Name	: Mrs. SANDHYA PODDAR		
PID No.	: MED120919744	Register On : 21/03/2022 11:13 AM	$\mathbf{\mathcal{O}}$
SID No.	: 522212217	Collection On : 21/03/2022 12:42 PM	
Age / Sex	: 52 Year(s) / Female	Report On : 22/03/2022 4:04 PM	MEDALL
Туре	: OP	Printed On : 24/03/2022 6:18 PM	
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
HAEMATOLOGY			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood'Spectrophotometry)	13.5	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	39.5	%	37 - 47
RBC Count (EDTA Blood/Impedance Variation)	4.64	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	85.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	29.0	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	34.1	g/dL	32 - 36
RDW-CV (Derived from Impedance)	13.5	%	11.5 - 16.0
RDW-SD (Derived from Impedance)	40.16	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	5900	cells/cu.mm	4000 - 11000
Neutrophils (Blood/Impedance Variation & Flow Cytometry)	56.8	%	40 - 75
Lymphocytes (Blood/Impedance Variation & Flow Cytometry)	33.4	%	20 - 45
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	2.4	%	01 - 06



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Monocytes (Blood/Impedance Variation & Flow Cytometry)	6.8	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	0.6	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	3.35	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	1.97	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.14	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.40	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.04	10^3 / µl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	192	10^3 / µl	150 - 450
MPV (Blood/Derived from Impedance)	12.9	fL	8.0 - 13.3
PCT (Automated Blood cell Counter)	0.25	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood/ <i>Modified Westergren</i> )	53	mm/hr	< 30



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	1.0	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.2	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.8	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.5	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.34	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	3.2	gm/dL	2.3 - 3.6
A : G Ratio (Serum/Derived)	1.4		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	77	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	73	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	121	U/L	53 - 141
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	31.7	U/L	< 38



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
Lipid Profile			
Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase)	231	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	185	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >=500

**INTERPRETATION:** The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the "usual" circulating level of triglycerides during most part of the day.

HDL Cholesterol (Serum/Immunoinhibition)	45	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/ <i>Calculated</i> )	149	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	37	mg/dL	< 30
Non HDL Cholesterol (Serum/ <i>Calculated</i> )	186.0	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220



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Investigation	<u>Observed</u> <u>Value</u>	Unit <u>Biological</u> Reference Interval
<b>INTERPRETATION:</b> 1.Non-HDL Cholesterol is now 2.It is the sum of all potentially atherogenic proteins inco-primary target for cholesterol lowering therapy.	proven to be a better c	
Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	5.1	Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0
Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated)	4.1	Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	3.3	Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0



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Investigation Glycosylated Haemoglobin (HbA1c)	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
HbA1C (Whole Blood/ <i>HPLC</i> )	10.7	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
INTERDRETATION. If Disketss Cood control (61)	7.0.0/ Esim somtrol	71 800/ Deem as	rtmol > -9.1.0/

**INTERPRETATION:** If Diabetes - Good control : 6.1 - 7.0 %, Fair control : 7.1 - 8.0 %, Poor control >= 8.1 %

Estimated Average Glucose	260.39	mg/dL
---------------------------	--------	-------

(Whole Blood)

#### **INTERPRETATION:** Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency,

hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values.

Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
<b>IMMUNOASSAY</b>			
THYROID PROFILE / TFT			
T3 (Triiodothyronine) - Total (Serum/ <i>CMIA</i> ) <b>INTERPRETATION:</b> <b>Comment :</b> Total T3 variation can be seen in other condition like preg Metabolically active.	1.28 nancy, drugs, neph	ng/mL rosis etc. In such cas	0.4 - 1.81 es, Free T3 is recommended as it is
T4 (Thyroxine) - Total (Serum/ <i>CMIA</i> )	10.02	µg/dL	4.2 - 12.0
<b>INTERPRETATION:</b> <b>Comment :</b> Total T4 variation can be seen in other condition like preg Metabolically active.	nancy, drugs, neph	rosis etc. In such cas	es, Free T4 is recommended as it is
TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescent Microparticle Immunoassay(CMIA))	3.14	µIU/mL	0.35 - 5.50
INTERPRETATION: Reference range for cord blood - upto 20 1 st trimester: 0.1-2.5 2 nd trimester 0.2-3.0 3 rd trimester : 0.3-3.0 (Indian Thyroid Society Guidelines) <b>Comment :</b> 1.TSH reference range during pregnancy depends on Iodii 2.TSH Levels are subject to circadian variation, reaching of the order of 50%,hence time of the day has influence of	peak levels between	n 2-4am and at a min	imum between 6-10PM. The variation can be

