

Age / Gender: 56 years / Female

Patient ID: 7388

Source: MEDI WHEEL

Referral: SELF

**Collection Time :** Jul 30, 2022, 11:21 a.m. **Reporting Time :** Jul 30, 2022, 06:33 p.m.

Sample ID:

Test Description	Value(s)	Reference Range	Unit
CBC; Complete Blood Count			
Hemoglobin (Hb)*  Method : Cynmeth Photometric Measurement	11.2	12.0 - 15.0	gm/dL
Erythrocyte (RBC) Count*  Method : Electrical Impedence	4.06	3.8 - 4.8	mil/cu.mm
Packed Cell Volume (PCV)*  Method : Calculated	34.9	36 - 46	%
Mean Cell Volume (MCV)*  Method : Electrical Impedence	86	83 - 101	fL
Mean Cell Haemoglobin (MCH)*  Method : Calculated	27.7	27 - 32	pg
Mean Corpuscular Hb Concn. (MCHC)*  Method : Calculated	32.2	31.5 - 34.5	gm/dL
Red Cell Distribution Width (RDW)*  Method : Electrical Impedence	14.8	11.6 - 14.0	%
Total Leucocytes (WBC) Count*  Method : Electrical Impedence	7600	4000-10000	cell/cu.mm
Neutrophils*  Method : VCSn Technology	56	40 - 80	%
Lymphocytes*  Method : VCSn Technology	35	20 - 40	%
Monocytes*  Method : VCSn Technology	6	2 - 10	%
Eosinophils*  Method : VCSn Technology	3	1 - 6	%
Basophils	0	0 - 1	
Platelet Count*  Method : Electrical Impedence	2.67	1.5 - 4.5	10^3/ul
Mean Platelet Volume (MPV)*  Method : Electrical Impedence	8.7	7.2 - 11.7	fL

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Test Description	Value(s)	Reference Range	Unit
PCT*	0.23	0.2 - 0.5	%
Method : Calculated			
PDW*	14.5	9.0 - 17.0	%
Method : Calculated			

Tests done on Automated Three Part Cell Counter. (WBC, RBC, Platelet count by impedance method, colorimetric method for Hemoglobin, WBC differential by flow cytometry using laser technology other parameters are calculated). All Abnormal Haemograms are reviewed confirmed microscopically.

## Esr, Erythrocyte Sedimentation Rate

Esr, Erythrocyte Sedimentation Rate (Westergren)

25

0-30

mm/hr

# Interpretation:

- It indicates presence and intensity of an inflammatory process. It does not diagnose a specific disease. Changes in the ESR are more significant than the abnormal results of a single test.
- It is a prognostic test and used to monitor the course or response to treatment of diseases like tuberculosis, bacterial endocarditis, acute rheumatic fever, rheumatoid arthritis, SLE, Hodgkins disease, temporal arteritis and polymyalgia rheumatica.
- It is also increased in pregnancy, multiple myeloma, menstruation, and hypothyroidism.

### **Blood Group & Rh Type**

**Blood Grouping & Rh Typing** 

"O" POSITIVE (+VE)

Method : Forward and Reverse By Tube Method

### Methodology

This is done by forward and reverse grouping by tube Agglutination method.

#### Interpretation

Newborn baby does not produce ABO antibodies until 3 to 6 months of age. So the blood group of the Newborn baby is done by ABO antigen grouping (forward grouping) only, antibody grouping (reverse grouping) is not required. Confirmation of the New-born's blood group is indicated when the A and B antigen expression and the isoagglutinins are fully developed (2–4 years).

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Sample ID:



Test Description	Value(s)	Reference Range	Unit
Fasting - Glucose			
Glucose Fasting*  Method : Plasma, Hexokinase	96	Normal: 70-110 Impaired Fasting Glucose (IFG): 110-125 Diabetes Mellitus: >= 126 (On more than one occasion) (American Diabetes Association guidelines 2017)	mg/dL
Fasting Urine Sugar			
Fasting Urine Sugar	NEGATIVE	NEGATIVE -	
Lipid Profile			
Cholesterol-Total  Method : Serum, Cholesterol oxidase esterase, peroxidase	123	Desirable: <= 200 Borderline High: 201-239 High: > 239 Ref: The National Cholesterol Education Program (NCEP) Adult Treatment Panel III Report.	mg/dL
Triglycerides  Method : Serum, Enzymatic, endpoint	148	Normal: < 150 Borderline High: 150-199 High: 200-499 Very High: >= 500	mg/dL
Cholesterol-HDL Direct  Method : Serum, Direct measure-PEG	40	Normal: > 40 Major Heart Risk: < 40	mg/dL

