



DEPARTMENT OF LABORATORY SERVICES

Patient	Ms. PRIYANKA KUMARI	Lab No/ManualNo	4110120/
UHIDNo/IPNO	400216249	CollectionDate	23/09/2024 10:28AM
Age/Gender	34 Years/Female	Receiving Date	23/09/2024 11:24AM
Bed No/Ward	OPD	Report Date	23/09/2024 4:37PM
Referred By	PHC Department	Report Status	Final
		Sample Quality	

Test Name	Result	Unit	Bio. Ref. Range	Method	Sample
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Biochemistry

MediWheel Full Body Annual Plus

***SERUM CREATININE**

Serum

Serum - Creatinine	L 0.5	mg/dL	0.8 - 1.2	Enzymatic (Creatinine Amidohydrolase)	
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Interpretation:-

Serum creatinine and urinary creatinine excretion is a function of lean body mass in normal persons and shows little or no response to dietary changes. The serum creatinine concentration is higher in men than in women. Since urinary creatinine is excreted mainly by glomerular filtration, with only small amounts due to tubular secretion, serum creatinine and a 24-hour urine creatinine excretion can be used to estimate the glomerular filtration rate. Serum creatinine is increased in acute or chronic renal failure, urinary tract obstruction, reduced renal blood flow, shock, dehydration, and rhabdomyolysis. Causes of low serum creatinine concentration include debilitation and decreased muscle mass. common in the elderly, in the bedridden, and in patients with advanced malignancy.

***URIC ACID (SERUM)**

Serum

Serum Uric Acid	3.7	mg/dL	3.0 - 5.9	Uricase	
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Interpretation:-

Uric acid is the end product of purine metabolism. Elevations of uric acid occur in renal failure, prerenal azotemia, gout, lead poisoning, excessive cell destruction (e.g., following chemotherapy), hemolytic anemia, and congestive heart failure and after myocardial infarction. Uric acid is also increased in some endocrine disorders, acidosis, toxemia of pregnancy, hereditary gout, and glycogen storage disease type I. A low uric acid concentration may be found following treatment by some drugs (e.g., low-dose aspirin), with low dietary intake of purines, in the presence of renal tubular defects, and in xanthinuria.

***LIPID PROFILE SERUM**

Serum

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Dr. Nutan Sood
MD (Pathology)
Senior Consultant, Laboratory Services,
Regd No: HN 012481



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Cholesterol	174	mg/dL	Method :Cholesterol oxidase, esterase, peroxidase	Cholesterol oxidase, esterase,peroxidase
			Adults (>=20 Years) Desirable <200 mg/dL, Borderline 200-239 mg/dL High >240 mg/dL	
HDL Cholesterol	60	mg/dL	40 - 60	Direct measure, PTA/MgCl ₂
Triglycerides	87	mg/dL	Method : Enzymatic	Enzymatic method
			Normal < 150 mg/dl, Borderline High 150-199 mg/dl, High 200-499 mg/dl, Very High >=500 mg/dl	
Cholesterol VLDL	17.4	mg/dL	0 - 40	Calculated
Cholesterol / HDL Ratio	2.9			Calculated
LDL	96.6	mg/dL	0 - 100	Calculated
LDL/HDL Ratio	1.61			Calculated

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NCEP Guidelines:

Lipid	Desirable	Borderline High	High	Very High
Total Cholesterol	< 200	200-239	> 240	
LDL Cholesterol	< 100	130-159	160-189	> 190
HDL Cholesterol	> 60	< 40 (Risk factor)		
Triglycerides	< 150	150-199	200-499	> 500

***BLOOD UREA**

Serum

Serum - Urea 20 mg/dL 15 - 36 Urease with indicator dye

Interpretation:-

The major pathway of nitrogen excretion is in the form of urea that is synthesized in the liver, released into the blood, and cleared by the kidneys. A high serum urea nitrogen occurs in glomerulonephritis, shock, urinary tract obstruction, pyelonephritis, and other causes of acute and chronic renal failure. Severe congestive heart failure, hyperalimentionation, diabetic ketoacidosis, dehydration, and bleeding from the gastrointestinal tract elevate urea nitrogen. Low urea nitrogen often occurs in normal pregnancy, with decreased protein intake, in acute liver failure, and with intravenous fluid administration.

