

<b>Visit ID</b>	: YOD516546	UHID/MR No	: YOD.0000498416
<b>Patient Name</b>	: Mr. RAJANALA SRINIVAS MURTHY	Client Code	: 1409
Age/Gender	: 53 Y 0 M 0 D /M	Barcode No	: 10751711
DOB	:	Registration	: 14/Oct/2023 08:34AM
Ref Doctor	: SELF	Collected	: 14/Oct/2023 08:59AM
Client Name	: MEDI WHEELS	Received	: 14/Oct/2023 10:33AM
Client Add	: F-701, Lado Sarai, Mehravli, N	Reported	: 14/Oct/2023 11:21AM
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**DEPARTMENT OF HAEMATOLOGY**

Test Name	Result	Unit	Biological Ref. Range	Method
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**ESR (ERYTHROCYTE SEDIMENTATION RATE)**

**Sample Type : WHOLE BLOOD EDTA**

ERYTHROCYTE SEDIMENTATION RATE	6	mm/1st hr	0 - 15	Capillary Photometry
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**COMMENTS:**

ESR is an acute phase reactant which indicates presence and intensity of an inflammatory process. It is never diagnostic of a specific disease. It is used to monitor the course or response to treatment of certain diseases. Extremely high levels are found in cases of malignancy, hematologic diseases, collagen disorders and renal diseases.

Increased levels may indicate: Chronic renal failure (e.g., nephritis, nephrosis), malignant diseases (e.g., multiple myeloma, Hodgkin disease, advanced Carcinomas), bacterial infections (e.g., abdominal infections, acute pelvic inflammatory disease, syphilis, pneumonia), inflammatory diseases (e.g. temporal arteritis, polymyalgia rheumatic, rheumatoid arthritis, rheumatic fever, systemic lupus erythematosus [SLE]), necrotic diseases (e.g., acute myocardial infarction, necrotic tumor, gangrene of an extremity), diseases associated with increased proteins (e.g., hyperfibrinogenemia, macroglobulinemia), and severe anemias (e.g., iron deficiency or B12 deficiency).

Falsely decreased levels may indicate: Sickle cell anemia, spherocytosis, hypofibrinogenemia, or polycythemia vera.

Verified By :  
Syed Hyder Ali



Approved By :



**DR PRANITHA ANAPINDI**  
MD , CONSULTANT PATHOLOGIST

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**BLOOD GROUP ABO & RH Typing**

**Sample Type : WHOLE BLOOD EDTA**

ABO	B			
Rh Typing	POSITIVE			

**Method : Hemagglutination Tube method by forward and reverse grouping**

**COMMENTS:**

The test will detect common blood grouping system A, B, O, AB and Rhesus (RhD). Unusual blood groups or rare subtypes will not be detected by this method. Further investigation by a blood transfusion laboratory, will be necessary to identify such groups.

**Disclaimer:** There is no trackable record of previous ABO & RH test for this patient in this lab. Please correlate with previous blood group findings. Advsiied cross matching before transfusion

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**CBC (COMPLETE BLOOD COUNT)**
**Sample Type : WHOLE BLOOD EDTA**

HAEMOGLOBIN (HB)	15.2	g/dl	13.0 - 17.0	Cyanide-free SLS method
RBC COUNT (RED BLOOD CELL COUNT)	<b>5.81</b>	million/cmm	4.50 - 5.50	Impedance
PCV/HAEMATOCRIT	46.8	%	40.0 - 50.0	RBC pulse height detection
MCV	<b>80.6</b>	fL	83 - 101	Automated/Calculated
MCH	<b>26.2</b>	pg	27 - 32	Automated/Calculated
MCHC	32.5	g/dl	31.5 - 34.5	Automated/Calculated
RDW - CV	12.8	%	11.0-16.0	Automated Calculated
RDW - SD	38.3	fl	35.0-56.0	Calculated
MPV	9.9	fL	6.5 - 10.0	Calculated
PDW	12.6	fL	8.30-25.00	Calculated
PCT	0.18	%	0.15-0.62	Calculated
TOTAL LEUCOCYTE COUNT	7,420	cells/ml	4000 - 11000	Flow Cytometry
<b>DLC (by Flow cytometry/Microscopy)</b>				
NEUTROPHIL	55.4	%	40 - 80	Impedance
LYMPHOCYTE	31.1	%	20 - 40	Impedance
EOSINOPHIL	<b>7.1</b>	%	01 - 06	Impedance
MONOCYTE	5.9	%	02 - 10	Impedance
BASOPHIL	0.5	%	0 - 1	Impedance
PLATELET COUNT	1.85	Lakhs/cumm	1.50 - 4.10	Impedance