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Sample ID:



Test Description	Value(s)	Reference Range	Unit
LDL Cholesterol  Method : Serum	53.4	Optimal: < 100 Near optimal/above optimal: 100-129 Borderline high: 130-159 High: 160-189 Very High: >= 190	mg/dL
Non - HDL Cholesterol, Serum  Method : calculated	83	Desirable: < 130 mg/dL Borderline High: 130-159mg/dL High: 160-189 mg/dL Very High: > or = 190 mg/dL	mg/dL
VLDL Cholesterol  Method : calculated	29.6	6 - 38	mg/dL
CHOL/HDL RATIO  Method : calculated	3.0	3.5 - 5.0	ratio
LDL/HDL RATIO  Method : calculated	1.3	Desirable / low risk - 0.5 -3.0 Low/ Moderate risk - 3.0- 6.0 Elevated / High risk - > 6.0	ratio
HDL/LDL RATIO  Method : calculated	0.7	Desirable / low risk - 0.5 -3.0 Low/ Moderate risk - 3.0- 6.0 Elevated / High risk - > 6.0	ratio
Note: 8-10 hours fasting sample is required.			
Liver Function Test  Bilirubin - Total  Method : Serum, Diazotization	0.5	Adults and Children: < 1.2	mg/dL
Bilirubin - Direct  Method : Serum, Diazotization	0.2	Adults and Children: < 0.5	mg/dL
Bilirubin - Indirect Method : Serum, Calculated	0.3	0.1 - 1.0	mg/dL

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Sample ID:

668420756

Test Description	Value(s)	Reference Range	Unit
2007	0.5	F0	110
SGOT	95	< 50	U/L
Method : Serum, UV with P5P, IFCC 37 degree	73	. 50	U/L
SGPT  Method : Serum, UV with P5P, IFCC 37 degree	73	< 50	U/L
Alkaline Phosphatase-ALPI	118	30-120	U/L
Method : Serum, PNPP, AMP Buffer, IFCC 37 degree			
Total Protein	6.7	6.6 - 8.3	g/dL
Method : Serum, Biuret, reagent blank end point			
Globulin	3.0	1.8 - 3.6	g/dL
Method : Calculated			
Albumin	3.6	Adults: 3.5 - 5.2	g/dL
Method : Serum, Bromcresol purple			
A/G Ratio	1.1	1.2 - 2.2	ratio
Method : Calculated			
GGT-Gamma Glutamyl Transpeptidae	-	< 55	U/L
Method : Serum, G-glutamyl-carboxy-nitoanilide			
KIDNEY FUNCTION TEST			
Urea *	17	17- 43	mg/dL
Method : Serum			
Blood Urea Nitrogen-BUN*	7.9	7 - 18	mg/dL
Method : Serum, Urease			
Uric Acid*	6.2	3.5 - 7.2	mg/dL
Method : Serum, Uricase/POD			
Creatinine*	0.6	0.51 - 0.95	mg/dL
Method : Serum, Jaffe IDMS			
Urine Routine			
Colour*	Yellow	Pale Yellow	
Transparency (Appearance)*	Clear	Clear	

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Test Description	Value(s)	Reference Range	Unit
Dt			
Deposit*	Absent	Absent	
Reaction (pH)*	5.0	4.5 - 8	
Specific Gravity*	1.020	1.010 - 1.030	
Chemical Examination (Automated Dip	ostick Method) Urine		
Urine Glucose (sugar)*	Absent	Absent	
Urine Protein (Albumin)*	Absent	Absent	
Urine Ketones (Acetone)*	Absent	Absent	
Blood*	Absent	Absent	
Bile pigments*	Absent	Absent	
Nitrite*	Absent	Absent	
Urobilinogen*	Normal	Normal	
Microscopic Examination Urine			
Pus Cells (WBCs)*	1-2	0 - 5	/hpf
Epithelial Cells*	0-1	0 - 4	/hpf
Red blood Cells*	Absent	Absent	/hpf
Crystals*	Absent	Absent	
Cast*	Absent	Absent	
Trichomonas Vaginalis*	Absent	Absent	
Yeast Cells*	Absent	Absent	
Amorphous deposits*	Absent	Absent	
Bacteria*	Absent	Absent	
HBA1C (Glycosylated Haemoglobir	<u></u>		
Glyco Hb (HbA1C)	5.3	Non-Diabetic: <=5.9	%
Method : EDTA Whole blood,HPLC		Pre Diabetic:6.0-6.4	
		Diabetic: >=6.5	

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Test Description	Value(s)	Reference Range	Unit
Estimated Average Glucose :	105		mg/dL
Interpretations			

- 1. HbA1C has been endorsed by clinical groups and American Diabetes Association guidelines 2017 for diagnosing diabetes using a cut off point of 6.5%
- Low glycated haemoglobin in a non diabetic individual are often associated with systemic inflammatory diseases, chronic anaemia (especially severe iron deficiency and haemolytic), chronic renal failure and liver diseases. Clinical correlation suggested.
- 3. In known diabetic patients, following values can be considered as a tool for monitoring the glycemic control.

