



Name: <b>GUDIYA JHA</b>	Ward: OPD
Lab ID: <b>00000089</b>	Registration on: 11/02/2023 10:05:00
Age & Sex: <b>33 Year   Female</b>	Reported on: 13:02:20
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	14.0	g/dL	12.0 - 16.0
Total RBC	5.08	mill./cm	4.00 - 5.20
Total WBC	8200	/cmm	4000 - 11000
Platelet Count	240000	/cmm	150000 - 450000
HCT	42.0	%	36.0 - 48.0
MCV	82.7	fL	80.0 - 100.0
MCH	27.6	pg	27.0 - 32.0
MCHC	33.3	g/dL	31.5 - 36.0
<b>DIFFERENTIAL COUNT</b>			
Neutrophils	61	%	40 - 70
Lymphocytes	32	%	20 - 40
Eosinophils	04	%	02-05
Monocytes	03	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0
<b>ABSOLUTE DIFFERENTIAL COUNT</b>			
Neutrophils	5002	/cumm	2000 - 7000
Lymphocytes	2624	/cumm	1000 - 3000
Eosinophils	328	/cumm	20 - 500
Monocytes	246	/cumm	200 - 1000
Basophils	0	/cumm	0 - 100
<b>GLR / NLR</b> (Neutrophil/Lymphocyte Ratio)	<b>1.9</b>		
<b>M ENTZER INDEX</b>			
<b>RDW-CV</b>	<b>11.8</b>	<b>%</b>	<b>11.1 - 14.1</b>
<b>RDW-SD</b>	<b>39.0</b>	<b>fL</b>	<b>31.0-46.0</b>
<b>MPV</b>	<b>9.1</b>	<b>fL</b>	<b>7.00 - 11.00</b>
<b>PCT</b>	<b>0.22</b>	<b>%</b>	<b>0.10-0.30</b>

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PDW 17.7 % 10.0-18.00

**PERIPHERAL SM EAR EXAMINATION**

RBC Morphology  
WBC Morphology  
Platelets in Smear

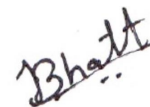
**Normochromic and normocytic.**  
**Appear normal, Immature cells are not seen .**  
Adequate.

**Malarial Parasites**

Not Detected.

**ESR**

AFTER 1 HOUR 20 mm/hr 0.0 - 20.0



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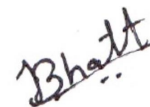




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## BLOOD GROUP

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



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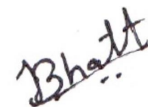




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## BLOOD GLUCOSE TEST

Test	Unit
Sample	FLOURIDE PLASMA
<b>FASTING (FBS)</b>	
Blood Sugar-F	83.3 mg/dL 70.00-110.00



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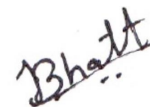
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

## HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<b>HbA1c</b>	5.2	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	102.5	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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## LIPID PROFILE

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Serum		0.0 - 0.0
Cholesterol	189.3	mg/dL	<200 Desirable 200-239 Borderline >240 Hig
Triglyceride	92.2	mg/dL	< 150 Normal 150 - 199 Borderline High 200 - 499 High >=500 Very High
HDL Cholesterol	50.1	mg/dL	40-60
VLDL	18.44	mg/dL	10-40
LDL Cholesterol	120.76	mg/dL	<100 Optimal 100-129 Near optimal/above optimal 130-159 Borderline High 160-189 High >190 Very high
Cholesterol / HDL Chol. Ratio	2.41		0 - 4.1
Total Lipid	<b>3.8 L</b>	mg/dl	400.0 - 1000.0

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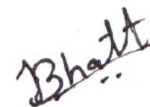
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Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

## RENAL FUNCTION TEST

<u>Test</u>		<u>Unit</u>	
S. Creatinine	0.61	mg/dL	0.5-1.30
Bl. Urea	22.3	mg/dL	10.0 - 50.0
BUN	10.4	mg/dl	6.0 - 22.0
Uric Acid	4.5	mg/dL	2.6 - 6.0
<b>PROTEINS</b>			
Total Protein	7.5	g/dL	6.0 - 8.0
Albumin	4.0	g/dL	3.50 - 5.50
Globulin	3.5	g/dL	2.5 - 4.0
A/G Ratio	1.1		



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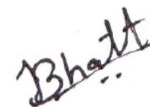
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## LIVER FUNCTION TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<b><u>BILIRUBIN</u></b>			
Total Bilirubin	0.6	mg/dL	0.00 - 1.20
Direct Bilirubin	0.3	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.30	mg/dL	0.20 - 1.00
SGPT(ALT)	19.3	U/L	0.0 - 40.0
SGOT (AST)	20.5	U/L	0.0 - 46.0
Alkaline Phosphatase	95.8	U/L	80-306



