



Name: <b>KULDEEPSINH RAMANLAL VAGHELA</b>	Ward: OPD
Lab ID: <b>00000336</b>	Registration on: 30/03/2024 09:21:23
Age & Sex: <b>42 Year   Male</b>	Reported on: 11:10:42
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	14.20	g/dL	13.5 - 17.5
Total RBC	4.83	mill./cm	4.50 - 5.90
Total WBC	7100	/cmm	4000 - 11000
Platelet Count	270300	/cmm	150000 - 450000
HCT	43.8	%	39.0 - 49.0
MCV	90.7	fL	80.0 - 99.0
MCH	29.4	pg	27.0 - 34.0
MCHC	32.4	g/dL	32.0 - 37.0
<b>DIFFERENTIAL COUNT</b>			
Neutrophils	64	%	40 - 70
Lymphocytes	33	%	20 - 40
Eosinophils	02	%	02-05
Monocytes	01	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0
<b>ABSOLUTE DIFFERENTIAL COUNT</b>			
Neutrophils	4544	/cumm	1800 - 7700
Lymphocytes	2343	/cumm	800 - 4800
Eosinophils	142	/cumm	
Monocytes	71	/cumm	
Basophils	0	/cumm	0 - 100
<b>GLR / NLR</b> (Neutrophil/Lymphocyte Ratio)	<b>1.9</b>		
<b>MENTZER INDEX</b>			
<b>RDW-CV</b>	<b>13.3</b>	%	11.1 - 14.1
<b>RDW-SD</b>	<b>48.3</b>	fl	
<b>MPV</b>	<b>7.2</b>	fl	
<b>PCT</b>	<b>0.19</b>	%	

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Age & Sex: <b>42 Year   Male</b>	Reported on: 11:10:42
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

PDW 16.0 %

**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 H** mm/hr

0.0 - 15.0

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Age & Sex: <b>42 Year   Male</b>	Reported on: <b>11:10:42</b>
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## BLOOD GROUP

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

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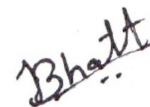




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Age & Sex: <b>42 Year   Male</b>	Reported on: <b>11:10:42</b>
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## BLOOD GLUCOSE TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Sample	FLOURIDE PLASMA		
<b><u>FASTING (FBS)</u></b>			
Blood Sugar-F	100.47	mg/dL	70.00-110.00



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Ward: OPD

Lab ID: **00000336**

Registration on: 30/03/2024 09:21:23

Age & Sex: **42 Year | Male**

Reported on: 11:10:42

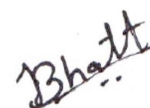
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

## HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<b>HbA1c</b>	5.9	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	122.6	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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Age & Sex: <b>42 Year   Male</b>	Reported on: 11:10:42
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## LIPID PROFILE

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Serum		
Cholesterol	163.3	mg/dL	<200 Desirable 200-229 Borderline >240 High
Triglyceride	<b>233.7 H</b>	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	45.0	mg/dL	40-60
VLDL	<b>46.74 H</b>	mg/dL	0.00 - 30.00
LDL Cholesterol	71.56	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	1.59		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	<b>3.6 H</b>		0 - 3.5
Total Lipid	666.7	mg/dl	400.0 - 1000.0

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Ward: OPD

Lab ID: **00000336**

Registration on: 30/03/2024 09:21:23

Age & Sex: **42 Year | Male**

Reported on: 11:10:43

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

## RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.9	mg/dL	0.5-1.30
Bl. Urea	24.0	mg/dL	10.0 - 40.0
BUN	11.2	mg/dl	6.0 - 22.0
Uric Acid	4.42	mg/dL	3.5 - 7.2

### PROTEINS

Total Protein	6.8	g/dL	6.0 - 8.0
Albumin	4.23	g/dL	3.50 - 5.50
Globulin	2.6	g/dL	2.0 - 4.0
A/G Ratio	1.6		

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Lab ID <b>00000336</b>	Registration on: 30/03/2024 09:21:23
Age & Sex: <b>42 Year   Male</b>	Reported on: 11:10:43
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## 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	0.5	mg/dL	0.00 - 1.20
Direct Bilirubin	0.2	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.30	mg/dL	0.00 - 1.00
SGPT(ALT)	25.6	U/L	0.0 - 40.0
SGOT (AST)	30.0	U/L	0.0 - 46.0
Alkaline Phosphatase	189.0	U/L	64.0 - 306.0
<b><u>PROTEINS</u></b>			
Total Protein	6.8	g/dL	6.0 - 8.0
Albumin	4.23	g/dL	3.50 - 5.50
Globulin	2.6	g/dL	2.0 - 4.0
A/G Ratio	1.6		

