



Name: MAHESHKUMAR CHHANABHAI PAVAGADHI	Ward: OPD
Lab ID: 00000238	Registration on: 28/01/2023 09:12:00
Age & Sex: 58 Year Male	Reported on: 12:25:06
Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE

CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	12.7 L	g/dL	13.5 - 17.5
Total RBC	5.64	mill./cm	4.50 - 5.90
Total WBC	6500	/cmm	4000 - 11000
Platelet Count	169000	/cmm	150000 - 450000
HCT	42.2	%	36.0 - 48.0
MCV	74.8 L	fL	80.0 - 100.0
MCH	22.5 L	pg	27.0 - 32.0
MCHC	30.1 L	g/dL	31.5 - 36.0

DIFFERENTIAL COUNT

Neutrophils	61	%	40 - 70
Lymphocytes	33	%	20 - 40
Eosinophils	04	%	02-05
Monocytes	02	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0

ABSOLUTE DIFFERENTIAL COUNT

Neutrophils	3965	/cumm	2000 - 7000
Lymphocytes	2145	/cumm	1000 - 3000
Eosinophils	260	/cumm	20 - 500
Monocytes	130 L	/cumm	200 - 1000
Basophils	0	/cumm	0 - 100

GLR / NLR

(Neutrophil/Lymphocyte Ratio)

1.8

MENTZER INDEX

13.3

RDW-CV	13.4	%	11.1 - 14.1
MPV	6.4	fL	
PCT	0.11	%	
PDW	16.2	%	

Bhatt

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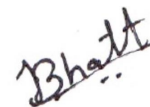




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PERIPHERAL SMEAR EXAMINATION

RBC Morphology	Hypochromia (+), Microcytosis (+), Anisocytosis (+), Poikilocytosis (+)
WBC Morphology Platelets in Smear	Appear normal, Immature cells are not seen. Adequate.
<u>Malarial Parasites</u>	Not Detected.



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BLOOD GROUP

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

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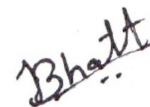




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BLOOD GLUCOSE TEST

Test	Observed Value	Unit	Biological Reference Interval
Sample	FLOURIDE PLASMA		
<u>FASTING (FBS)</u>			
Blood Sugar-F	109.6	mg/dL	70.00-110.00
Urine Sugar-F	Absent		



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HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<u>HbA1c</u>	7.6 H	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	171.4 H	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		0.0 - 0.0
Cholesterol	177.4	mg/dL	<200 Desirable 200-239 Borderline >240 Hig
Triglyceride	263.0 H	mg/dL	< 150 Normal 150 - 199 Borderline High 200 - 499 High >=500 Very High
HDL Cholesterol	45.0	mg/dL	40-60
VLDL	52.60 H	mg/dL	10-40
LDL Cholesterol	79.80	mg/dL	<100 Optimal 100-129 Near optimal/above optimal 130-159 Borderline High 160-189 High >190 Very high
Cholesterol / HDL Chol. Ratio	1.77		0 - 4.1
Total Lipid	3.9 L	mg/dl	400.0 - 1000.0
<u>NOTE</u>	728.0		

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RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	1.07	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
S.Calcium	9.5	mg/dL	8.8-10.3
Uric Acid	4.7	mg/dL	3.5 - 7.2

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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	0.20 - 1.00
SGPT(ALT)	34.0	U/L	0.0 - 40.0
SGOT (AST)	30.0	U/L	0.0 - 46.0
Alkaline Phosphatase	84.0	U/L	40-129
PROTEINS			
Total Protein	7.6	g/dL	6.0 - 8.0
Albumin	4.5	g/dL	3.50 - 5.50
Globulin	3.1	g/dL	2.0 - 4.0
A/G Ratio	1.5		

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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	Sl.Turbid		Clear
pH	7.0		
Specific Gravity	1.020		
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	3-4	/hpf	Absent
Red Blood Cells	3-4	/hpf	Absent
Epithelial Cells	8-10	/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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