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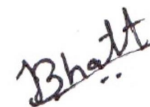


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## URINE ANALYSIS

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fresh Urine		
<b><u>PHYSICAL EXAMINATION</u></b>			
Quantity	10.0	mL	
Colour	Pale-Yellow		
Appearance	Sl.Turbid		
pH	6.0		
Specific Gravity	1.030		
Sediments	Absent		Absent
<b><u>CHEMICAL EXAMINATION</u></b>			
Protein (Albumin)	Absent		Absent
Sugar	Absent		Absent
Bile Salts	Absent		Absent
Bile Pigment	Absent		Absent
Ketone	Absent		Absent
Occult Blood	<b>Trace</b>		Absent
Nitrite	Absent		Absent
Leukocyte Esterase	Absent		Absent
Urobilinogen	Normal		Normal
<b><u>MICROSCOPIC EXAMINATION</u></b>			
Pus Cells	<b>6-7</b>	/hpf	Absent
Red Blood Cells	<b>3-5</b>	/hpf	Absent
Epithelial Cells	<b>8-10</b>		Absent
Crystals	Ca. oxalates (++)		Absent
Amorphous material	Absent		Absent
Casts	Absent		Absent
Yeast	Absent		Absent
Bacteria	Present (+)		Absent

--- End of Report ---



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## LABORATORY TEST REPORT



Patient Information	Sample Information	Client/Location Information
Name : <b>Ms Gudiya Jha</b>	Lab Id : <b>022315301130</b>	Client Name : Spectra Diagnostics Lab@Adajan
Sex/Age : <b>Female / 33 Y</b>	Registration on : 11-Feb-2023 10:40	Location :
Ref. Id :	Collected at : non SAWPL	Approved on : 11-Feb-2023 12:03 Status : Final
Ref. By :	Collected on : 11-Feb-2023 10:40	Printed On : 11-Feb-2023 12:14
	Sample Type : Serum	Process At : 153. Lab SAWPL Gujarat Surat Adajan

### Thyroid Function Test

Test	Result	Unit	Biological Ref. Interval
T3 - Triiodothyronine <i>Chemiluminescence</i>	1.06	ng/mL	0.58 - 1.59
T4 - Thyroxine <i>Chemiluminescence</i>	9.12	micro g/dL	4.87 - 11.72
TSH - Thyroid Stimulating Hormone <i>Chemiluminescence</i>	2.6197	microIU/mL	0.35 - 4.94

TSH	T3/FT3	T4/FT4	Suggested Interpretation for the Thyroid Function Tests Pattern
Within Range	Decreased	Within Range	- Isolated Low T3-often seen in elderly & associated Non-Thyroidal illness. In elderly the drop in T3 level can be upto 25%.
Raised	Within Range	Within Range	- Isolated High TSH especially in the range of 4.7 to 15 mIU/ml is commonly associated with physiological & Biological TSH Variability. - Subclinical Autoimmune Hypothyroidism - Intermittent T4 therapy for hypothyroidism - Recovery phase after Non-Thyroidal illness
Raised	Decreased	Decreased	- Chronic autoimmune Thyroiditis - Post thyroidectomy, Post radiiodine - Hypothyroid phase of transient thyroiditis
Raised or Within Range	Raised	Raised or Within range	- Interfering antibodies to thyroid hormones (anti-TPO antibodies) - intermittent T4 therapy or T4 overdose - Drug interference-Amiodarone, Heparin, Beta blockers, steroids, anti-epileptics
Decreased	Raised or within Range	Raised or within Range	- Isolated Low TSH - especially in the range of 0.1 to 0.4 often seen in elderly & associated with Non-Thyroidal illness - Subclinical Hyperthyroidism - Thyroxine ingestion
Decreased	Decreased	Decreased	- Central Hypothyroidism - Non-Thyroidal illness - Recent treatment for Hyperthyroidism (TSH remains suppressed)
Decreased	Raised	Raised	- Primary Hyperthyroidism (Graves disease), Multinodular goitre Toxic nodule - Transient thyroiditis: Postpartum, Silent (lymphocytic), Postviral (granulomatous, subacute, DeQuervain'a) Gestational thyrotoxicosis with hyperemesis gravidarum
Decreased or within range	Raised	Within Range	- T3 toxicosis - Non-Thyroidal illness

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

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**Dr. Bharat D. Tandel**

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