***FT3 + FT4 + TSH**

Serum

Free T3	3.35	pg/mL	2.77 - 5.27	Chemiluminescence
Free T4	1.11	ng/dL	0.78 - 2.19	Chemiluminescence
Thyroid Stimulating Hormone	0.96	mIU/L	0.46 - 4.68	Chemiluminescence
TSH Interpretation				

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Interpretation :

Elevated free triiodothyronine (FT3) values are associated with thyrotoxicosis or excess thyroid hormone replacement. Useful for : It provides further confirmation of hyperthyroidism, supplementing the tetraiodothyronine (T4), sensitive thyrotropin (S TSH), and total T3 assays Evaluating clinically euthyroid patients who have an altered distribution of binding proteins Monitoring thyroid hormone replacement therapy Free triiodothyronine(FT3) is not a sensitive test for hypothyroidism. Elevated values suggest hyperthyroidism or exogenous thyroxine (T4). Decreased values suggest hypothyroidism. The test generally is used as a second-line test after thyroid- stimulating hormone (TSH) to help evaluate TSH changes.

The free thyroxine value, combined with the TSH value, gives a more accurate picture of the thyroid status in patients with abnormal thyroid-binding globulin levels such as those who are pregnant or those who are receiving treatment with estrogens, androgens, phenytoin, or salicylates.

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Note

1. TSH levels are subject to circadian variation. Levels may vary during different time intervals .
2. Drugs which can lower TSH without inducing thyroid dysfunction are
 - * Glucocorticoids in high dose during initial treatment or prolonged exposure of glucocorticoid therapy
 - * Dopamine or Dobutamine
 - * Octreotide

NEONATAL BIOLOGICAL REFERENCE RANGE

Test Name	Age	Unit	Biological Ref. Range
FT3:	0- 1 month	pg/ml	(3.0 - 6.0)
	1 month - 23 month	pg/ml	(3.28- 5.19)
	24month - 12 years	pg/ml	(3.34 - 4.80)
FT4:	0- 03 days	ng/dL	(2.0 - 5.0)
	03days - 01 month	ng/dL	(0.9- 2.2)
	01month - 18 years	ng/dL	(0.8 - 2.0)
TSH:	0- 03days	mIU/L	(1.0- 20.0)
	03days - 01 month	mIU/L	(0.5- 6.5)
	01month - 18 years	mIU/L	(0.5 - 6.0)

***GLUCOSE (FASTING).**

PLASMA(FLUORIDE)

Glucose F	89.00	mg/dL	70.00 - 100.00	Glucose oxidase ,hydrogen Peroxidase
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Interpretation:-

Glucose is a primary cellular energy source. Fasting plasma glucose concentrations and tolerance to a dose of glucose are used to establish the diagnosis of diabetes mellitus and disorders of carbohydrate metabolism. Glucose measurements are used to monitor therapy in diabetics and in patients with dehydration, coma, hypoglycemia, insulinoma, acidosis, and ketoacidosis.

****End Of Report****

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Test Name	Result	Unit	Bio. Ref. Range	Method	Sample
Biochemistry					
MediWheel Full Body Annual Plus					
*GLUCOSE (PP)					PLASMA(FLUORIDE)
Glucose - Post Prandial (PPBS)	119	mg/dL	40 - 140	Glucose oxidase ,hydrogen Peroxidase	

Interpretation:-

Glucose is a primary cellular energy source. Fasting plasma glucose concentrations and tolerance to a dose of glucose are used to establish the diagnosis of diabetes mellitus and disorders of carbohydrate metabolism. Glucose measurements are used to monitor therapy in diabetics and in patients with dehydration, coma, hypoglycemia, insulinoma, acidosis, and ketoacidosis.