Excellent control-6-7 %

Fair to Good control – 7-8 %

Unsatisfactory control – 8 to 10 %

Poor Control – More than 10 %

### **Thyroid Function Test (TFT)**

THYROID STIMULATING HORMONE (TSH) uIU/mL 19.5 0.46 - 8.10 : 1 Yrs - 5 Yrs Method: CLIA 0.36 - 5.80 : 6 Yrs - 18 Yrs 0.35 - 5.50 : 18 Yrs - 55 Yrs 0.50 - 8.90 : >55 Yrs**Pregnancy Ranges::::** Ist Tri: 0.1 - 2.5 IInd Tri: 0.2 - 3.0 IIIrd Tri:0.3 - 3.0 **TOTAL TRIIODOTHYRONINE (T3)** 92 126 - 258 : 1 Yr - 5 Yr ng/dl 96 - 227 : 6 Yr - 15 Yr Method: CLIA 91 - 164 : 16 Yr - 18 Yr 60 - 181 : > 18 Years Pregnancy: 1st Trimester: 81 - 190 2nd & 3rd Trimester: 100 - 260

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Test Description	Value(s)	Reference Range	Unit
TOTAL THYROXINE (T4)	6.3		μg/dL
Method : CLIA		4.6 - 10.9	10
		Pregnancy:	
		4.6 – 16.5 : 1st Trimester	
		4.6 – 18.5 : 2nd & 3rd Tri	
Comments:	IF NOT ON D	RUGS SUGGESTED FT3 & FT4 I	ESTIMATION
	Please correl	ate with clinical conditions.	
		T3, T4 and TSH form the three co n diagnosing various disorders of t	, ,
	•	m is accompanied by depressed se	
	• • •	n TSH levels. Although elevated T	
		rimary Hypothyroidism, rarely they	•
		rs (Secondary hyperthyroidism)To	<b>o</b>
	FT3 and FT4.	- ( , )	

\*\*END OF REPORT\*\*

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Hemoglobin (Hb)*  Method : Cynmeth Photometric Measurement	11.2	12.0 - 15.0	gm/dL
Erythrocyte (RBC) Count*  Method : Electrical Impedence	4.06	3.8 - 4.8	mil/cu.mm
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Mean Cell Haemoglobin (MCH)*  Method : Calculated	27.7	27 - 32	pg
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Red Cell Distribution Width (RDW)*  Method : Electrical Impedence	14.8	11.6 - 14.0	%
Total Leucocytes (WBC) Count*  Method : Electrical Impedence	7600	4000-10000	cell/cu.mm
Neutrophils*  Method : VCSn Technology	56	40 - 80	%
Lymphocytes*  Method : VCSn Technology	35	20 - 40	%
Monocytes*  Method : VCSn Technology	6	2 - 10	%
Eosinophils*  Method : VCSn Technology	3	1 - 6	%
Basophils	0	0 - 1	
Platelet Count*  Method : Electrical Impedence	2.67	1.5 - 4.5	10^3/ul
Mean Platelet Volume (MPV)*  Method : Electrical Impedence	8.7	7.2 - 11.7	fL

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Test Description	Value(s)	Reference Range	Unit
PCT*	0.23	0.2 - 0.5	%
Method : Calculated			
PDW*	14.5	9.0 - 17.0	%
Method : Calculated			

Tests done on Automated Three Part Cell Counter. (WBC, RBC, Platelet count by impedance method, colorimetric method for Hemoglobin, WBC differential by flow cytometry using laser technology other parameters are calculated). All Abnormal Haemograms are reviewed confirmed microscopically.

## Esr, Erythrocyte Sedimentation Rate

Esr, Erythrocyte Sedimentation Rate (Westergren)

25

0-30

mm/hr

# Interpretation:

- It indicates presence and intensity of an inflammatory process. It does not diagnose a specific disease. Changes in the ESR are more significant than the abnormal results of a single test.
- It is a prognostic test and used to monitor the course or response to treatment of diseases like tuberculosis, bacterial endocarditis, acute rheumatic fever, rheumatoid arthritis, SLE, Hodgkins disease, temporal arteritis and polymyalgia rheumatica.
- It is also increased in pregnancy, multiple myeloma, menstruation, and hypothyroidism.

