

Age

Medical Laboratory Report

APL Code :APL-TS-180

Ref Doctor:

Ref Cust :Serum HEALTH CARE

Sample Type : NaF PLASMA

SID : **3968369**

Collected on : 2023-07-28 00:00

Path Labs India Pvt. Ltd.

Accurate clinical investigations

Regd on : 2023-07-28 16:57

Reported on : 2023-07-28 19:16



D.HARSHAN VARMA

: 19 Year(s)

CLINICAL BIOCHEMISTRY			
Test Description	Result	Units	Biological Reference Ranges
Plasma Glucose - Fasting (Method: Hexokinase)	75	mg/dL	Normal : 74 - 106 Impaired GT : 107 - 125 Diabetic : >or=126

4	> or =126	Diabetic	Its a group of metabolic disorders characterized by a high blood sugar level over a prolonged period of time
	101 - 125	Impaired GT	Impaired glucose tolerance means that blood glucose is raised beyond normal levels, but not high enough to warrant a diabetes diagnosis. With impaired glucose tolerance one can face a much greater risk of developing diabetes and cardiovascular disease.
	70-100	Normal	The American Diabetes Association recommends a routine screening for type 2 diabetes. If the results are normal, the screening should be repeated every 3 years.



Manager Technical





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Sample Type : SERUM

SID : **3968233**

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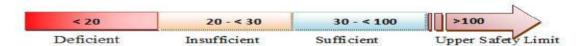
D.HARSHAN VARMA

: 19 Year(s)

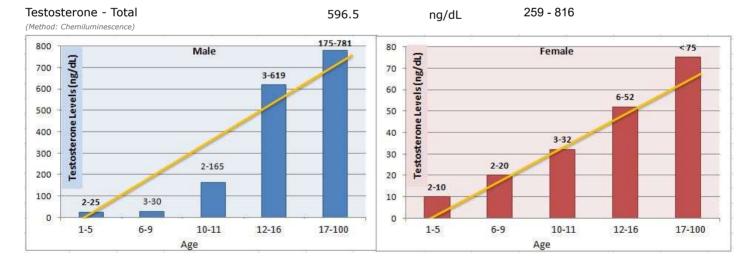
CLINICAL BIOCHEMISTRY				
Test Description	Result	Units	Biological Reference Ranges	
Calcium (Method: Spectrophotometry(Cresol Complex))	9.3	mg/dL	8.8 - 10.6	
25-Hydroxy Vitamin D Total (D2 & D3) (Method: Chemiluminescence)	<u>20.70</u>	ng/mL	Deficient : <20 Insufficient : 20 to <30 Sufficient : 30-100 Upper Safety Limit : >100	

Interpretation:

Vitamin D levels in ng/mL



Vitamin D has several important functions. Perhaps the most vital are regulating the absorption of calcium and phosphorus, and facilitating normal immune system function. Getting a sufficient amount of vitamin D is important for normal growth and development of bones and teeth, as well as improved resistance against certain diseases. If body doesn't get enough vitamin D, risk of developing bone abnormalities such as soft bones (osteomalacia) or fragile bones (osteoporosis). Few foods contain vitamin D naturally. Foods that contain vitamin D include:salmon,sardines,egg yolk, shrimp, milk (fortified),cereal (fortified),yogurt (fortified),orange juice (fortified). It can be hard to get enough vitamin D each day through sun exposure and food alone, so taking vitamin D supplements can help.



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Deficiency

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Normal

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est Description	Result	Units	Biological Reference Ranges
Vitamin - B12 (Method: Chemiluminescence)	200	Pg/mL	Deficiency : < 145 Indeterminate : 145 – 180 Normal : 180 - 914
Interpretation :	tamin B12 Levels in	n Pg/mL	

Deficient levels of vitamin B12 may cause megaloblastic anemia and peripheral neuropathies. Follow-up with a test for antibodies to intrinsic factor is recommended to identify this potential cause of vitamin B12 malabsorption. For specimens without antibodies and the patient is symptomatic, follow-up testing for vitamin B12 tissue deficiency may be indicated. Plasma homocysteine measurement (HCYSP/Homocysteine,Total,Plasma) is a good screening test where a normal level effectively excludes vitamin B12 and folate deficiency in an asymptomatic patient. However, the test is not specific and many situations can cause an increased level.

