4.16	3.4 to 5.0 g/dL
Globulin, serum by calculation	2.61	2.3 - 3.5 g/dL
Albumin - Globulin Ratio	1.59	Ratio



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Test Description Observed Value Biological Reference Interval

TEST NAME

REPORT

Glycated Hemoglobin (HbA1C), by HPLC 7.90 4.0 to 5.6 %

On follow up.

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)



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Test Description	Observed Value	Biological Reference Interval
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	0.78	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).



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Test Description Clinical Chemistry:

REPORT

Observed Value

Biological Reference Interval



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Carrying forward

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Test Description Observed Value Biological Reference Interval

TEST NAME

REPORT

Vitamin B12, serum by CMIA 220.0 187 - 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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Observed value **Biological Reference Interval**

HOMA Index Insulin Resistance Test

Plasma glucose fasting, by Hexokinase method 109 < 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 8.30 Fasting: 2.5 to 25 µU/mL

Peak upto 150 µU/mL

HOMA IR Index > 2.5 indicates insulin resistance 2.23

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/m²)
 - * 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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legacy of Over

Four Decades





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Test Description Observed Value Reference range & Units

TEST NAME

REPORT

Homocysteine, plasma by CMIA 10.83 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

REPORT

TEST NAME
25 - OH Vitamin D, serum by CMIA

Observed Value

69.30

Biological Reference Interval

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

? ON VIT D SUPPLEMENT.

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



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Test Description

REPORT

CRP(hs) - C- Reactive Protein high sensitivity

Observed Value

Biological Reference Interval

See clinical information below

Method: Nephelometry / Immunoturbidimetry

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.

2.34

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

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