

Name	: Mrs. DAS AINDRILA	
PID No.	: MED111453889	Register On : 14/01/2023 10:39 AM
SID No.	: 423002305	Collection On : 14/01/2023 12:52 PM
Age / Sex	: 36 Year(s) / Female	Report On : 14/01/2023 6:53 PM
Туре	: OP	Printed On : 20/01/2023 8:52 AM
Ref. Dr	: MediWheel	

Investigation	Observed Value	<u>Unit</u>	Biological Reference Interval
HAEMATOLOGY			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood'Spectrophotometry)	13.18	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	40.3	%	37 - 47
RBC Count (EDTA Blood)	4.61	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood)	87.4	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	28.6	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	32.7	g/dL	32 - 36
RDW-CV (EDTA Blood)	14.0	%	11.5 - 16.0
RDW-SD (EDTA Blood)	42.83	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	5740	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	54.83	%	40 - 75
Lymphocytes (EDTA Blood)	28.21	%	20 - 45
Eosinophils (EDTA Blood)	11.23	%	01 - 06
Monocytes (EDTA Blood)	5.48	%	01 - 10



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Basophils (Blood)	0.24	%	00 - 02
INTERPRETATION: Tests done on Automated Five	Part cell counter. All	abnormal results are re	eviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	3.15	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	1.62	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.64	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.31	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood)	0.01	10^3 / µl	< 0.2
Platelet Count (EDTA Blood)	275.0	10^3 / µl	150 - 450
MPV (EDTA Blood)	9.33	fL	8.0 - 13.3
PCT (EDTA Blood/Automated Blood cell Counter)	0.26	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood)	17	mm/hr	< 20

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BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.31	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.19	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.12	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	13.66	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	9.80	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	29.61	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	77.1	U/L	42 - 98
Total Protein (Serum/Biuret)	6.82	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.41	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.41	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.83		1.1 - 2.2

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Lipid Profile			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	139.72	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/ <i>GPO-PAP with ATCS</i>)	62.37	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)	45.19	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/ <i>Calculated</i>)	82	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	12.5	mg/dL	< 30
Non HDL Cholesterol (Serum/ <i>Calculated</i>)	94.5	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>	<u>Unit</u>	<u>Biological</u> Reference Interval
INTERPRETATION: 1.Non-HDL Cholesterol is now 2.It is the sum of all potentially atherogenic proteins in co-primary target for cholesterol lowering therapy.	1		
Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	3.1		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/ <i>Calculated</i>)	1.4		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.8		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0

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Investigation Glycosylated Haemoglobin (HbA1c)	<u>Dbserved</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
HbA1C (Whole Blood/HPLC)	5.3	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
INTERPRETATION . If Disbetes - Good control : 61 - 70	% Fair control · 7	71-80% Po	or control $> -8.1\%$

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

Estimated Average Glucose	105.41	mg/dL
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(Whole Blood)

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past8 - 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 HbAlC 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 HbAlc.

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<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>		
1.19	ng/ml	0.7 - 2.04		
gnancy, drugs, neph	rosis etc. In such case	s, Free T3 is recommended as it is		
9.01	µg/dl	4.2 - 12.0		
(Serum/ECLIA) INTERPRETATION: Comment : Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.				
1.89	µIU/mL	0.35 - 5.50		
 (Serum/ECLIA) 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) Comment : 1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI. 2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%,hence time of the day has influence on the measured serum TSH concentrations. 				
	Value 1.19 gnancy, drugs, neph 9.01 gnancy, drugs, neph 1.89 ine intake, TPO stat peak levels betwee on the measured serve	Value 1.19 ng/ml gnancy, drugs, nephrosis etc. In such case 9.01 µg/dl gnancy, drugs, nephrosis etc. In such case 1.89 µIU/mL		

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



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	<u>Observed</u> <u>Unit</u> <u>Value</u>	<u>Biological</u> <u>Reference Interval</u>
CLINICAL PATHOLOGY		
<u>PHYSICAL EXAMINATION (URINE</u> <u>COMPLETE)</u>		
Colour (Urine)	Yellow	Yellow to Amber
Appearance (Urine)	Clear	Clear
Volume(CLU) (Urine)	30	
<u>CHEMICAL EXAMINATION (URINE</u> <u>COMPLETE)</u>		
pH (Urine)	6.0	4.5 - 8.0
Specific Gravity (Urine)	1.014	1.002 - 1.035
Ketone (Urine)	Negative	Negative
Urobilinogen (Urine)	Normal	Normal
Blood (Urine)	Negative	Negative
Nitrite (Urine)	Negative	Negative
Bilirubin (Urine)	Negative	Negative



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Protein (Urine)	Negative		Negative
Glucose (Urine/GOD - POD)	Negative		Negative
Leukocytes(CP) (Urine)	Negative		Negative
<u>MICROSCOPIC EXAMINATION</u> (URINE COMPLETE)			
Pus Cells (Urine)	0-1	/hpf	NIL
Epithelial Cells (Urine)	2-5	/hpf	NIL
RBCs (Urine)	NIL	/HPF	NIL
Others (Urine)	NIL		

INTERPRETATION: Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports are reviewed and confirmed microscopically.