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**THYROID PROFILE (T3,T4,TSH)**
**Sample Type : SERUM**

T3	1.15	ng/ml	0.60 - 1.78	CLIA
T4	8.93	ug/dl	4.82-15.65	CLIA
TSH	2.42	uIU/mL	0.30 - 5.60	CLIA

**INTERPRETATION:**

- Serum T3, T4 and TSH are the measurements form three components of thyroid screening panel and are useful in diagnosing various disorders of thyroid gland function.
- Primary hyperthyroidism is accompanied by elevated serum T3 and T4 values along with depressed TSH levels.
- Primary hypothyroidism is accompanied by depressed serum T3 and T4 values and elevated serum TSH levels.
- Normal T4 levels accompanied by high T3 levels are seen in patients with T3 thyrotoxicosis. Slightly elevated T3 levels may be found in pregnancy and in estrogen therapy while depressed levels may be encountered in severe illness, malnutrition, renal failure and during therapy with drugs like propranolol and propylthiouracil.
- Although elevated TSH levels are nearly always indicative of primary hypothyroidism, rarely they can result from TSH secreting pituitary tumors (secondary hyperthyroidism).
- Low levels of Thyroid hormones (T3, T4 & FT3, FT4) are seen in cases of primary, secondary and tertiary hypothyroidism and sometimes in non-thyroidal illness also.
- Increased levels are found in Grave's disease, hyperthyroidism and thyroid hormone resistance.
- TSH levels are raised in primary hypothyroidism and are low in hyperthyroidism and secondary hypothyroidism.

**9. REFERENCE RANGE :**

PREGNANCY	TSH in uIU/mL
1st Trimester	0.60 - 3.40
2nd Trimester	0.37 - 3.60
3rd Trimester	0.38 - 4.04

(References range recommended by the American Thyroid Association)

**Comments:**

- During pregnancy, Free thyroid profile (FT3, FT4 & TSH) is recommended.
- TSH levels are subject to circadian variation, reaches peak levels between 2-4 AM and at a minimum between 6-10 PM. The variation of the day has influence on the measured serum TSH concentrations.

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**LIVER FUNCTION TEST(LFT)**

Sample Type : SERUM				
TOTAL BILIRUBIN	0.65	mg/dl	0.3 - 1.2	JENDRASSIK & GROFF
CONJUGATED BILIRUBIN	0.13	mg/dl	0 - 0.2	DPD
UNCONJUGATED BILIRUBIN	0.52	mg/dl		Calculated
S.G.O.T	22	U/L	< 50	KINETIC WITHOUT P5P-IFCC
S.G.P.T	19	U/L	< 50	KINETIC WITHOUT P5P-IFCC
ALKALINE PHOSPHATASE	102	U/L	30 - 120	IFCC-AMP BUFFER
TOTAL PROTEINS	6.9	gm/dl	6.6 - 8.3	Biuret
ALBUMIN	4.2	gm/dl	3.5 - 5.2	BCG
GLOBULIN	2.7	gm/dl	2.0 - 3.5	Calculated
A/G RATIO	1.56			Calculated

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**LIPID PROFILE**
**Sample Type : SERUM**

TOTAL CHOLESTEROL	171	mg/dl	Refere Table Below	Cholesterol oxidase/peroxidase
H D L CHOLESTEROL	41	mg/dl	> 40	Enzymatic/ Immunoinhibitor
L D L CHOLESTEROL	106.8	mg/dl	Refere Table Below	Enzymatic Selective Protein
TRIGLYCERIDES	116	mg/dl	See Table	GPO
VLDL	23.2	mg/dl	15 - 30	Calculated
T. CHOLESTEROL/ HDL RATIO	4.17		Refere Table Below	Calculated
TRIGLYCEIDES/ HDL RATIO	<b>2.83</b>	Ratio	< 2.0	Calculated
NON HDL CHOLESTEROL	130	mg/dl	< 130	Calculated

**Interpretation**

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	TOTAL CHOLESTEROL	TRIGLYCERIDE	LDL CHOLESTEROL	NON HDL CHOLESTEROL
Optimal	<200	<150	<100	<130
Above Optimal	-	-	100-129	130 - 159
Borderline High	200-239	150-199	130-159	160 - 189
High	>=240	200-499	160-189	190 - 219
Very High	-	>=500	>=190	>=220

REMARKS	Cholesterol : HDL Ratio
Low risk	3.3-4.4
Average risk	4.5-7.1
Moderate risk	7.2-11.0
High risk	>11.0

