SPECTRA DIAGNOSTIC
LABORATORY SERVICE PROVIDER

Name:	**MUKESHBHAI PARSHUBHAI SURYAVANSHI**	Ward:	OPD
Lab ID	**00000168**	Registration on:	19/12/2022 13:17:00
Age & Sex:	**32 Year | Male**	Reported on:	13:54:30
Reference:	**VELOCITY HOSPITAL**	Sample Type:	BLOOD & URINE

CBC ESR

Test	Observed Value		Unit	Biological Reference Interval
Haemoglobin	**12.7**	**L**	g/dL	13.4 - 16.4
Total RBC	5.69		mill./cm	4.50 - 6.00
Total WBC	6700		/cmm	4000 - 10000
Platelet Count	372000		/cmm	150000 - 450000
HCT	41.7		%	
MCV	**73.3**	**L**	fL	80.0 - 100.0
MCH	**22.3**	**L**	pg	27.0 - 32.0
MCHC	**30.5**	**L**	g/dL	31.5 - 36.0
DIFFERENTIAL COUNT				
Neutrophils	61		%	40 - 70
Lymphocytes	33		%	20 - 40
Eosinophils	03		%	02-05
Monocytes	03		%	01-07
Basophils	00		%	00 - 02
Band Cells	00		%	0.0 - 6.0
ABSOLUTE DIFFERNTIAL COUNT				
Neutrophils	4087		/cumm	2000.0-7000.0
Lymphocytes	2211		/cumm	1000.0-3000.0
Eosinophils	201		/cumm	20 - 500
Monocytes	201		/cumm	200 - 1000
Basophils	0		/cumm	0 - 100
GLR / NLR (Neutrophil/Lymphocyte Ratio)	**1.8**			
M ENTZER INDEX	**12.9**			
RDW-CV	13.0		%	11.1 - 14.1
RDW-SD	38.1		fl	31.0-46.0
MPV	7.5		fl	7.00 - 11.00
PCT	0.28		%	0.10-0.30

Bhatt

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PDW	**18.9**	**H**	%	10.0-18.00

PERIPHERAL SMEAR EXAMINATION

RBC Morphology	**Hypochromia (+), Microcytosis (+), Anisocytosis (+),**
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	**18**	**H**	mm/hr	0.0 - 15.0

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BLOOD GROUP

Test	Observed Value	Unit	Biological Reference Interval
Blood Group	"B"		
Rh Factor	NEGATIVE		
NOTE	Rh negative test confirmed by DU test .		

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BLOOD GLUCOSE TEST

Test	Observed Value	Unit	Biological Reference Interval
Sample	FLOURIDE PLASMA		
FASTING (FBS)			
Blood Sugar-F	86.6	mg/dL	70.00-110.00

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HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
HbA1c	5.09	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	99.4	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 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	191.2	mg/dL	UP TO 220
Triglyceride	94.2	mg/dL	60.0 - 165.0
HDL Cholesterol	49.3	mg/dL	35.0 - 80.0
VLDL	18.84	mg/dL	0.00 - 30.00
LDL Cholesterol	123.06	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
Cholesterol / HDL Chol. Ratio	2.50		0 - 3.5
Total Lipid	**3.9 L**	mg/dl	400.0 - 1000.0

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RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.97	mg/dL	0.5-1.30
Bl. Urea	25.0	mg/dL	10.0 - 40.0
BUN	11.7	mg/dl	6.0 - 22.0
S.Calcium	10.0	mg/dL	8.8-10.3
Uric Acid	4.0	mg/dL	3.5 - 7.2
ELECTROLYTES			
Sodium (Na+)	140.5	mmol/L	135.0 - 150.0
Potassium (K+)	4.40	mmol/L	3.60 - 5.40
Chloride (Cl-)	105.1	mmol/L	98.0 - 110.0

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

LIVER FUNCTION TEST

Test	Observed Value	Unit	Biological Reference Interval
BILIRUBIN			
Total Bilirubin	0.7	mg/dL	0.10 - 1.20
Direct Bilirubin	0.2	mg/dL	0.0-0.4
Indirect Bilirubin	0.50	mg/dL	0.10-0.70
SGPT(ALT)	29.08	U/L	0.0 - 40.0
SGOT (AST)	39.00	U/L	0.0 - 46.0
Alkaline Phosphatase	84.00	U/L	40-129
PROTEINS			
Total Protein	6.9	g/dL	6.0 - 8.0
Albumin	3.60	g/dL	3.50 - 5.50
Globulin	3.3	g/dL	2.5 - 4.0
A/G Ratio	1.1		

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

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	1.030		
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	**Trace**		Absent
Nitrite	Absent		Absent
Leukocyte Esterase	Absent		Absent
Urobilinogen	Normal		Normal
MICROSCOPIC EXAMINATION			
Pus Cells	**4-5**	/hpf	Absent
Red Blood Cells	**2-3**	/hpf	Absent
Epithelial Cells	**5-7**	/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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LABORATORY TEST REPORT

Patient Information		Sample Information		Client/Location Information	
Name :	**Mr. Mukesh Parshubhai Suryavanshi**	**Lab Id** :	**122215301802**	Client Name :	Spectra Diagnostics Lab@Adajan
Sex/Age :	**Male / 32 Y**	Registration on :	19-Dec-2022 13:12	Location :	
Ref. Id :		Collected at :	non SAWPL	Approved on :	19-Dec-2022 14:39 Status : Final
Ref. By :		Collected on :	19-Dec-2022 13:12	Printed On :	19-Dec-2022 14:48
		Sample Type :	Serum	Process At :	153. Lab SAWPL Gujarat Surat Adajan

Thyroid Function Test

Test	Result	Unit	Biological Ref. Interval
T3 - Triiodothyronine *Chemiluminescence*	1.39	ng/mL	0.58 - 1.59
T4 - Thyroxine *Chemiluminescence*	9.42	micro g/dL	4.87 - 11.72
TSH - Thyroid Stimulating Hormone *Chemiluminescence*	2.1315	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 - Intermitted T4 therapy for hypothyroidism - Recovery phase after Non-Thyroidal illness
Raised	Decreased	Decreased	- Chronic autoimmune Thyroiditis - Post thyroidectomy, Post radioiodine - 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's) Gestational thyrotoxicosis with hyperemesis gravidarum
Decreased or within range	Raised	Within Range	- T3 toxicosis - Non-Thyroidal illness

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

This is an Electronically Authenticated Report.

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