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Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## 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	<b>Clear</b>		Clear
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	Absent		Absent
Nitrite	Absent		Absent
Leukocyte Esterase	Absent		Absent
Urobilinogen	Normal		Normal
<b><u>MICROSCOPIC EXAMINATION</u></b>			
Pus Cells	<b>Occasional</b>	/hpf	Absent
Red Blood Cells	Absent	/hpf	Absent
Epithelial Cells	<b>Occasional</b>	/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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Name: <b>NIMISHA KULDEEPSINH VAGHELA</b>	Ward: OPD
Lab ID: <b>00000337</b>	Registration on: 30/03/2024 09:22:00
Age & Sex: <b>42 Year   Female</b>	Reported on: 11:57:35
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	12.46	g/dL	12.0 - 16.0
Total RBC	4.54	mill./cm	4.00 - 5.20
Total WBC	10370	/cmm	4000 - 11000
Platelet Count	302000	/cmm	150000 - 450000
HCT	39.0	%	35.0 - 45.0
MCV	85.9	fL	80.0 - 99.0
MCH	27.4	pg	27.0 - 34.0
MCHC	<b>31.9 L</b>	g/dL	32.0 - 37.0

### DIFFERENTIAL COUNT

Neutrophils	<b>71 H</b>	%	40 - 70
Lymphocytes	25	%	20 - 40
Eosinophils	02	%	02-05
Monocytes	02	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0

### ABSOLUTE DIFFERENTIAL COUNT

Neutrophils	7363	/cumm	1800 - 7700
Lymphocytes	2593	/cumm	800 - 4800
Eosinophils	207	/cumm	
Monocytes	207	/cumm	
Basophils	0	/cumm	0 - 100

### GLR / NLR

(Neutrophil/Lymphocyte Ratio) **2.9**

### MENTZER INDEX

RDW-CV	13.4	%	11.1 - 14.1
RDW-SD	46.0	fl	
MPV	7.9	fl	
PCT	<b>0.24</b>	%	

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Age & Sex: <b>42 Year   Female</b>	Reported on: 11:57:35
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

PDW 16.8 %

**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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Lab ID: <b>00000337</b>	Registration on: <b>30/03/2024 09:22:00</b>
Age & Sex: <b>42 Year   Female</b>	Reported on: <b>11:57:36</b>
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## 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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Age & Sex: <b>42 Year   Female</b>	Reported on: <b>11:57:36</b>
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## BLOOD GLUCOSE TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Sample	FLOURIDE PLASMA		
<b><u>FASTING (FBS)</u></b>			
Blood Sugar-F	90.40	mg/dL	70.00-110.00

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Name: **NIMISHA KULDEEPSINH VAGHELA**  
Lab ID: **00000337**  
Age & Sex: **42 Year | Female**  
Reference: **VELOCITY HOSPITAL**

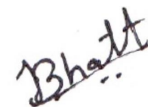
Ward: **OPD**  
Registration on: **30/03/2024 09:22:00**  
Reported on: **11:57:36**  
Sample Type: **BLOOD & URINE**

## HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<b>HbA1c</b>	6.1	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	128.4	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		
Cholesterol	200.0	mg/dL	<200 Desirable 200-229 Borderline >240 High
Triglyceride	60.0	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	42.0	mg/dL	40-60
VLDL	12.00	mg/dL	0.00 - 30.00
LDL Cholesterol	<b>146.00</b> H	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	<b>3.48</b> H		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	<b>4.8</b> H		0 - 3.5
Total Lipid	576.3	mg/dl	400.0 - 1000.0

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Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.81	mg/dL	0.5-1.30
Bl. Urea	24.0	mg/dL	10.0 - 40.0
BUN	11.2	mg/dl	6.0 - 22.0
Uric Acid	3.27	mg/dL	2.6 - 6.0

### PROTEINS

Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	3.89	g/dL	3.50 - 5.50
Globulin	2.6	g/dL	2.5 - 4.0
A/G Ratio	1.5		

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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	0.00 - 1.20
Direct Bilirubin	0.2	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.30	mg/dL	0.00 - 1.00
SGPT(ALT)	14.7	U/L	0.0 - 40.0
SGOT (AST)	15.0	U/L	0.0 - 46.0
Alkaline Phosphatase	190.0	U/L	64.0 - 306.0
<b><u>PROTEINS</u></b>			
Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	3.89	g/dL	3.50 - 5.50
Globulin	2.6	g/dL	2.5 - 4.0
A/G Ratio	1.5		

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Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

## 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	<b>Clear</b>		Clear
pH	6.0		
Specific Gravity	1.025		
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	Absent		Absent
Nitrite	Absent		Absent
Leukocyte Esterase	Absent		Absent
Urobilinogen	Normal		Normal
<b><u>MICROSCOPIC EXAMINATION</u></b>			
Pus Cells	<b>Occasional</b>	/hpf	Absent
Red Blood Cells	Absent	/hpf	Absent
Epithelial Cells	<b>3-4</b>	/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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