### **Blood Group & Rh Type**

**Blood Grouping & Rh Typing** 

"O" POSITIVE (+VE)

Method : Forward and Reverse By Tube Method

### Methodology

This is done by forward and reverse grouping by tube Agglutination method.

#### Interpretation

Newborn baby does not produce ABO antibodies until 3 to 6 months of age. So the blood group of the Newborn baby is done by ABO antigen grouping (forward grouping) only, antibody grouping (reverse grouping) is not required. Confirmation of the New-born's blood group is indicated when the A and B antigen expression and the isoagglutinins are fully developed (2–4 years).

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Test Description	Value(s)	Reference Range	Unit
Fasting - Glucose			
Glucose Fasting*  Method : Plasma, Hexokinase	96	Normal: 70-110 Impaired Fasting Glucose (IFG): 110-125 Diabetes Mellitus: >= 126 (On more than one occasion) (American Diabetes Association guidelines 2017)	mg/dL
Fasting Urine Sugar			
Fasting Urine Sugar	NEGATIVE	NEGATIVE -	
Lipid Profile			
Cholesterol-Total  Method : Serum, Cholesterol oxidase esterase, peroxidase	123	Desirable: <= 200 Borderline High: 201-239 High: > 239 Ref: The National Cholesterol Education Program (NCEP) Adult Treatment Panel III Report.	mg/dL
Triglycerides  Method : Serum, Enzymatic, endpoint	148	Normal: < 150 Borderline High: 150-199 High: 200-499 Very High: >= 500	mg/dL
Cholesterol-HDL Direct  Method : Serum, Direct measure-PEG	40	Normal: > 40 Major Heart Risk: < 40	mg/dL

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Sample ID:



Test Description	Value(s)	Reference Range	Unit
LDL Cholesterol  Method : Serum	53.4	Optimal: < 100 Near optimal/above optimal: 100-129 Borderline high: 130-159 High: 160-189 Very High: >= 190	mg/dL
Non - HDL Cholesterol, Serum  Method : calculated	83	Desirable: < 130 mg/dL Borderline High: 130-159mg/dL High: 160-189 mg/dL Very High: > or = 190 mg/dL	mg/dL
VLDL Cholesterol  Method : calculated	29.6	6 - 38	mg/dL
CHOL/HDL RATIO  Method : calculated	3.0	3.5 - 5.0	ratio
LDL/HDL RATIO  Method : calculated	1.3	Desirable / low risk - 0.5 -3.0 Low/ Moderate risk - 3.0- 6.0 Elevated / High risk - > 6.0	ratio
HDL/LDL RATIO  Method : calculated	0.7	Desirable / low risk - 0.5 -3.0 Low/ Moderate risk - 3.0- 6.0 Elevated / High risk - > 6.0	ratio
Note: 8-10 hours fasting sample is required.			
Liver Function Test  Bilirubin - Total  Method : Serum, Diazotization	0.5	Adults and Children: < 1.2	mg/dL
Bilirubin - Direct  Method : Serum, Diazotization	0.2	Adults and Children: < 0.5	mg/dL
Bilirubin - Indirect Method : Serum, Calculated	0.3	0.1 - 1.0	mg/dL

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Sample ID:

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Test Description	Value(s)	Reference Range	Unit
2007	0.5	F0	110
SGOT	95	< 50	U/L
Method : Serum, UV with P5P, IFCC 37 degree	73	. 50	U/L
SGPT  Method : Serum, UV with P5P, IFCC 37 degree	73	< 50	U/L
Alkaline Phosphatase-ALPI	118	30-120	U/L
Method : Serum, PNPP, AMP Buffer, IFCC 37 degree			
Total Protein	6.7	6.6 - 8.3	g/dL
Method : Serum, Biuret, reagent blank end point			
Globulin	3.0	1.8 - 3.6	g/dL
Method : Calculated			
Albumin	3.6	Adults: 3.5 - 5.2	g/dL
Method : Serum, Bromcresol purple			
A/G Ratio	1.1	1.2 - 2.2	ratio
Method : Calculated			
GGT-Gamma Glutamyl Transpeptidae	-	< 55	U/L
Method : Serum, G-glutamyl-carboxy-nitoanilide			
KIDNEY FUNCTION TEST			
Urea *	17	17- 43	mg/dL
Method : Serum			
Blood Urea Nitrogen-BUN*	7.9	7 - 18	mg/dL
Method : Serum, Urease			
Uric Acid*	6.2	3.5 - 7.2	mg/dL
Method : Serum, Uricase/POD			
Creatinine*	0.6	0.51 - 0.95	mg/dL
Method : Serum, Jaffe IDMS			
Urine Routine			
Colour*	Yellow	Pale Yellow	
Transparency (Appearance)*	Clear	Clear	