Indeterminate

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CLINICAL BIOCHEMISTRY				
Test Description	Result	Units	Biological Reference Ranges	
LIPID PROFILE				
Cholesterol - Total (Method: CHOD/PAP)	159	mg/dL	< 200 : Desirable 200-239 : Borderline risk > 240 : High risk	
Cholesterol - HDL (Method: Direct)	45	mg/dL	< 40 : Low 40 - 60 : Optimal > 60 : Desirable	
Cholesterol - LDL (Method: Homogeneous enzymatic end point assay)	94	mg/dL	< 100 : Normal 100 - 129 : Desirable 130 – 159 : Borderline-High 160 – 189 : High > 190 : Very High	
Cholesterol VLDL (Method: Calculation)	20.2	mg/dL	7 - 40	
Triglycerides (Method: Lipase / Glycerol Kinase)	101	mg/dL	< 150 : Normal 150–199 : Borderline-High 200–499 : High > 500 : Very High	
Total cholesterol/HDL ratio (Method: Calculation)	3.5	Ratio	0 - 5.0	
LDL / HDL Ratio (Method: Calculation)	2.1	Ratio	0 - 3.5	

Interpretation:
Lipid profile can me

Triglycerides:

Lipid profile can measure the amount of Total cholesterol's and triglycerides in blood:

Test Comment

Total cholesterol: measures all the cholesterol in all the lipoprotein particles

High-density lipoprotein cholesterol (HDL-C): measures the cholesterol in HDL particles; ofto

measures the cholesterol in HDL particles; often called "good cholesterol" because HDL-C takes up excess cholesterol and carries it to

the liver for removal.

Low-density lipoprotein cholesterol (LDL-C): measures the cholesterol in LDL particles; often called "bad cholesterol" because it deposits excess cholesterol in walls of blood vessels, which

can contribute to atherosclerosis

measures all the triglycerides in all the lipoprotein particles; most is in the very low-density lipoproteins (VLDL).

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Ch.Samuel Manager Technical





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CLINICAL BIOCHEMISTRY					
Test Description	Result	Units	Biological Reference Ranges		
IRON PROFILE					
Iron (Method: Ferene)	<u>47.7</u>	μg/dL	70 - 180		
Iron Binding Capacity - Total (TIBC) (Method: Ferrozine)	352	μg/dL	240 - 450		
Transferrin (Method: Immunoturbidometry)	239.5	μg/dL	176 - 280		
Transferrin % (Method: Calculation)	<u>13.6</u>	%	20 - 50		

Interpretation:

Iron participates in a variety of vital processes in the body varying from cellular oxidative mechanisms to the transport and delivery of oxygen to body cells.

Serum iron concentration is decreased in many but not all patients with iron deficiency anemia; in acute or chronic inflammatory disorders such as acute infection, immunisation, and myocardial infarction; acute or recent haemorrhage; malignancy; kwashiorkor; late pregnancy; menstruation and nephrosis.

Iron levels may also be increased in acute hepatitis, lead poisoning, acute leukaemia, thalassemia or oral contraception.TIBC is decreased in chronic infections, malignancy, in iron poisoning, renal disease, nephrosis, kwashiorkor and thalassemia. Common causes for an increase in TIBC include iron deficiency anemia, late pregnancy, oral contraception and viral hepatitis.

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CLINICAL BIOCHEMISTRY				
Test Description	Result	Units	Biological Reference Ranges	
KIDNEY BASIC SCREEN				
Creatinine(Serum) (Method: JAFFE-Kinetic)	0.9	mg/dL	0.7 - 1.3	
Urea (Serum) (Method: UV-Kinetic)	27.3	mg/dL	17 - 43	
Blood Urea Nitrogen (BUN) (Method: Calculation)	12.8	mg/dL	6.0 - 20.0	
Blood Urea Nitrogen (BUN)/Creatinine (Method: Calculation)	14.2	ratio	6 - 22	
Sodium(Serum) (Method: ISE Direct)	141	mmol/L	135 - 150	
Potassium(Serum) (Method: ISE Direct)	4.0	mmol/L	3.5 - 5.0	
Chloride(Serum) (Method: ISE Direct)	106	mmol/L	94 - 110	
Uric Acid (Method: Uricase)	4.0	mg/dL	3.5 - 7.2	