End Of Report

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Test Name	Result	Unit	Bio. Ref. Range	Method	Sample
Biochemistry					
MediWheel Full Body Annual Plus					
*GLYCOCYLATED HEMOGLOBIN (HBA1C)					EDTA Blood

HbA1C -(Glycosylated Hemoglobin)	5.2		%	HPLC	
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Biological Ref. Range:

- | | |
|--------------|-----------------------------|
| Hb A1c (%) | - Degree of Glucose control |
| <5.6% | - Normal |
| 5.7% to 6.4% | - Prediabetes |
| >=6.5% | - Diabetes |
| <7% | - ADA Target |
| >8% | - Action Suggested |

End Of Report

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Biochemistry

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***LIVER FUNCTION TEST (LFT) SERUM**

Serum

Serum -Total Protein	7.9	g/dL	6.3 - 8.2	Biuret Method	
Serum - Albumin	4.2	g/dL	3.5 - 5.0	BCG	
Globulin	3.7	g/dL	2 - 5	Calculated	
AG Ratio	1.14		1 - 2	Calculated	
Serum - SGOT / AST (Aspartate Amino Transferase)	22	U/L	14 - 36	Kinetic(leuco dye) with pyridoxal 5 phosphate	
Serum - SGPT / ALTV (Alanine Amino Transferase)	20	U/L	5 - 35	Reflectance spectrophotometry/ kinetic with pyridoxal -5- phosphate	
Serum- GGT	L 11	U/L	12 - 43	L-G-glutamyl-p-nitroanilide	
Serum - Alkaline Phosphatase	86	U/L	38 - 126	P-nitrophenyl phosphate	
Bilirubin Total	0.6	mg/dL	0.2 - 1.3	Diphylline, Diazonium Salt	
Bilirubin Direct	0.3	mg/dL		Calculated	
			Calculated		
			Neonate Ref. Range. 0 - 30 Days - (0.0 -0.6) mg/dL Adult Ref. Range. >30 Days - (0.0-0.3) mg/dL		
Bilirubin Indirect	0.3	mg/dL	0.0 - 1.1	Dual wavelength	

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Interpretation:-

Total bilirubin in serum and plasma is the sum of unconjugated bilirubin (Bu), mono- and di-glucuronide conjugated bilirubin (Bc)?, and delta bilirubin (DELB), a bilirubin fraction covalently bound to albumin. With the exception of anicteric jaundice, total serum bilirubin is invariably increased in jaundice. Causes of jaundice are prehepatic, resulting from various hemolytic diseases; hepatic, resulting from hepatocellular injury or obstruction; and posthepatic, resulting from obstruction of the hepatic or common bile ducts.

Jaundice has been classified as unconjugated and conjugated hyperbilirubinemia. Increased plasma-unconjugated bilirubin is commonly seen in hemolytic disorders, Gilbert's syndrome, Crigler-Najjar syndrome, neonatal jaundice, and ineffective erythropoiesis and in the presence of drugs competing for glucuronide. Increased plasma-conjugated bilirubin occurs with hepatobiliary disorders, including intrahepatic and extrahepatic biliary tree obstruction, liver cell damage, Dubin-Johnson syndrome, and Rotor syndrome. Neonatal bilirubin, the sum of Bu and Bc, is increased in erythroblastosis fetalis (hemolytic disease of the newborn), which causes jaundice in the first two days of life. Other causes of neonatal jaundice include physiologic jaundice, hematoma/hemorrhage, hypothyroidism, and obstructive jaundice.

Aspartate aminotransferase is present in high activity in heart, skeletal muscle, and liver. Increased serum AST activity commonly follows myocardial infarction, pulmonary emboli, skeletal muscle trauma, alcoholic cirrhosis, viral hepatitis, and drug-induced hepatitis.