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Test Description	Value(s)	Reference Range	Unit
-			
Deposit*	Absent	Absent	
Reaction (pH)*	5.0	4.5 - 8	
Specific Gravity*	1.020	1.010 - 1.030	
Chemical Examination (Automated Dip	ostick Method) Urine		
Urine Glucose (sugar)*	Absent	Absent	
Urine Protein (Albumin)*	Absent	Absent	
Urine Ketones (Acetone)*	Absent	Absent	
Blood*	Absent	Absent	
Bile pigments*	Absent	Absent	
Nitrite*	Absent	Absent	
Urobilinogen*	Normal	Normal	
Microscopic Examination Urine			
Pus Cells (WBCs)*	1-2	0 - 5	/hpf
Epithelial Cells*	0-1	0 - 4	/hpf
Red blood Cells*	Absent	Absent	/hpf
Crystals*	Absent	Absent	
Cast*	Absent	Absent	
Trichomonas Vaginalis*	Absent	Absent	
Yeast Cells*	Absent	Absent	
Amorphous deposits*	Absent	Absent	
Bacteria*	Absent	Absent	
HBA1C (Glycosylated Haemoglobin	<u>יי</u>		
Glyco Hb (HbA1C)	5.3	Non-Diabetic: <=5.9	%
Method : EDTA Whole blood,HPLC		Pre Diabetic:6.0-6.4	
		Diabetic: >=6.5	

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Test Description	Value(s)	Reference Range	Unit
Estimated Average Glucose :	105		mg/dL
Interpretations			

- 1. HbA1C has been endorsed by clinical groups and American Diabetes Association guidelines 2017 for diagnosing diabetes using a cut off point of 6.5%
- Low glycated haemoglobin in a non diabetic individual are often associated with systemic inflammatory diseases, chronic anaemia (especially severe iron deficiency and haemolytic), chronic renal failure and liver diseases. Clinical correlation suggested.
- 3. In known diabetic patients, following values can be considered as a tool for monitoring the glycemic control.

Excellent control-6-7 %

Fair to Good control – 7-8 %

Unsatisfactory control – 8 to 10 %

Poor Control – More than 10 %

### **Thyroid Function Test (TFT)**

THYROID STIMULATING HORMONE (TSH) uIU/mL 19.5 0.46 - 8.10 : 1 Yrs - 5 Yrs Method: CLIA 0.36 - 5.80 : 6 Yrs - 18 Yrs 0.35 - 5.50 : 18 Yrs - 55 Yrs 0.50 - 8.90 : >55 Yrs**Pregnancy Ranges::::** Ist Tri: 0.1 - 2.5 IInd Tri: 0.2 - 3.0 IIIrd Tri:0.3 - 3.0 **TOTAL TRIIODOTHYRONINE (T3)** 92 126 - 258 : 1 Yr - 5 Yr ng/dl 96 - 227 : 6 Yr - 15 Yr Method: CLIA 91 - 164 : 16 Yr - 18 Yr 60 - 181 : > 18 Years Pregnancy: 1st Trimester: 81 - 190 2nd & 3rd Trimester: 100 - 260

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Test Description	Value(s)	Reference Range	Unit	
TOTAL THYROXINE (T4)	6.3		μg/dL	
Method : CLIA		4.6 - 10.9		
		Pregnancy:		
		4.6 – 16.5 : 1st Trimester		
		4.6 - 18.5 : 2nd & 3rd Tri		
Comments:	IF NOT ON DRUGS SUGGESTED FT3 & FT4 ESTIMATION			
	Please correlate with clinical conditions.			
	Note: Serum T3, T4 and TSH form the three components of thyroid screening			
	panel, useful in diagnosing various disorders of the thyroid gland. Primary			
	Hypothyroidisn	n is accompanied by depressed se	erum T3 and T4 values and	
	elevated serum TSH levels. Although elevated TSH levels are nearly always			
	indicative of Primary Hypothyroidism, rarely they can from TSH secreting			
		s (Secondary hyperthyroidism)To	· ·	
	FT3 and FT4.	5 (Coochaary hyporthyrolaisin) ro	oommin diagnosis evaluate	
	i io and F14.			

\*\*END OF REPORT\*\*

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