

Age/Sex : 36 Yrs. / F

COMPLETE BLOOD COUNT (CBC)

Test	Result	Unit	Biological Ref. Range
HAEMOGLOBIN	: 9.7	gms%	12.0-16.0 gms%
R.B.C. Count	: 4.16	millions/cumm	4.2-5.5 millions/cumm
PCV	: 27.30	%	37-47 %
MCV	: 65.63	fL	80-96 fL
MCHC	: 35.40	gm/dL	32.5-36 gm/dL
MCH	: 23.30	Pg	27-32 Pg
RDW-CV	: 17.00	%	11-14.5 %
RDW-SD	: 45.00	fL	39-46 fL
Platelet Count	: 204000	/uL	150000-450000 /uL
MPV	: 10.10	fL	3-12 fL
PDW	: 15.80	%	10-20 %
W.B.C. Count (TLC)	: 5340	/cumm	4000-11000 /cumm

DIFFERENTIAL COUNT:

Neutrophils	: 55.30	%	40-70 %
Lymphocytes	: 37.20	%	20-40 %
Monocytes	: 6.30	%	2-10 %
Eosinophils	: 1.20	%	1-6 %
Basophils	: 0	%	0-1 %
P-LCR	: 30.70	%	15-45 %
Absolute Neutrophil Count	: 2953.02	/ cmm	1500 - 8000 / cmm
Absolute Lymphocyte Count	: 1986.48	/ cmm	1000-4800 / cmm
Absolute Monocytes Count	: 336.42	/cumm	100 - 1000 /cumm
Absolute Eosinophil Count	: 64	/cumm	40-440 /cumm
Absolute Basophil Count	: 0.00	/uL	0-100 /uL

SMEAR EXAMINATION

RBC Morphology	: Microcytosis, Hypochromasia & mild Anisopoikilocytosis
WBC Morphology	: Within normal limit
Platelets on Smear	: Adequate on smear.

Method:- Impedance for RBC & PLT, Cyanide free reagent for Hb, FlowCytometry+Tri-angle laser scatter+Chemical dye for WBC 5-part differential analysis.

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ESR (Erythrocyte Sedimentation Rate)

Test	Result	Unit	Biological Ref. Range
E.S.R (by WESTERGREN)	: 18	mm at 1hr	0-20 mm at 1hr

GLUCOSE - FASTING

Test	Result	Unit	Biological Ref. Range
Blood Sugar - Fasting	: 80	mg/dL	74 - 100 mg/dL

Method:- GOD/POD

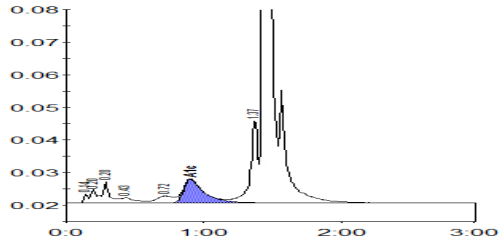
HbA1c (Glycosylated Hemoglobin)

Test	Result	Unit	Biological Ref. Range
HbA1C	: 5.30	%	Normal: <5.7 ; Prediabetic: 5.7-6.4 Diabetic: >=6.5 For known Diabetic (control):- Good: < 6.5 ; Fair: 6.5-7.4 Unsatisfactory: 7.0-8.0 ; Poor: > 8.0

Method: HPLC

Mean Blood Glucose (MBG)	: 105.41	mg/dL
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Method: Calculated



CALCIUM, Serum

Test	Result	Unit	Biological Ref. Range
Calcium, Serum	: 9.61	mg/dL	8.6 - 10.3 mg/dL

Method: Arsenazo III

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IRON STUDIES (Iron & TIBC)

Test	Result	Unit	Biological Ref. Range
IRON	: 37	ug/dL	28-170 ug/dL
Total Iron binding Capacity (TIBC)	: 359	ug/dL	250-400 ug/dl ug/dL
Transferrin Saturation	: 10.31	%	20 - 50 %

Method: Ferene

Note:- Serum iron measures the level of iron in the liquid portion of the blood. Low iron levels maybe seen in anemia (microcytic and hypochromic). High levels of serum iron in hereditary hemochromatosis, multiple blood transfusions, and a few other conditions. TIBC (Total iron-binding capacity) measures all the proteins in blood available to bind with iron, including transferrin. TIBC test is a good indirect measurement of transferrin.

RENAL FUNCTION TESTS

Test	Result	Unit	Biological Ref. Range
Blood Urea	: 19	mg/dL	13 - 43 mg/dL
Method:- Urease UV/GLDH			
BUN (Blood Urea Nitrogen)	: 8.86	mg/dL	5 - 21 mg/dL
Method: Calculated			
Creatinine, Serum	: 0.66	mg/dL	0.50 - 1.20 mg/dL
Method: Enzymatic - Kinetic			
Uric Acid, Serum	: 4.40	mg/dL	2.6 - 6.0 mg/dL
Method:- Uricase Enzymatic - colorimetric			
BUN/Creat Ratio	: 13.42		5-20

Method:- Calculation

VITAMIN B12

Test	Result	Unit	Biological Ref. Range
VITAMIN B12	: 381.0	pg/mL	110-800 pg/mL

METHOD :- Chemin-Luminescence Immunoassay (CLIA).

Clinical significance: Vitamin B12 or Cyanocobalamin, is a complex corrinoid compound found exclusively from animal dietary sources, such as meat eggs and milk. It is critical in normal DNA synthesis, which in turn affects erythrocyte maturation and in the formation of myelin sheath. Vitamin-B12 is used to find out neurological abnormalities and impaired DNA synthesis associated with macrocytic anemias.

