Age/Sex : 39 Yrs. / F

COMPLETE BLOOD COUNT (CBC)

Test		Result	Unit	Biological Ref. Range
HAEMOGLOBIN	:	**10.6**	gms%	12.0-16.0 gms%
R.B.C. Count	:	**4.10**	millions/cumm	4.2-5.5 millions/cumm
PCV	:	**29.20**	%	37-47 %
MCV	:	**71.22**	fl	80-96 fl
MCHC	:	34.20	gm/dL	32.5-36 gm/dL
MCH	:	**25.70**	Pg	27-32 Pg
RDW-CV	:	**16.30**	%	11-14.5 %
RDW-SD	:	**53.00**	fL	39-46 fL
Platelet Count	:	284000	/ul	150000-450000 /ul
MPV	:	10.70	fL	3-12 fL
PDW	:	16.10	%	10-20 %
W.B.C. Count (TLC)	:	6760	/cumm	4000-11000 /cumm
DIFFERENTIAL COUNT:				
Neutrophils	:	55.60	%	40-70 %
Lymphocytes	:	39.90	%	20-40 %
Monocytes	:	3.40	%	2-10 %
Eosoniphils	:	1.10	%	1-6 %
Basophils	:	0	%	0-1 %
P-LCR	:	35.60	%	15-45 %
Absolute Neutrophil Count	:	3758.56	/ cmm	1500 - 8000 / cmm
Absolute Lymphocyte Count	:	2697.24	/ cmm	1000-4800 / cmm
Absolute Monocytes Count	:	229.84	/cumm	100 - 1000 /cumm
Absolute Eosinophil Count	:	74	/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.

---------- End Of Report ----------

Age/Sex : 39 Yrs. / F

ESR (Erythrocyte Sedimentation Rate)

Test		Result	Unit	Biological Ref. Range
E.S.R (by WESTERGREN)	:	17	mm at 1hr	0-20 mm at 1hr

GLUCOSE - FASTING

Test		Result	Unit	Biological Ref. Range
Blood Sugar - Fasting	:	91	mg/dL	74 - 100 mg/dL

Method:- *GOD/POD*

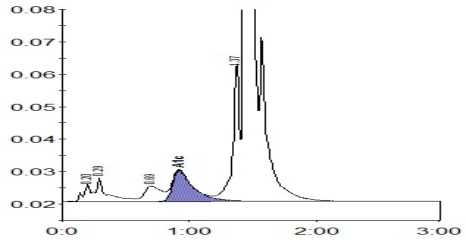
HbA1c (Glycosylated Hemoglobin)

Test		Result	Unit	Biological Ref. Range
HbA1C	:	5.80	%	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)	:	119.76	mg/dL	

Method: Calculated



CALCIUM, Serum

Test		Result	Unit	Biological Ref. Range
Calcium, Serum	:	9.33	mg/dL	8.6 - 10.3 mg/dL

Method: *Arsenazo III*

Age/Sex : 39 Yrs. / F

IRON STUDIES (Iron & TIBC)

Test		Result	Unit	Biological Ref. Range
IRON	:	36	ug/dL	28-170 ug/dL
Total Iron binding Capacity (TIBC)	:	356	ug/dL	250-400 ug/dl ug/dL
Transferin Saturation	:	**10.11**	%	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	:	21	mg/dL	13 - 43 mg/dL

Method:- *Urease UV/GLDH*

BUN (Blood Urea Nitrogen)	:	9.79	mg/dL	5 - 21 mg/dL

Method: *Calculated*

Creatinine, Serum	:	0.68	mg/dL	0.50 - 1.20 mg/dL

Method: *Enzymatic - Kinetic*

Uric Acid, Serum	:	3.32	mg/dL	2.6 - 6.0 mg/dL

Method:- *Uricase Enzymatic - colorimetric*

BUN/Creat Ratio	:	14.40		5-20

Method:- *Calculation*

VITAMIN B12

Test		Result	Unit	Biological Ref. Range
VITAMIN B12	:	302.0	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.

Age/Sex : 39 Yrs. / F

VITAMIN D Total (25-OH)

Test		Result	Unit	Biological Ref. Range
VITAMIN D Total (25-OH)	:	**22.80**	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	:	1.02	ng/mL	0.69 - 2.15 ng/mL
T4 - Thyroxine	:	6.54	mcg/dL	5.2 - 12.7 mcg/dL
TSH (ultra)	:	**4.87**	mlU/mL	0.30 - 4.5 mlU/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 (ulU/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

---------- End Of Report ----------

Age/Sex : 39 Yrs. / F

LIPID PROFILE (Cholesterol Panel)

Test		Result	Unit	Biological Ref. Range
Total Cholesterol	:	144	mg/dL	Desirable: < 200 Borderline : 200 - 239 High Risk : > 240
Triglycerides	:	111	mg/dL	Desirable : < 150 Borderline High : 150 - 199 High : 200 - 499 High Risk : > 500
HDL Cholesterol	:	48	mg/dL	No Risk >60 Moderate Risk 40 - 60 High Risk <40
LDL Cholesterol	:	73.8	mg/dL	Normal: < 100 Desirable: 100 - 129 Borderline High : 130 - 159 High : 160 - 189 Very High : > 190
Method : *Calculation*				
VLDL Cholesterol	:	22.2	mg/dL	5-30 mg/dL
Method : *Calculation*				
TC/HDL Ratio	:	3.0		0-5.0
Method : *Calculation*				
LDL/HDL Ratio	:	1.5		0-3.5
Method : *Calculation*				

Age/Sex : 39 Yrs. / F

LIVER FUNCTION TEST (LFT)

Test		Result	Unit	Biological Ref. Range
Bilirubin (Total)	:	0.60	mg/dL	0 - 1.2 mg/dL
Method: *NBD (p-nitrobenzene diazonium)*				
Bilirubin (Direct)	:	0.15	mg/dL	0 - 0.3 mg/dL
Method: *Diazotized Sulfanilic Acid*				
Bilirubin (Indirect)	:	0.45	mg/dL	0.1 - 1.0 mg/dL
Method: *Calculated*				
SGOT (AST)	:	14	IU/L	0 - 31 IU/L
Method: *UV Kinetic*				
SGPT (ALT)	:	20	U/L	0-34 U/L
Method: *UV Kinetic*				
Alkaline Phosphatase (ALP)	:	82	U/L	35 - 100 U/L
Method: *PNP AMP Kinetic*				
Total Proteins	:	7.30	gm/dL	6.4 - 8.3 gm/dL
Method: *Biuret*				
Albumin Fraction	:	3.88	g/dL	3.5 - 5.2 g/dL
Method : *Capillary electrophoresis*				
Globulin	:	3.42	gm/dL	2.3-3.5 gm/dL
Method: *Calculated*				
A/G Ratio	:	1.13		0.90-2.00
Method: *Calculated*				

GAMMA GT (GGT)

Test		Result	Unit	Biological Ref. Range
SERUM GAMMA GT	:	19.5	U/L	5 - 60 U/L
Method:- *IFCC*				

---------- End Of Report ----------