Casts	NIL	/hpf	NIL
(Urine)			
Crystals	NIL	/hpf	NIL
(Urine)			

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Investigation

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination)

'O' 'Positive'

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

Dr Anusha.K.S Sr.Consultant Pathologist

<u>Unit</u>

Biological Reference Interval

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BIOCHEMISTRY			
BUN / Creatinine Ratio	18.2		6.0 - 22.0
Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	65.07	mg/dL	70 - 140
INTERPRETATION: Factors such as type, quantity and time of food intake, Ph		0	6 6

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.

Urine Glucose(PP-2 hours) (Urine - PP)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	9.1	mg/dL	7.0 - 21
Creatinine	0.50	mg/dL	0.6 - 1.1

(Serum/Modified Jaffe)

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 (Serum/ <i>Enzymatic</i>)	1.65	mg/dL	2.6 - 6.0
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DR SHAMIM JAVED MD PATHOLOGY KMC 88902

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-- End of Report --

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Age & Gender	36Y/FEMALE	Visit Date	14 Jan 2023
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2 D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

AORTA			: 2.6cms
LEFT ATRIUM			: 2.9cms
AVS			:
LEFT VENTRICLE	(DIASTOLE))	: 4.3cms
(SYS	TOLE)	: 2.7cm	ns
VENTRICULAR SEPTUM	(DIASTOLE)		: 0.8cms
(SYS	TOLE)	: 1.2cm	ns
POSTERIOR WALL	(DIASTOLE)		: 0.9cms
(SYS)	TOLE)	: 1.3cm	ns
EDV			: 81ml
ESV			: 28ml
FRACTIONAL SHORTENI	NG		: 36%
EJECTION FRACTION			: 65%
EPSS			:
RVID			: 1.94cms

DOPPLER MEASUREMENTS:

MITRAL VALVE	: E' 0.66 m/s	A' 0.45 m/s	NO MR
AORTIC VALVE	: 1.24 m/s		NO AR
TRICUSPID VALVE	: E' - m/s	A' - m/s	NO TR
PULMONARY VALVE	: 0.94 m/s		NO PR

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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.
Tricuspid valve Pulmonary valve	: Normal. : Normal.
Pulmonary valve	: Normal.

IMPRESSION:

- > NORMAL LV SYSTOLIC FUNCTION. EF: 65%.
- > NO REGIONAL WALL MOTION ABNORMALITIES.
- > NORMAL VALVES.
- > NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

DR. K.S. SUBRAMANI. MBBS, MD, DM (CARDIOLOGY) FESC, FICC SENIOR CONSULTANT INTERVENTIONAL CARDIOLOGIST Kss/vp

Note:

* Report to be interpreted by qualified medical professional.

> NORMAL SIZED CARDIAC CHAMBERS.

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* To be correlated with other clinical findings.
* Parameters may be subjected to inter and intra observer variations.
* Any discrepancy in reports due to typing errors should be corrected as soon as possible.

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ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER shows 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 shows normal shape and has clear contents. Gall bladder 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 shows normal shape, size and echopattern. No demonstrable Para -aortic lymphadenopathy.

KIDNEYS move well with respiration and have normal shape, size and echopattern. Cortico- medullary differentiations are well madeout. No evidence of calculus or hydronephrosis.

The kidney measures as follows:

<u> </u>	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	10.3	1.3
Left Kidney	10.0	1.5

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

UTERUS is anteverted and normal in size. It has uniform myometrial echopattern. Endometrial thickness measures 7mm Uterus measures as follows: LS: 7.5cms AP: 4.1cms TS: 4.6cms.

OVARIES are normal in size, shape and echotexture. No focal lesion seen. Ovaries measure as follows: **Right ovary**: 3.1 x 2.0cms **Left ovary**: 3.5 x 1.9cms

POD & adnexae are free.

No evidence of ascites/pleural effusion.

IMPRESSION:

> NO SIGNIFICANT ABNORMALITY DETECTED.

DR. APARNA CONSULTANT RADIOLOGIST

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A/vp

Name	DAS AINDRILA	Customer ID	MED111453889
Age & Gender	36Y/F	Visit Date	Jan 14 2023 10:38AM
Ref Doctor	MediWheel	-	

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.

DR. APARNA CONSULTANT RADIOLOGIST