

Name	UDHAYAKUMAR N P	ID	MED120898652
Age & Gender	35Year(s)/MALE	Visit Date	3/19/2022 12:00:00 AM
Ref Doctor Name	MediWheel		

SONOGRAM REPORT

WHOLE ABDOMEN

The liver is normal-sized and shows diffuse fatty changes. No focal lesion is seen.

The gall bladder is normal sized, smooth walled and contains no calculus.

There is no intra or extra hepatic biliary ductal dilatation.

The pancreas shows a normal configuration and echotexture. The pancreatic duct is normal.

The portal vein and IVC are normal.

The spleen is normal.

There is no free or loculated peritoneal fluid.

No para aortic lymphadenopathy is seen.

No abnormality is seen in the region of the adrenal glands.

The right kidney measures 11.6 x 5.9 cm.

The left kidney measures 11.7 x 5.5 cm.

Both kidneys are normal in size, shape and position. Cortical echoes are normal bilaterally.

There is no calculus or calyceal dilatation.

The ureters are not dilated.

The urinary bladder shows mild diffuse wall thickening (3.2 mm). There is no intravesical mass or calculus.

The prostate measures 2.7 x 2.3 x 3.8 cm (13 cc) and is normal sized.

The echotexture is homogeneous.

The seminal vesicles are normal.

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Age & Gender	35Year(s)/MALE	Visit Date	3/19/2022 12:00:00 AM
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Iliac fossae are normal.

IMPRESSION:

- **Fatty liver.**
- **Mild cystitis.**

**DR. UMALAKSHMI
SONOLOGIST**

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PID No. : MED120898652
SID No. : 602203433
Age / Sex : 35 Year(s) / Male
Ref. Dr : MediWheel

Register On : 19/03/2022 7:39 AM
Collection On : 19/03/2022 8:06 AM
Report On : 19/03/2022 10:26 PM
Printed On : 24/03/2022 6:44 PM
Type : OP

<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Absolute Monocyte Count (Blood/ Impedance Variation & Flow Cytometry)	0.5	10 ³ / µl	< 1.0
Absolute Basophil count (Blood/Impedance Variation & Flow Cytometry)	0.0	10 ³ / µl	< 0.2
Platelet Count (Blood/Impedance Variation)	225	10 ³ / µl	150 - 450
MPV (Blood/Derived from Impedance)	8.1	fL	7.9 - 13.7
PCT (Blood/Automated Blood cell Counter)	0.183	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Blood/Automated - Westergren method)	2	mm/hr	< 15

BIOCHEMISTRY

BUN / Creatinine Ratio	7.9		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	92.9	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, Fasting (Urine) (Urine - F/GOD - POD)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/ GOD-PAP)	109.3	mg/dL	70 - 140

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.

Urine Glucose(PP-2 hours) (Urine - PP)	Negative		Negative
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Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	7.8	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.99	mg/dL	0.9 - 1.3

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-acetylcysteine, chemotherapeutic agent such as flucytosine etc.

Uric Acid (Serum/Enzymatic)	6.7	mg/dL	3.5 - 7.2
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Liver Function Test

Bilirubin(Total) (Serum/DCA with ATCS)	0.68	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.19	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.49	mg/dL	0.1 - 1.0


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 Consultant Pathologist
 Reg No : 73347

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SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	29.8	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	48.3	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	32.5	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/ Modified IFCC)	71.3	U/L	53 - 128
Total Protein (Serum/Biuret)	7.50	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.40	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	3.10	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.42		1.1 - 2.2
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	207.6	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	210.5	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)	41.7	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	123.8	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	42.1	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	165.9	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220


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Investigation Observed Value Unit Biological Reference Interval

INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol. 2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	5		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
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Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated)	5		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
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LDL/HDL Cholesterol Ratio (Serum/Calculated)	3		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0
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Glycosylated Haemoglobin (HbA1c)

HbA1C (Whole Blood/HPLC)	4.9	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
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INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control >= 8.1 %

Estimated Average Glucose (Whole Blood)	93.93	mg/dL
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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.

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	1.06	ng/ml	0.7 - 2.04
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INTERPRETATION:

Comment :

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Tyroxine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	8.92	µg/dl	4.2 - 12.0
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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.

TSH (Thyroid Stimulating Hormone) (Serum /Chemiluminescent Immunometric Assay (CLIA))	1.23	µIU/mL	0.35 - 5.50
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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.

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

CLINICAL PATHOLOGY

Urine Analysis - Routine

COLOUR (Urine)	Pale yellow		Yellow to Amber
APPEARANCE (Urine)	Clear		Clear
Protein (Urine/Protein error of indicator)	Negative		Negative
Glucose (Urine/GOD - POD)	Negative		Negative
Pus Cells (Urine/Automated .ÅFlow cytometry)	1 - 2	/hpf	NIL
Epithelial Cells (Urine/Automated .ÅFlow cytometry)	1 - 2	/hpf	NIL
RBCs (Urine/Automated .ÅFlow cytometry)	NIL	/hpf	NIL
Casts (Urine/Automated .ÅFlow cytometry)	NIL	/hpf	NIL
Crystals (Urine/Automated .ÅFlow cytometry)	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.

Stool Analysis - ROUTINE

Colour (Stool)	Brown		Brown
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Blood (Stool)	Absent		Absent
Mucus (Stool)	Absent		Absent
Reaction (Stool)	Acidic		Acidic
Consistency (Stool)	Semi Solid		Semi Solid
Ova (Stool)	NIL		NIL
Others (Stool)	NIL		NIL
Cysts (Stool)	NIL		NIL
Trophozoites (Stool)	NIL		NIL
RBCs (Stool)	NIL	/hpf	Nil
Pus Cells (Stool)	1 - 2	/hpf	NIL
Macrophages (Stool)	NIL		NIL
Epithelial Cells (Stool)	NIL	/hpf	NIL

-- End of Report --