- Note:**
- Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol
  - NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogenic lipoproteins such as LDL, VLDL, IDL, Lp(a), Chylomicron remnants) along with LDL-cholesterol as co-primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL.
  - Apolipoprotein B is an optional, secondary lipid target for treatment once LDL & Non HDL goals have been achieved
  - Additional testing for Apolipoprotein B, hsCRP, Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement

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 FFM, FDM  
 MD BIOCHEMISTRY

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**PSA (PROSTATE SPECIFIC ANTIGEN) - TOTAL**

**Sample Type : SERUM**

PROSTATE SPECIFIC ANTIGEN	0.804	ng/mL	< 4.0	CLIA
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**INTERPRETATION:**

Raised Total PSA levels may indicate prostate cancer, benign prostate hypertention (BPH), or inflammation of the prostate. Prostate manipulation by biopsy or rigorous physical activity may temporarily elevate PSA levels. The blood test should be done before surgery or six weeks after manipulation. The total PSA may be ordered at regular intervals during treatment of men who have been diagnosed with Prostate cancer and in prostatic cancer cases under observation.

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Syed Hyder Ali



Approved By :

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 FFM, FDM  
 MD BIOCHEMISTRY

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**25 HYDROXY VITAMIN D**

**Sample Type : SERUM**

25 HYDROXY VITAMIN D	<b>24.0</b>	ng/ml	30 - 70	CLIA
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**INTERPRETATION:**

LEVEL	REFERENCE RANGE
Deficiency (serious deficient)	< 10 ng/ml
Insufficiency (Deficient)	10-30 ng/ml
Sufficient (adequate)	30-70 ng/ml
Toxicity	> 100 ng/ml

**DECREASED LEVELS:**

- Deficiency in children causes Rickets and in adults leads to Osteomalacia. It can also lead to Hypocalcemia and Tetany.
- Inadequate exposure to sunlight.
- Dietary deficiency.
- Vitamin D malabsorption.
- Severe Hepatocellular disease.
- Drugs like Anticonvulsants.
- Nephrotic syndrome.

**INCREASED LEVELS:**

- Vitamin D intoxication.

**COMMENTS:**

- Vitamin D (Cholecalciferol) promotes absorption of calcium and phosphorus and mineralization of bones and teeth. Vitamin D status is best determined by measurement of 25 hydroxy vitamin D, as it is the major circulating form and has longer half life (2-3 weeks) than 1, 25 Dihydroxy vitamin D (5-8 hrs).
- The assay measures D3 (Cholecalciferol) metabolites of vitamin D.
- 25 (OH) D is influenced by sunlight, latitude, skin pigmentation, sunscreen use and hepatic function.
- Optimal calcium absorption requires vitamin D 25 (OH) levels exceeding 75 ng/mL.
- It shows seasonal variation, with values being 40-50% lower in winter than in summer.
- Levels vary with age and are increased in pregnancy.
- This is the recommended test for evaluation of vitamin D intoxication.

Verified By :  
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Approved By :

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 MD BIOCHEMISTRY



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**HBA1C**

**Sample Type : WHOLE BLOOD EDTA**

HBA1c RESULT	<b>6.5</b>	%	Normal Glucose tolerance (non-diabetic): <5.7% Pre-diabetic: 5.7-6.4% Diabetic Mellitus: >6.5%	HPLC
ESTIMATED AVG. GLUCOSE	140	mg/dl		

Note:

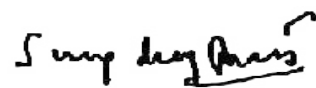
- Since HbA1c reflects long term fluctuations in the blood glucose concentration, a diabetic patient who is recently under good control may still have a high concentration of HbA1c. Converse is true for a diabetic previously under good control but now poorly controlled .
- Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targeting a goal of < 7.0 % may not be appropriate.

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 .

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Approved By :

  
**SURYADEEP PRATAP**  
 Senior Biochemist

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**VITAMIN B12**

**Sample Type : SERUM**

VITAMIN B12	535	pg/mL	120 - 914 pg/mL	CLIA
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**COMMENTS:**

Results may differ between laboratories due to variation in population and test method. Vitamin B12 is implicated in the formation of myelin, and along with Folate is required for DNA synthesis. The most prominent source of B12 for humans is meat while untreated fresh water can also be a source.

Megaloblastic anaemia has been found to be due to B12 deficiency, a major cause being Pernicious anemia due to poor B12 uptake resulting in below normal serum levels. Other conditions related to low B12 levels include iron deficiency anemia, pregnancy, vegetarianism, partial gastrectomy, ileal damage, oral contraceptives, parasitic infestations, pancreatic deficiency, treated epilepsy and advancing age. The correlation of serum B12 levels and Megaloblastic anemia however is not always clear - some patients with high MCV may have normal B12 levels, while some individuals with B12 deficiency may not have megaloblastic anemia. Disorders renal failure, liver diseases and myeloproliferative diseases may have elevated vitamin B12 levels.