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	CLINICAL BIO	CHEMISTRY	
Test Description	Result	Units	Biological Reference Ranges
LIVER FUNCTION PROFILE			
Bilirubin Total (Method: Diazotised Sulphanilic Acid)	0.9	mg/dL	0.3 - 1.2
Bilirubin Direct (Method: Diazotised Sulphanilic Acid)	0.2	mg/dL	< 0.2
Bilirubin Indirect (Method: Calculation)	0.7	mg/dL	0 - 1.0
Alkaline Phosphatase (ALP) (Method: AMP Buffer)	52	U/L	30 - 120
Alanine Transaminase (ALT) (Method: UV with pyridoxal - 5 - phosphate)	15	U/L	< 50
Aspartate Aminotransferase(AST) (Method: UV with Pyridoxal-5-phosphate)	21	U/L	< 50
Y- Glutamyl Transferase (GGT) (Method: g-Glut-3-carboxy-4 nitro)	30	U/L	< 55
Protein Total (Method: BIURET)	7.8	g/dL	6.6 - 8.3
Albumin (Method: Bromocresol Purple)	4.6	g/dL	3.5 - 5.2
Globulin (Method: Calculated)	3.2	g/dL	2.5 - 3.5
Albumin / Globulin Ratio (Method: Calculation)	1.4	ratio	1.0 - 2.1

Interpretation:

- Liver function test aid in the diagnosis of various pre hepatic, hepatic & post hepatic causes of dysfuntion in anemias, viral & alcoholic hepatitis and cholestasis of obstructive causes.
- The test encompasses hepatic excreatory, synthetic function and also hepatic parenchymal cell damage.
- LFT helps in evaluating severity, monitoring therapy and assessing prognosis of liver disease and dysfunction.

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Gender: Male Ref Cust :Serum HEALTH CARE

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: SERUM

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CLINICAL BIOCHEMISTRY					
Test Description	Result	Units	Biological Reference Ranges		
THYROID PANEL I					
TriIodothyronine Total (TT3) (Method: Chemiluminescence)	93.03	ng/dL	80 - 253 : 1 Yr-10 Yr, 76 - 199 : 11 Yr-15 Yr, 69 - 201 : 16 Yr-18 Yr, 87 - 178 : > 18 years.		
Thyroxine - Total (TT4) (Method: Chemiluminescence)	8.58	μg/dL	5.9 - 21.5 : 0 -31 Days, 5.9 - 21.5 : 0 - 1 Month 6.4 - 13.9 : 2-12 Months 6.09 - 12.23 : >1 Yr		
Thyroid Stimulating Hormone (TSH) (Method: Ultra-sensitive chemiluminescence)	4.42	μIU/mL	0.52-16.0 : 1 Day - 30 Days 0.55-7.10 : 1 Mon-5 Years 0.37-6.00 : 6 Yrs-18 Years 0.38-5.33 : 18 Yrs-88 Years 0.50-8.90 : > 88 Years		

Clinical features of thyroid disease Hypothyroidism Hyperthyroidism Lethargy Tachycardia Exophthalmos/proptosis Weight gain Palpitations (atrial fibrillation) Chemosis Cold intolerance Hyperactivity Diffuse symmetrical goitre Weight loss with increased appetite Constipation Pretibial myxoedema (rare) Hair loss Heat intolerance Other autoimmune conditions Dry skin Sweating Thyroid bruit Depression Diarrhoea Bradycardia Fine tremor Memory impairment Hyper-reflexia Menorrhagia Goitre Palmar erythema Onycholysis Muscle weakness and wasting Oligomenorrhea/amenorrhoea



Manager Technical





Age

Medical Laboratory Report

APL Code :APL-TS-180

Ref Doctor:

Ref Cust :Serum HEALTH CARE

Sample Type : WB EDTA

Regd on

SID : **3968432**

Collected on : 2023-07-28 00:00

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Reported on : 2023-07-28 20:01



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: 19 Year(s)