3. Values&amplt,0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>CLINICAL PATHOLOGY</b>			
PHYSICAL EXAMINATION			
Colour (Urine)	Pale yellow		
Appearance (Urine)	Clear		Clear
Volume (Urine)	15	mL	
<u>CHEMICAL EXAMINATION(Automated-</u> <u>Urineanalyser)</u>			
pH (Urine/AUTOMATED URINANALYSER)	5.5		4.5 - 8.0
Specific Gravity (Urine)	1.010		1.002 - 1.035
Ketones (Urine)	Negative		Negative
Urobilinogen (Urine/AUTOMATED URINANALYSER)	0.2		0.2 - 1.0
Blood (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Nitrite (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Bilirubin (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Protein (Urine)	Negative		Negative





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Туре	: OP	Printed On : 24/03/2022 6:18 PM	
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glucose (Urine)	Negative		Negative
Leukocytes (Urine) <u>MICROSCOPY(URINE DEPOSITS)</u>	Negative	leuco/uL	Negative
Pus Cells (Urine/Flow cytometry)	0-1	/hpf	3-5
Epithelial Cells (Urine)	0-1	/hpf	1-2
RBCs (Urine/Flow cytometry)	Nil	/hpf	2-3
Others (Urine)	Nil		Nil





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**Investigation** 

<u>Observed</u> <u>Value</u> <u>Unit</u>

Biological Reference Interval

## **IMMUNOHAEMATOLOGY**

BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination)

'B' 'Positive'

**INTERPRETATION:** Note: Slide method is screening method. Kindly confirm with Tube method for transfusion.



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Investigation <u>BIOCHEMISTRY</u>	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
BUN / Creatinine Ratio	11		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	220	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

**INTERPRETATION:** Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Glucose Postprandial (PPBS)	367	mg/dL	70 - 140
(Plasma - PP/GOD - POD)			

#### **INTERPRETATION:**

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti- diabetic medication during treatment for Diabetes.

Blood Urea Nitrogen (BUN)	8	mg/dL	7.0 - 21
(Serum/Urease-GLDH)			
Creatinine	0.7	mg/dL	0.6 - 1.1
(Serum/Jaffe Kinetic)			

**INTERPRETATION:** Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin ,cefazolin, ACE inhibitors ,angiotensin II receptor antagonists,N-acetylcyteine , chemotherapeutic agent such as flucytosine etc.

Uric Acid	6.3	mg/dL	2.6 - 6.0
(Serum/Uricase/Peroxidase)			



-- End of Report --

Name	SANDHYA PODDAR	ID	MED120919744	$\mathbf{M}$
Age & Gender	52/FeMale		21-03-2022 00:00:00	
Ref Doctor Name	MediWheel			MEDALL

## ABDOMINO-PELVIC ULTRASONOGRAPHY

**LIVER** is normal in shape, size and has uniform echopattern. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

GALL BLADDER show normal shape and has clear contents. Wall is of normal thickness. CBD is of normal calibre.

**PANCREAS** has normal shape, size and uniform echopattern. No evidence of ductal dilatation or calcification.

**SPLEEN** show normal shape, size (10.7 cms) and echopattern.

No demonstrable Para-aortic lymphadenopathy.

#### **BOTH KIDNEYS**

**Right kidney:** Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

Left kidney: Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

The kidney measures as follows:

-	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	9.7	1.5
Left Kidney	10.6	1.3

URINARY BLADDER show normal shape and wall thickness. It has clear contents. No evidence of diverticula.

UTERUS is anteverted and has normal shape and size. It has uniform myometrial echopattern. Endometrial echo is of normal thickness - mm.

