SPECTRA DIAGNOSTIC
LABORATORY SERVICE PROVIDER

Name:	**TANVI GANESHBHAI MORE**	Ward:	OPD
Lab ID	**00000256**	Registration on:	30/05/2023 10:27:00
Age & Sex:	**26 Year | Female**	Reported on:	12:32:01
Reference:	**VELOCITY HOSPITAL**	Sample Type:	BLOOD ~ URINE

CBC ESR

Test	Observed Value		Unit	Biological Reference Interval
Haemoglobin	12.8		g/dL	12.0 - 16.0
Total RBC	4.43		mill./cm	4.00 - 5.20
Total WBC	7000		/cmm	4000 - 11000
Platelet Count	285000		/cmm	150000 - 450000
HCT	38.3		%	36.0 - 48.0
MCV	86.5		fL	80.0 - 100.0
MCH	28.9		pg	27.0 - 32.0
MCHC	33.4		g/dL	31.5 - 36.0
DIFFERENTIAL COUNT				
Neutrophils	57		%	40-70
Lymphocytes	35		%	20 - 40
Eosinophils	03		%	02-05
Monocytes	05		%	01-07
Basophils	00		%	00 - 02
Band Cells	00		%	0.0 - 6.0
ABSOLUTE DIFFERNTIAL COUNT				
Neutrophils	3990		/cumm	2000 - 7000
Lymphocytes	2450		/cumm	1000 - 3000
Eosinophils	210		/cumm	20 - 500
Monocytes	350		/cumm	200 - 1000
Basophils	0		/cumm	0 - 100
GLR / NLR (Neutrophil/Lymphocyte Ratio)	1.6			
MENTZER INDEX	19.5			
RDW-CV	11.9		%	11.1 - 14.1
RDW-SD	41.2		fl	31.0-46.0
MPV	6.8	L	fl	7.0-11.0
PCT	0.19		%	

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PDW	17.7	%

PERIPHERAL SMEAR EXAMINATION

RBC Morphology	Normochromic and normocytic.
WBC Morphology	Appear normal,Immature cells are not seen .
Platelets in Smear	Adequate.
Malarial Parasites	Not Detected.

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BLOOD GROUP

Test	Observed Value	Unit	Biological Reference Interval
Blood Group	"A"		
Rh Factor	POSITIVE		

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BLOOD GLUCOSE TEST

Test	Observed Value	Unit	Biological Reference Interval
Sample	FLOURIDE PLASMA		
FASTING (FBS)			
Blood Sugar-F	71.0	mg/dL	70.00-110.00
Urine Sugar-R	Absent		

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HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
HbA1c	6.1	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	128.4	mg/dL	80.0 - 140.0

Importance of HbA1c - Glycated Hb. in Diabetes Mellitus

• HbA1c, also known as Glycated Hemoglobin is the most important test for the assessment of long term blood glucose control (also called glycemic control)
• HbA1c reflects mean blood glucose concentration over past 6-8 weeks and provides amuch better indication of long term glycemic control than blood glucose determination
• HbA1c is formed by non-enzymatic reaction between glucose and Hb. , this reaction is irreversible and therefore remains unaffected by short term fluctuations in blood glucose levels.
• Long term complications of diabetes such as retinopathy-eye complications, nephropathy-kidney complications and neuropathy-nerve complications, are potentially serious and can lead to blindness, kidney failure etc.
• Glycemic control monitored by HbA1c measurement using HPLC method-(Gold Standard) is considered most important. (Ref. National Glycohemoglobin Standardization Program -NGSP).

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LIPID PROFILE

Test	Observed Value		Unit	Biological Reference Interval
Sample	Fasting Blood Serum			
Cholesterol	222.9	H	mg/dL	<200 Desirable 200-29 Borderline >240 High
Triglyceride	98.1		mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	47.46		mg/dL	40-60
VLDL	19.62		mg/dL	0.00 - 30.00
LDL Cholesterol	155.82	H	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	3.28			1.0 - 3.4
Cholesterol / HDL Chol. Ratio	4.7	H		0 - 3.5
Total Lipid	666.4		mg/dl	400.0 - 1000.0

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RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.68	mg/dL	0.5-1.30
Bl. Urea	20.0	mg/dL	10.0 - 40.0
BUN	9.3	mg/dl	6.0 - 22.0
Uric Acid	5.64	mg/dL	2.6 - 6.0
PROTEINS			
Total Protein	7.1	g/dL	6.0 - 8.0
Albumin	4.05	g/dL	3.50 - 5.50
Globulin	3.1	g/dL	2.5 - 4.0
A/G Ratio	1.3		

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LIVER FUNCTION TEST

Test	Observed Value	Unit	Biological Reference Interval
BILIRUBIN			
Total Bilirubin	0.5	mg/dL	0.00 - 1.20
Direct Bilirubin	0.2	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.30	mg/dL	0.30 - 1.00
SGPT(ALT)	11.92	U/L	0.0 - 40.0
SGOT (AST)	12.29	U/L	0.00-46.00
Alkaline Phosphatase	158.0	U/L	64-306
PROTEINS			
Total Protein	7.1	g/dL	6.0 - 8.0
Albumin	4.05	g/dL	3.50 - 5.50
Globulin	3.1	g/dL	2.5 - 4.0
A/G Ratio	1.3		

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URINE ANALYSIS

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fresh Urine		
PHYSICAL EXAMINATION			
Quantity	10.0	mL	
Colour	Pale-Yellow		
Appearance	Sl.Turbid		Clear
pH	6.0		
Specific Gravity	1.020		
Sediments	Absent		Absent
CHEMICAL EXAMINATION			
Protein (Albumin)	Absent		Absent
Sugar	Absent		Absent
Bile Salts	Absent		Absent
Bile Pigment	Absent		Absent
Ketone	Absent		Absent
Occult Blood	Absent		Absent
Nitrite	Absent		Absent
Leukocyte Esterase	Absent		Absent
Urobilinogen	Normal		Normal
MICROSCOPIC EXAMINATION			
Pus Cells	2-3	/hpf	Absent
Red Blood Cells	1-2	/hpf	Absent
Epithelial Cells	6-7	/hpf	Absent
Crystals	Absent		Absent
Amorphous material	Absent		Absent
Casts	Absent		Absent
Yeast	Absent		Absent
Bacteria	Present (+)		Absent

--- End of Report ---

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