Alanine aminotransferase is present in high activity in liver, skeletal muscle, heart, and kidney. Serum ALT increases rapidly in liver cell necrosis, hepatitis, hepatic cirrhosis, liver tumors, obstructive jaundice, Reye's syndrome, extensive trauma to skeletal muscle, myositis, myocarditis, and myocardial infarction.

Alkaline phosphatase is present mainly in bone, liver, kidney, intestine, placenta, and lung. Serum alkaline phosphatase may be elevated in increased bone metabolism, for example, in adolescents and during the healing of a fracture; primary and secondary hyperparathyroidism; Paget's disease of bone; carcinoma metastatic to bone; osteogenic sarcoma; and Hodgkin's disease if bones are invaded. Hepatobiliary diseases involving cholestasis, inflammation, or cirrhosis increase alkaline phosphatase activity; alkaline phosphatase activity may be increased in renal infarction and failure and in the complications of pregnancy. Low alkaline phosphatase activity may occasionally be seen in hypothyroidism.

Serum proteins transport drugs and metabolites and maintain plasma osmotic pressure. Most serum proteins are synthesized in the liver, with the exception of gamma globulins. One of the most important serum proteins produced in the liver is albumin. Total serum protein concentration can be used for evaluation of nutritional status. Causes of high total serum protein concentration include dehydration, Waldenstrom's macroglobulinemia, multiple myeloma, hyperglobulinemia, granulomatous diseases, and some tropical diseases. Total protein concentration is occasionally increased in collagen diseases, lupus erythematosus, and other instances of chronic infection or inflammation. Causes of low total serum protein concentration include pregnancy, excessive intravenous fluid administration, cirrhosis or other liver diseases, chronic alcoholism, heart failure, nephrotic syndrome, glomerulonephritis, neoplasia, protein-losing enteropathies, malabsorption, and severe malnutrition.

****End Of Report****

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Bed No/Ward	OPD	Report Date	23/09/2024 3:00PM
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Clinical Pathology
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***URINE ROUTINE EXAMINATION**

Urine

Physical Examination:

Volume	50	mL		Physical Examination
Colour	Pale Yellow		Pale Yellow	Physical Examination
Appearance:	Clear			Physical Examination

Chemical Examination:

pH	6.5		4.6 - 8.0	Indicator Test
Specific Gravity	1.005		1.000 - 1.035	Ion Exchange
Protein	Nil			Protein Error of Indicator/ Sulphosalicylic Acid
Glucose	Nil			Glucose Oxidase - Peroxidase/ Benedict's Method
Ketone	Nil			Nitroprusside Reaction / Rothera's Method
Bilirubin	Absent			Diazonium Method/ Fouchet's Method
Urobilinogen	Normal			Ehrlich's Reaction/ Ehrlich's Reagent
Nitrite:	Negative		Negative	Diazotization Reaction
Blood :	Nil			Peroxidase Reaction

Microscopic Examination:

Casts	Nil		Nil	Microscopy
Epithelial cells	0-2	/HPF	0 - 1	Microscopy
Pus Cells	0-2	/HPF	0 - 5	Microscopy
RBC	00	/HPF	0 - 2	Microscopy
Crystals	Nil		Nil	Microscopy

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DMC Regd No: 63478



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Interpretation:-

Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders.

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever. Protein reported in urine as Negative(<15 mg/dl), 1+(≥30 mg/dl), 2+(≥100 mg/dl) & 3+(≥500 mg/dl).

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications. Glucose reported in urine as Negative (<25 mg/dl), 1+(≥50 mg/dl), 2+(≥100 mg/dl), 3+(≥300 mg/dl), 4+(≥1000 mg/dl).

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or hemoglobin, which can occur in various urological, nephrological and bleeding disorders.

Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Positive nitrite test suggestive of 10⁵ or more organism in 1 ml of urine specimen.

pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/alkalosis or ingestion of certain type of food can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.

Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.

Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia.