CI	LINICAL BIOCH	EMISTRY		
Test Description	Result	Units	Biological Reference Ranges	
GLYCOSYLATED HEMOGLOBIN (HbA1c) (Method: ion-exchange high-performance liquid chromatography(HPLC))				
Hemoglobin A1c (HbA1c)	5.2	%	< 6 : Non Diabetic 6-7 : Good Control 7-8 : Poor Control > 8 : Alert	
Estimated average glucose (eAG)	102.54	%	HbA1c(%): eAG(mg/dL) 6 : 125 6.5 : 140 7 : 154 7.5 : 169 8 : 183 8.5 : 197 9 : 212 9.5 : 226 10 : 240	
The A1c test is common blood test used to identify	HbA1c(%)	eAG(mg/dl)	Condition Sever	ity
prediabetes ,diagnose type 1 and type 2 diabetes and to	6.0	125	Non Diabetic : < 6.0	
monitor how diabetes is managing. The A1c test result reflects your average blood glucose levels for the past	6.5 7.0	140 154	Good Control : 6.0 - < 7.0	
two to three months <i>American Diabetes Association</i> recommends HbA1c monitoring frequency should be	7.5 8.0	169 183	Poor Control : 7.0 - < 8.0	
quarterly, particularly in case with suboptimal HbA1c	8.5	197		

9.0

9.5

10.0

212

226

240

Ch.Samuel

Manager Technical

conditions.



Dr S.V.RAMANA MD PATHOLOGIST

Diabetic > 8.0



Age



APL Code :APL-TS-180

Ref Doctor:

Ref Cust :Serum HEALTH CARE

Sample Type : Urine

SID : **3968133**

Collected on : 2023-07-28 00:00

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: 19 Year(s)

	CLINICAL PATHOLOGY				
Test Description	Result	Units	Biological Reference Ranges		
Complete Urine Analysis (CUE) (Method: Strip/Microscopy)					
Colour	Pale Yellow				
Appearence	Clear				
Specific gravity	1.010		1.000 - 1.030		
Reaction (pH)	6.0		5.0 - 8.5		
Proteins	Nil		Negative		
Glucose	Nil		Negative		
Bile Salts & Bile Pigments	Negative		Negative		
Ketones	Negative		Negative		
Blood	Negative		Negative		
Urobilinogen	Normal		Normal		
Nitrites	Negative		Negative		
PUS (WBC) Cells	3-4		0 - 5/HPF		
Urine RBC	Nil		Nil		
Urine Epithelial Cells	2-3		0 - 5/HPF		
Casts & Crystals	Nil		Nil		
Others	Nil				

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: 19 Year(s)

HAEMATOLOGY				
Test Description	Result	Units	Biological Reference Ranges	
Erythrocyte Sedimentation Rate (ESR) (Method: Westergren's method)	10	mm/Hour	<10	

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Ch.Vinav Kumar Group Leader





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	HAEMAT	HAEMATOLOGY		
Test Description	Result	Units	Biological Reference Ranges	
COMPLETE BLOOD PICTURE				
Hemoglobin	14.3	g/dL	13.0 - 18.0	
(Method: Spectrophotometry) Erythrocyte Count (RBC Count) (Method: Impedance)	4.90	mil/μL	4.5 - 5.5	
Packed Cell Volume(Hematocrit) (Method: Calculated)	44.4	%	40 - 54	
Platelet Count (Method: Impedance/ Microscopy)	1.99	lakh/Cumm	1.50 - 4.50	
Red Cell Indices (Method: Automated 5 part Cell counter/ Calculated)				
MCV	91	fl	83 - 101	
MCH	29.2	pg	27 - 32	
MCHC	32.2	g/dL	31.5 - 34.5	
RDW-CV	13.6	%	11.5 - 14.5	
Total Count and Differential Count (Method: Impedance/Microscopy)				
Total Leucocyte Count(WBC)	6200	cells/Cumm	4000 - 11000	
Neutrophils	40	%	40 - 75	
Lymphocytes	<u>50</u>	%	20 - 40	
Eosinophils	03	%	0 - 6	
Monocytes	07	%	2 - 10	
Basophils	00	%	0 - 1	
Microscopic Blood Picture (Method: Microscopy)				
RBC Morphology	Normocytic	Normocytic Normochromic Cells		
WBC Morphology	Relative Lymphocytosis.			
Platelet Morphology	Adequate			
Hemoparasites	Not found			
Impression	Relative Lymphocytosis.			
Advise	Correlate Clinically			

Ciernay



