



Name: **SUJIT R BHALERAO**
 Lab ID: **00000208**
 Age & Sex: **53 Year | Male**
 Reference: **VELOCITY HOSPITAL**

Ward: **OPD**
 Registration on: **27/07/2024 09:56:00**
 Reported on: **13:04:09**
 Sample Type: **BLOOD & URINE**

CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	13.6	g/dL	13.5 - 17.5
Total RBC	5.44	mill./cm	4.50 - 5.90
Total WBC	7370	/cmm	4000 - 11000
Platelet Count	276600	/cmm	150000 - 450000
HCT	43.1	%	36.0 - 48.0
MCV	79.2 L	fL	80.0 - 100.0
MCH	25.0 L	pg	27.0 - 32.0
MCHC	31.6	g/dL	31.5 - 36.0

DIFFERENTIAL COUNT

Neutrophils	56	%	35 - 80
Lymphocytes	34	%	20 - 40
Eosinophils	07 H	%	02-05
Monocytes	03	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0

ABSOLUTE DIFFERENTIAL COUNT

Neutrophils	4127	/cumm	1800 - 7700
Lymphocytes	2506	/cumm	800 - 4800
Eosinophils	516 H	/cumm	0 - 500
Monocytes	221	/cumm	20 - 800
Basophils	0	/cumm	0 - 100

GLR / NLR

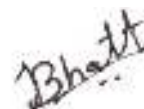
(Neutrophil/Lymphocyte Ratio)

1.6

MENTZER INDEX

14.6

RDW-CV	12.8	%	11.1 - 14.1
RDW-SD	40.6	fl	
MPV	7.6	fl	
PCT	0.21	%	



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PDW 16.2 %

PERIPHERAL SM EAR EXAMINATION

RBC Morphology
WBC Morphology
Platelets in Smear

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

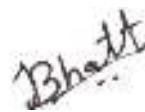
Malarial Parasites

Not Detected.

ESR

AFTER 1 HOUR

13 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>
Blood Group	"O"		
Rh Factor	POSITIVE		



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Reference: **VELOCITY HOSPITAL**

Sample Type: **BLOOD & URINE**

BLOOD GLUCOSE TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Sample	FLOURIDE PLASMA		
<u>FASTING (FBS)</u>			
Blood Sugar-F	75.1	mg/dL	70.00-110.00

Bhatt

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Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE

HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
HbA1c	5.59	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.0-7 : Near Normal Glycemia < 6.0 : Non-diabetic Level
Mean Blood Glucose	113.7	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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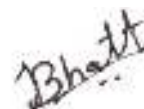
Reported on: **13:04:10**

Reference: **VELOCITY HOSPITAL**

Sample Type: **BLOOD & URINE**

LIPID PROFILE

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Serum		
Cholesterol	162.3	mg/dL	<200 Desirable 200-29 Borderline >240 High
Triglyceride	64.4	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	42.9	mg/dL	40-60
VLDL	12.88	mg/dL	0.00 - 30.00
LDL Cholesterol	106.52	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	2.48		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	3.8 H		0 - 3.5
Total Lipid	495.1	mg/dl	400.0 - 1000.0



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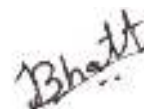
Sample Type: **BLOOD & URINE**

RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.9	mg/dL	0.5-1.30
Bl. Urea	22.6	mg/dL	10.0 - 40.0
BUN	10.6	mg/dl	6.0 - 22.0
Uric Acid	4.86	mg/dL	3.5 - 7.2

PROTEINS

Total Protein	7.2	g/dL	6.0 - 8.0
Albumin	3.64	g/dL	3.50 - 5.50
Globulin	3.6	g/dL	2.0 - 4.0
A/G Ratio	1.0		



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Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE

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	0.3	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.20	mg/dL	0.10 - 1.00
SGPT(ALT)	76.1 H	U/L	0.0 - 40.0
SGOT (AST)	39.9	U/L	0.0 - 46.0
Alkaline Phosphatase	249.9	U/L	64-306.0
<u>PROTEINS</u>			
Total Protein	7.2	g/dL	6.0 - 8.0
Albumin	3.64	g/dL	3.50 - 5.50
Globulin	3.6	g/dL	2.0 - 4.0
A/G Ratio	1.0		

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Reported on: 13:04:11

Reference: **VELOCITY HOSPITAL**

Sample Type: **BLOOD & URINE**

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	5.5		
Specific Gravity	1.025		
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	1-2	/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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TEST REPORT

Reg. No. : 40700731465 **Reg. Date** : 27-Jul-2024 13:41 **Ref.No** : **Approved On** : 27-Jul-2024 15:01
Name : SUJIT R. BHALERAO SUJIT **Collected On** : 27-Jul-2024 13:41
Age : 35 Years **Gender**: Male **Pass. No.** : **Dispatch At** :
Ref. By : **Tele No.** :
Location : SPECTRA DIAGNOSTIC @ LP SAVANI ROAD

Test Name	Results	Units	Bio. Ref. Interval
THYROID FUNCTION TEST			
T3 (triiodothyronine), Total <i>Method:CLIA</i>	1.37	ng/mL	0.6 - 1.81
T4 (Thyroxine), Total <i>Method:CLIA</i>	10.7	µg/dL	4.5 - 12.6
TSH (Ultra Sensitive) <i>By CLIA Method</i>	1.134	µIU/mL	0.55 - 4.78
Sample Type: Serum			

Comments:

Thyroid stimulating hormone (TSH) is synthesized and secreted by the anterior pituitary in response to a negative feedback mechanism involving concentrations of FT3 (free T3) and FT4 (free T4). Additionally, the hypothalamic tripeptide, thyrotropin-releasing hormone (TRH), directly stimulates TSH production. TSH stimulates thyroid cell production and hypertrophy, also stimulate the thyroid gland to synthesize and secrete T3 and T4. Quantification of TSH is significant to differentiate primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.

TSH levels During Pregnancy :

- First Trimester : 0.1 to 2.5 µIU/mL
- Second Trimester : 0.2 to 3.0 µIU/mL
- Third trimester : 0.3 to 3.0 µIU/mL

Reference : Carl A.Burtis,Edward R.Ashwood,David E.Bruns. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. 5th Edition. Philadelphia: WB Saunders,2012:2170

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Test done from collected sample.

Brijesha

Dr. Brijesha Patel
M.D. Pathology
Reg. No.: G-32437

Generated On : 27-Jul-2024 15:27

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TEST REPORT

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Age : 35 Years **Gender:** Male **Pass. No. :** **Dispatch At** :
Ref. By : **Tele No.** :
Location : SPECTRA DIAGNOSTIC @ LP SAVANI ROAD

Test Name	Results	Units	Bio. Ref. Interval
Prostate Specific Antigen (PSA),Total	0.93	ng/mL	0 - 4

Method:CLIA

Sample Type:Serum

Useful For

1. Evaluating patients with documented prostate problems in whom multiple prostate-specific antigen tests may be necessary per year
2. Monitoring patients with a history of prostate cancer as an early indicator of recurrence and response to treatment.
- 3.Prostate cancer screening.

Comments

-Prostate-specific antigen (PSA) is a glycoprotein that is produced by the prostate gland, the lining of the urethra, and the bulbourethral gland. Normally, very little PSA is secreted in the blood. Increases in glandular size and tissue damage caused by benign prostatic hypertrophy, prostatitis, or prostate cancer may increase circulating PSA levels.

-Digital rectal examination generally does not increase normal prostate-specific antigen (PSA) values. However, cystoscopy, urethral instrumentation, and prostate biopsy may increase PSA levels.

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