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Haematology

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***ERYTHROCYTE SEDIMENTATION RATE (ESR)**

EDTA Blood

Erythrocyte Sedimentation Rate (ESR)	H 36	mm/hr	0 - 20	Modified westergren Method
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Interpretation:-

Erythrocyte sedimentation rate (ESR) is a non-specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants (e.g. pyogenic infections, inflammation and malignancies). The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week post-partum. ESR is influenced by age, sex, menstrual cycle and drugs (eg. corticosteroids, contraceptives). It is especially low (0 -1mm) in polycythemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis or sickle cells.

COMPLETE BLOOD COUNT(CBC) EDTA WHOLE BLOOD

EDTA Blood

Haemoglobin	L 12.1	g/dL	12.5 - 16.0	Spectrophotometry (Cyanide free method)
Hematocrit/PCV	L 35.7	%	37.0 - 47.0	Derived from RBC pulse height detection
RBC COUNT	L 4.00	10 ⁶ /μL	4.20 - 5.40	Electrical Impedance
MCV	89.4	fl	78.0 - 100.0	Calculated
MCH	30.2	pg	27.0 - 31.0	Calculated
MCHC	33.8	g/dL	31.5 - 34.5	Calculated
RDW-CV	12.2	%	11.5 - 14.0	Calculated
Platelet count	279	10 ³ /μL	150 - 450	Electrical Impedance
Total Leucocyte Count (TLC)	7.28	10 ³ /μL	4.00 - 10.50	Double Hydrodynamic Sequential System (DHSS)

Differential Leucocyte Count

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Neutrophils	62.0	%	40 - 80	Flow Cytometry
Lymphocytes	29.2	%	20 - 40	Flow Cytometry
Monocytes	7.0	%	2 - 10	Flow Cytometry
Eosinophils	1.8	%	1 - 6	Flow Cytometry
Basophils	0	%	0 - 1	Flow Cytometry
Absolute Leucocyte Count				
Absolute Neutrophil Count	4.52	10 ³ /μL	1.50 - 6.60	Calculated
Absolute Lymphocyte Count	2.12	10 ³ /μL	1.50 - 3.50	Calculated
Absolute Monocyte Count	0.51	10 ³ /μL	0.00 - 1.00	Calculated
Absolute Eosinophil Count	0.13	10 ³ /μL	0.00 - 0.70	Calculated
Absolute Basophil Count	0.00	10 ³ /μL	0.00 - 1.00	Calculated

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Immuno-Haematology
MediWheel Full Body Annual Plus

***BLOOD GROUPING**

EDTA Blood

ABO GROUP	'A'	Tube Agglutination Method
RH Type	POSITIVE	

Interpretation:-

Blood group is identified by antigens and antibodies present in the blood. Antigens are protein molecules found on the surface of red blood cells. Antibodies are found in plasma. To determine blood group, red cells are mixed with different antibody solutions to give A,B,O or AB.

Disclaimer: Please note, as the results of previous ABO and Rh group (Blood Group) for pregnant women are not available, please check with the patient records for availability of the same.

The test is performed by both forward as well as reverse grouping methods.

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ECHOCARDIOGRAPHY REPORT

Name	: MS PRIYANKA KUMARI	UHID	: 400216249
Age/Sex	: 34 Years / Female		
Referring Physician	: SELF	Date	: 23/09/2024
Indication	: R/o CAD		

M-Mode/2-D Description:

Doppler velocities (cm/sec)

Pulmonary valve		Aortic valve	
Max velocity	84	Max velocity	128
		Mean Velocity	
		Max PG	
		Mean PG	
Mitral valve		Tricuspid valve	
E	81	Max Velocity	51
A	59	TAPSE (> 1.5)	
DT		E/E' (< 6)	
E/E'		Mean Velocity =	

Regurgitation

MR		TR	
Severity	Trace	Severity	Trace
Max Velocity		PASP	19 mmHg
AR		PR	
Severity	Nil	Severity	Nil

