



Name: SHRENIK SUMANBHAI GAMIT	Ward: OPD
Lab ID: 00000109	Registration on: 13/04/2024 09:51:00
Age & Sex: 31 Year Male	Reported on: 11:44:08
Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE

CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	13.57	g/dL	13.5 - 17.5
Total RBC	6.21 H	mill./cm	4.50 - 5.90
Total WBC	6250	/cmm	4000 - 11000
Platelet Count	205300	/cmm	150000 - 450000
HCT	43.9	%	36.0 - 48.0
MCV	70.7 L	fL	80.0 - 100.0
MCH	21.9 L	pg	27.0 - 32.0
MCHC	30.9 L	g/dL	31.5 - 36.0
DIFFERENTIAL COUNT			
Neutrophils	70	%	40 - 70
Lymphocytes	26	%	20 - 40
Eosinophils	02	%	02-05
Monocytes	02	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0
ABSOLUTE DIFFERENTIAL COUNT			
Neutrophils	4375	/cumm	2000 - 7000
Lymphocytes	1625	/cumm	1000.0-3000.0
Eosinophils	125	/cumm	20 - 500
Monocytes	125 L	/cumm	200 - 1000
Basophils	0	/cumm	0 - 100
GLR / NLR (Neutrophil/Lymphocyte Ratio)	2.7		
MENTZER INDEX			
RDW-CV	14.7	%	11.1 - 14.1
RDW-SD	41.6	fl	
MPV	11.3	fl	
PCT	0.23	%	

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PDW 17.5 %

PERIPHERAL SMEAR EXAMINATION

RBC Morphology Hypochromia (+), Microcytosis (+), Anisocytosis (+), Target cell (+), Poikilocytosis (+)

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

Note Hb electrophoresis is advised to rule out thalassemia as Mentzer index is <13. (low HB, high RBC count and low MCV) .

ESR

AFTER 1 HOUR 19 H mm/hr 0.0 - 15.0

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BLOOD GROUP

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<u>Blood Group</u>	"A"		
<u>Rh Factor</u>	POSITIVE		

Bhatt

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BLOOD GLUCOSE TEST

Test	Observed Value	Unit	Biological Reference Interval
Sample <u>FASTING (FBS)</u> Blood Sugar-F	FLOURIDE PLASMA 78.6	mg/dL	70.00-110.00

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HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<u>HbA1c</u>	5.5	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	111.2	mg/dL	70.0 - 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 a much 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	177.0	mg/dL	<200 Desirable 200-29 Borderline >240 High
Triglyceride	69.0	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	42.5	mg/dL	40-60
VLDL	13.80	mg/dL	0.00 - 30.00
LDL Cholesterol	120.70	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	2.84		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	4.2	H	0 - 3.5
Total Lipid	533.1	mg/dl	400.0 - 1000.0

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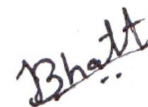
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RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.6	mg/dL	0.5-1.30
Bl. Urea	22.5	mg/dL	10.0 - 40.0
BUN	10.5	mg/dl	6.0 - 22.0
Uric Acid	5.34	mg/dL	3.5 - 7.2
PROTEINS			
Total Protein	7.2	g/dL	6.0 - 8.0
Albumin	4.77	g/dL	3.50 - 5.50
Globulin	2.4	g/dL	2.0 - 4.0
A/G Ratio	2.0		

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LIVER FUNCTION TEST

Test	Observed Value	Unit	Biological Reference Interval
<u>BILIRUBIN</u>			
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	0.10 - 1.00
SGPT(ALT)	24.6	U/L	0.0 - 40.0
SGOT (AST)	26.3	U/L	0.0 - 46.0
Alkaline Phosphatase	205.3	U/L	64-306.0
<u>PROTEINS</u>			
Total Protein	7.2	g/dL	6.0 - 8.0
Albumin	4.77	g/dL	3.50 - 5.50
Globulin	2.4	g/dL	2.0 - 4.0
A/G Ratio	2.0		

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URINE ANALYSIS

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fresh Urine		
<u>PHYSICAL EXAMINATION</u>			
Quantity	10.0	mL	
Colour	Pale-Yellow		
Appearance	Clear		Clear
pH	6.0		
Specific Gravity	1.015		
Sediments	Absent		Absent
<u>CHEMICAL EXAMINATION</u>			
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
<u>MICROSCOPIC EXAMINATION</u>			
Pus Cells	Occasional	/hpf	Absent
Red Blood Cells	Absent	/hpf	Absent
Epithelial Cells	Occasional	/hpf	Absent
Crystals	Absent		Absent
Amorphous material	Absent		Absent
Casts	Absent		Absent
Yeast	Absent		Absent
Bacteria	Absent		Absent

--- End of Report ---

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