Uterus measures LS: cms AP: cms TS: cms.

**OVARIES** are normal in size, shape and echotexture Right ovary measures

Left ovary measures

POD & adnexa are free. No evidence of ascites.

#### **IMPRESSION:** Pelvis pending

• No significant abnormality detected in the Abdomen & Pelvis.

Name	SANDHYA PODDAR	ID	MED120919744	
Age & Gender	52/FeMale		21-03-2022 00:00:00	
Ref Doctor Name	MediWheel			MEDALL

# DR. H.K. ANAND DR. C.R RAMACHANDRA DR. LOHITH H.P DR. VARSHA KALE CONSULTANT RADIOLOGISTS

Lh/sm

Name	SANDHYA PODDAR	ID	MED120919744	
Age & Gender	52/FeMale		21-03-2022 00:00:00	
Ref Doctor Name	MediWheel			MEDALL

## **2D ECHOCARDIOGRAPHIC STUDY**

## **M-mode measurement:**

AORTA	:	2.24	cms.	
LEFT ATRIUM	:	2.66	cms.	
AVS LEFT VENTRICLE	:	1.48	cms.	
(DIASTOLE)	:	4.09	cms.	
(SYSTOLE)	:	2.20	cms.	
VENTRICULAR SEPTUM	:			
(DIASTOLE)	:	0.90	cms.	
(SYSTOLE)	:	1.31	cms.	
POSTERIOR WALL	:			
(DIASTOLE)	:	0.93	cms.	
(SYSTOLE)	:	1.27	cms.	
EDV	:	73	ml.	
ESV	:	16	ml.	
FRACTIONAL SHORTENING	:	30	%	
EJECTION FRACTION	:	60	%	
EPSS	:		cms.	
RVID	:	1.80	cms.	

## **DOPPLER MEASUREMENTS:**

MITRAL VALVE:	E - 0.8	m/s	A - 1.0 m/s		NO MR.
AORTIC VALVE:	1.0	m/s			NO AR.
TRICUSPID VALVE: E -0.4	m/s	A - 0.5	5 m/s	NO TI	R.
PULMONARY VALVE:	0.8	m/s			NO PR.

Name	SANDHYA PODDAR	ID	MED120919744	
Age & Gender	52/FeMale		21-03-2022 00:00:00	
Ref Doctor Name	MediWheel	-		IVI



#### **2D ECHOCARDIOGRAPHY FINDINGS:**

Left Ventricle:Normal size, Normal systolic function.:No regional wall motion abnormalities.

Left Atrium	:	Normal.	
Right Ventricle :	Normal.		
Right Atrium	:	Normal.	
Mitral Valve	:	Normal. No mitral valve prolapsed.	
Aortic Valve	:	Normal.Trileaflet.	
Tricuspid Valve	:	Normal.	
Pulmonary Valve	:	Normal.	
IAS	:	Intact.	
IVS	:	Intact.	
Pericardium	:	No pericardial effusion.	

#### **IMPRESSION:**

• NORMAL SIZED CARDIAC CHAMBERS.

• NORMAL LV SYSTOLIC FUNCTION. EF: 60 %.

• NO REGIONAL WALL MOTION ABNORMALITIES.

• NORMAL VALVES.

<sup>•</sup> NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

Name	SANDHYA PODDAR	ID	MED120919744	
Age & Gender	52/FeMale		21-03-2022 00:00:00	
Ref Doctor Name	MediWheel			MEDALL

## DR. YASHODA RAVI

## CONSULTANT CARDIOLOGIST

Name	SANDHYA PODDAR	ID	MED120919744	1
Age & Gender	52/FeMale	Visit Date	21-03-2022 00:00:00	
Ref Doctor Name	MediWheel			M



# X - RAY CHEST PA VIEW

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

## **IMPRESSION:**

• No significant abnormality detected.

Name	SANDHYA PODDAR	ID	MED120919744	
Age & Gender	52/FeMale		21-03-2022 00:00:00	
Ref Doctor Name	MediWheel	-		MEDALL

## TEST COMPLETED