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VITAMIN D Total (25-OH)

Test	Result	Unit	Biological Ref. Range
VITAMIN D Total (25-OH)	: 19.07	ng/mL	Deficiency : < 20 Insufficiency: 21-30 Sufficient : 31-100 Toxic : >100

Method:- Chemi-Luminescence Immunoassay (CLIA)

Note:- Vitamin D is a fat soluble vitamin and exists in two main forms as cholecalciferol (vitamin D3) which is synthesized in skin from 7-dehydrocholesterol in response to sunlight exposure & Ergocalciferol(vitamin D2) present mainly in dietary sources. Both Cholecalciferol & Ergocalciferol are converted to 25(OH). A low blood level of 25-hydroxyvitamin D may mean that a person is not getting enough exposure to sunlight or enough dietary vitamin D to meet his or her body's demand or that there is a problem with its absorption from the intestines.

Thyroid Function Test (ultra)

Test	Result	Unit	Biological Ref. Range
T3 - Triiodothyronine	: 1.14	ng/mL	0.69 - 2.15 ng/mL
T4 - Thyroxine	: 7.85	mcg/dL	5.2 - 12.7 mcg/dL
TSH (ultra)	: 2.19	mIU/mL	0.30 - 4.5 mIU/mL

Method:- Chemi-Luminescence ImmunoAssay (CLIA)

NOTE: Primary malfunction of thyroid gland may result in excessive (hyper) or below normal (hypo) release of T3 or T4. In addition, as TSH directly affects thyroid function, malfunction of pituitary or the hypothalamus influences the thyroid gland activity. Disease of any portion the thyroid-pituitary-hypothalamus system may influence the levels of T3 and T4 in the blood.

FOR PREGNANT WOMEN	T3 (ng / dl)	T4 (ng / dl)	TSH (uIU/ml)
1 st TRIMESTER	81.1 -176.6	5.61 – 13.3	0.0878 – 2.8
2 nd TRIMESTER	92.8 – 205.1	7.36 14.18	0.1998 – 2.8
3 rd TRIMESTER	90.9 – 205.1	7.37 – 15.02	0.307 – 2.9

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LIPID PROFILE (Cholesterol Panel)

Test	Result	Unit	Biological Ref. Range
Total Cholesterol	: 142	mg/dL	Desirable: < 200 Borderline : 200 - 239 High Risk : > 240
Triglycerides	: 104	mg/dL	Desirable : < 150 Borderline High : 150 - 199 High : 200 - 499 High Risk : > 500
HDL Cholesterol	: 44	mg/dL	No Risk >60 Moderate Risk 40 - 60 High Risk <40
LDL Cholesterol	: 77.2	mg/dL	Normal: < 100 Desirable: 100 - 129 Borderline High : 130 - 159 High : 160 - 189 Very High : > 190
Method : Calculation VLDL Cholesterol	: 20.8	mg/dL	5-30 mg/dL
Method : Calculation TC/HDL Ratio	: 3.2		0-5.0
Method : Calculation LDL/HDL Ratio	: 1.8		0-3.5
Method : Calculation			

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LIVER FUNCTION TEST (LFT)

Test	Result	Unit	Biological Ref. Range
Bilirubin (Total) Method: <i>NBD (p-nitrobenzene diazonium)</i>	: 0.70	mg/dL	0 - 1.2 mg/dL
Bilirubin (Direct) Method: <i>Diazotized Sulfanilic Acid</i>	: 0.20	mg/dL	0 - 0.3 mg/dL
Bilirubin (Indirect) Method: <i>Calculated</i>	: 0.50	mg/dL	0.1 - 1.0 mg/dL
SGOT (AST) Method: <i>UV Kinetic</i>	: 14	IU/L	0 - 31 IU/L
SGPT (ALT) Method: <i>UV Kinetic</i>	: 19	U/L	0-34 U/L
Alkaline Phosphatase (ALP) Method: <i>PNP AMP Kinetic</i>	: 78	U/L	35 - 100 U/L
Total Proteins Method: <i>Biuret</i>	: 7.40	gm/dL	6.4 - 8.3 gm/dL
Albumin Fraction Method : <i>Capillary electrophoresis</i>	: 3.90	g/dL	3.5 - 5.2 g/dL
Globulin Method: <i>Calculated</i>	: 3.50	gm/dL	2.3-3.5 gm/dL
A/G Ratio Method: <i>Calculated</i>	: 1.11		0.90-2.00

GAMMA GT (GGT)

Test	Result	Unit	Biological Ref. Range
SERUM GAMMA GT Method:- <i>IFCC</i>	: 17.1	U/L	5 - 60 U/L

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URINE ROUTINE EXAMINATION

Test	Result	Biological Ref. Range
Volume :	10 ml	
Colour :	Pale Yellow	
Appearance :	Clear	
Reaction (pH) :	6.5	4.5 - 8.0
Specific Gravity :	1.020	1.010 - 1.030
Protein :	Absent	Absent
Sugar :	Absent	Absent
Ketones Bodies, Serum :	Absent	mmol/L < 0.4 mmol/L
Method:- Enzymatic		
Blood :	Absent	Absent
Urobilinogen :	Absent	Normal
Bile Salts :	Absent	
Bile Pigments :	Absent	
Nitrate :	Absent	
Leucocyte Esterase :	Absent	
Pus cells :	1-2 / hpf	0 - 5 / hpf
Epithelial Cells :	2-3 / hpf	0 - 5 / hpf
Red Blood Cells :	Absent / hpf	
Casts :	Absent / hpf	Absent / hpf
Crystals :	Absent	Absent
Amorphous Deposits :	Absent	Absent
Yeast Cells :	Absent	Absent
Bacteria :	Absent	Absent

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