Measurements (mm):

	Observed Values		Normal Values
Aortic root diameter	28 mm		20-36 (22mm/M ²)
Aortic Valve Opening	mm		15-26
Left Atrium size	27 mm		19-40
	End Diastole	End Systole	Normal Values
Left Ventricle size	40 mm	29 mm	(ED= 37-56)
Interventricular Septum	10 mm		(ED= 6-12)
Posterior Wall Thickness	09 mm		(ED= 5-10)
LV Ejection Fraction (%)	55.00%		55%-80%


PRIYANKA KUMARI,400216249

Final Interpretation:-

Study done at HR of ~ 63 bpm

- No LV Regional wall motion abnormality, LVEF ~ 55%
- Normal RV systolic function.
- Normal Cardiac chamber dimensions.
- Trace MR, No MS, No AS/AR.
- Trace TR with (RVSP~19 mmHg), No PS/PR.
- Normal mitral inflow pattern.
- No intra-cardiac clot/ Vegetation / Pericardial effusion seen.
- IVC normal in size with normal respiratory variation (RAP ~ 3 mmHg).

Dr. Anshul Goyal
MD, Medicine
Attending consultant- Cardiology



Dr. Yogendra Singh Rajput
MBBS, MD, DM FSCAI
Interventional Cardiologist
Associate Clinical Director-Cardiology

Name	Ms. Priyanka Kumari	Date	23-09-24
Age/Gender	34 years F	UHID	400216249

Presenting Complaints:

Past History: DM | HT | CAD

IOP: Right Eye: 16 mmHg Left Eye: 17 mmHg POG RE:
LE:

Spectacles	Sphere	Cylinder	Axis	Vision	Near add	Vision
Right Eye				6/6		N6
Left Eye				6/6		N6

Clinical Features:

_____ mme

Diagnosis:

Advice:

Enlyfas.

Dr Shibal Bhartiya

Clinical Director, Ophthalmology | Program Director, Community Outreach & Wellness
HN-15650

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H-2019-0615

Patient ID :	400216249	Paient Name :	PRIYANKA
Age :	34 Years	Sex :	F
Ref Physician :	DR. SELF	Modality/Study :	US
Study Date :	23-Sep-2024	Reported Date :	23-Sep-2024
Study :			

ULTRASOUND WHOLE ABDOMEN

LIVER is normal in size (11.6 cm) and echotexture. No evidence of any focal lesion or IHBR dilaton is present. Portal vein and CBD are not dilated.

GALL BLADDER is well distended and lumen is echofree. Wall thickness is normal. No pericholecystic fluid is seen.

SPLEEN is normal in size (8.5 cm) and echotexture. No focal lesion is seen.

PANCREAS is normal in size and echotexture. Peripancreatic fat planes are clear.

RIGHT KIDNEY: is normal in size (11.0 x 3.9 cm) and position and outline corticomedullary differentiation is maintained. There is no evidence of any focal lesion / calculus / backpressure changes.

LEFT KIDNEY: is normal in size (11.2 x 4.2 cm) and position and outline corticomedullary differentiation is maintained. There is no evidence of any focal lesion / calculus / backpressure changes.

URINARY BLADDER is well distended and lumen is echofree. Wall thickness is normal. No evidence of any focal lesion.

Uterus: Anteverted in position and normal in size (9.1 x 4.8 x 3.0 cm). Myometrial echotexture is normal. There is no focal lesion. Endometrial thickness is 6.4 mm.

Ovaries: Both ovaries are normal in size and echotexture.

Right ovary measures 2.3 x 2.2 x 1.0 cm (vol. ~ 2.9 cc).

Left ovary measures 2.3 x 2.1 x 1.3 cm (vol. ~ 3.3 cc).

No evidence of any adnexal lesion. Cul de Sac is clear.

Impression: No significant abnormality is seen.

Please correlate clinically.


DR. JASMINE KOKILOO

MBBS, MD

Associate Consultant

MT-A