



Name: <b>SAURABH DUTTA</b>	Ward: OPD
Lab ID: <b>0000088</b>	Registration on: 11/03/2023 08:39:00
Age & Sex: <b>42 Year   Male</b>	Reported on: 15:37:04
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

### CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	14.3	g/dL	13.0 - 18.0
Total RBC	5.39	mill./cm	4.50 - 6.00
Total WBC	6900	/cmm	4000 - 10000
Platelet Count	335000	/cmm	150000 - 450000
HCT	45.0	%	40.0 - 50.0
MCV	83.5	fL	80.0 - 100.0
MCH	26.5 L	pg	27.0 - 32.0
MCHC	31.8	g/dL	31.5 - 36.0

### DIFFERENTIAL COUNT

Neutrophils	76 H	%	40 - 70
Lymphocytes	19 L	%	20 - 40
Eosinophils	02	%	02 - 05
Monocytes	03	%	01 - 07

### ABSOLUTE DIFFERENTIAL COUNT

Neutrophils	5244	/cumm	2000 - 7000
Lymphocytes	1311	/cumm	1000 - 3000
Eosinophils	138	/cumm	20 - 500
Monocytes	207	/cumm	200 - 1000

### GLR / NLR

(Neutrophil/Lymphocyte Ratio)

4.0

RDW-CV	12.6	%	11.5 - 14.5
MPV	5.9 L	fl	7.00 - 11.00
PCT	0.20	%	0.10 - 0.30
PDW	16.9	%	10.0-18.00

### PERIPHERAL SMEAR EXAMINATION

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

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Malarial Parasites

NOT DETECTED.

ESR

AFTER 1 HOUR

14

mm/hr

0.0 - 15.0

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## BLOOD GLUCOSE TEST

Test	Observed Value	Unit	Biological Reference Interval
Sample FASTING (FBS) Blood Sugar-F	FLOURIDE PLASMA 83.8	mg/dL	70.00-110.00

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## BLOOD GROUP

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

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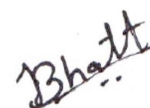
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

## HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<u>HbA1c</u>	5.8	%	> 8 : Action Suggested 7-8 : Good Control < 7 : Goal 6-7 : Near Normal Glycemia < 6 : Non-diabetic Level
Mean Blood Glucose	119.8	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 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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## LIVER FUNCTION TEST

Test	Observed Value	Unit	Biological Reference Interval
<b><u>BILIRUBIN</u></b>			
Total Bilirubin	0.5	mg/dL	0.0-1.20
Direct Bilirubin	0.2	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.30	mg/dL	
SGPT(ALT)	29.8	U/L	UP TO 45.00
SGOT (AST)	30.5	U/L	0.0 - 40.0
GAMMA GT	20	IU/L	7 TO 50 IU/L
<b><u>PROTEINS</u></b>			
Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	3.6	g/dL	3.50 - 5.50
Globulin	2.9	g/dL	2.5 - 4.0
A/G Ratio	1.2		

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## RENAL FUNCTION TEST

Test	Observed Value	Unit	Biological Reference Interval
S. Creatinine	0.73	mg/dL	0.30 - 1.30
Bl. Urea	20.5	mg/dL	10.0 - 40.0
BUN	9.6	mg/dl	6.0 - 22.0
<b>PROTEINS</b>			
Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	3.6	g/dL	3.50 - 5.50
Globulin	2.9	g/dL	2.5 - 4.0
A/G Ratio	1.2		

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## LIPID PROFILE

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Serum		
Cholesterol	167.7	mg/dL	100 - 199 mg/dl
Triglyceride	106.6	mg/dL	0 - 150 : Normal 150 - 199 : Borderline High 200 - 499 : High >= 500 : Very High
HDL Cholesterol	45.3	mg/dL	< 35 : Low (High Risk) >= 60 : High (Low Risk)
VLDL	21.32	mg/dL	0.00 - 30.00
LDL Cholesterol	101.08 H	mg/dL	< 100 : Optimal 100 - 129 : Near/Above Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	2.23		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	3.70 H		0 - 3.5
Total Lipid	549.6	mg/dl	400.0 - 1000.0

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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		
pH	6.0		
Specific Gravity	1.030		
Sediments	Absent		Absent
<u>CHEMICAL EXAMINATION</u>			
Protein (Albumin)	Present (+) 30mg/dl		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	Absent	/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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