**LIMITATIONS:**

For diagnostic purposes, the B12 results should be used in conjunction with other data; e.g.: symptoms results of other testing, clinical impressions, etc.

If the B12 level is inconsistent with clinical evidence, additional testing is suggested to confirm the result.

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**BLOOD UREA NITROGEN (BUN)**

**Sample Type : Serum**

SERUM UREA	23	mg/dL	13 - 43	Urease GLDH
Blood Urea Nitrogen (BUN)	10.8	mg/dl	5 - 25	GLDH-UV

**Increased In:**

Impaired kidney function, Reduced renal blood flow {CHF, Salt and water depletion, (vomiting, diarrhea, diuresis, sweating), Shock}, Any obstruction of urinary tract, Increased protein catabolism, AMI, Stress

**Decreased In:**

Diuresis (e.g. with over hydration), Severe liver damage, Late pregnancy, Infancy, Malnutrition, Diet (e.g., low-protein and high-carbohydrate, IV feedings only), Inherited hyperammonemias (urea is virtually absent in blood)

**Limitations:**

Urea levels increase with age and protein content of the diet.

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**FBS (GLUCOSE FASTING)**
**Sample Type : FLOURIDE PLASMA**

FASTING PLASMA GLUCOSE	98	mg/dl	70 - 100	HEXOKINASE
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**INTERPRETATION:**
**Increased In**

- Diabetes Mellitus
- Stress (e.g., emotion, burns, shock, anesthesia)
- Acute pancreatitis
- Chronic pancreatitis
- Wernicke encephalopathy (vitamin B1 deficiency)
- Effect of drugs (e.g. corticosteroids, estrogens, alcohol, phenytoin, thiazides)

**Decreased In**

- Pancreatic disorders
- Extrapancreatic tumors
- Endocrine disorders
- Malnutrition
- Hypothalamic lesions
- Alcoholism
- Endocrine disorders

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**PPBS (POST PRANDIAL GLUCOSE)**

**Sample Type : FLOURIDE PLASMA**

POST PRANDIAL PLASMA GLUCOSE	109	mg/dl	<140	HEXOKINASE
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**INTERPRETATION:**

**Increased In**

- Diabetes Mellitus
- Stress (e.g., emotion, burns, shock, anesthesia)
- Acute pancreatitis
- Chronic pancreatitis
- Wernicke encephalopathy (vitamin B1 deficiency)
- Effect of drugs (e.g. corticosteroids, estrogens, alcohol, phenytoin, thiazides)

**Decreased In**

- Pancreatic disorders
- Extrapancreatic tumors
- Endocrine disorders
- Malnutrition
- Hypothalamic lesions
- Alcoholism
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**SERUM CREATININE**

**Sample Type : SERUM**

SERUM CREATININE	0.67	mg/dl	0.67 - 1.17	KINETIC-JAFFE
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**Increased In:**

- Diet: ingestion of creatinine (roast meat), Muscle disease: gigantism, acromegaly,
- Impaired kidney function.

**Decreased In:**

- Pregnancy: Normal value is 0.4-0.6 mg/dL. A value >0.8 mg/dL is abnormal and should alert the clinician to further diagnostic evaluation.
- Creatinine secretion is inhibited by certain drugs (e.g., cimetidine, trimethoprim).

Verified By :  
Syed Hyder Ali



Approved By :

*S.K. Deepthi*  
**Dr. S.K. DEEPTHI**  
 FFM, FDM  
 MD BIOCHEMISTRY

<b>Visit ID</b>	: YOD516546	UHID/MR No	: YOD.0000498416
<b>Patient Name</b>	: Mr. RAJANALA SRINIVAS MURTHY	Client Code	: 1409
Age/Gender	: 53 Y 0 M 0 D /M	Barcode No	: 10751711
DOB	:	Registration	: 14/Oct/2023 08:34AM
Ref Doctor	: SELF	Collected	: 14/Oct/2023 08:59AM
Client Name	: MEDI WHEELS	Received	: 14/Oct/2023 09:54AM
Client Add	: F-701, Lado Sarai, Mehravli, N	Reported	: 14/Oct/2023 11:47AM
Hospital Name	:		

**DEPARTMENT OF BIOCHEMISTRY**

Test Name	Result	Unit	Biological Ref. Range	Method
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**GGT (GAMMA GLUTAMYL TRANSPEPTIDASE)**

**Sample Type : SERUM**

GGT	23	U/L	0 - 55.0	KINETIC-IFCC
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**INTERPRETATION:**

GGT functions in the body as a transport molecule, helping to move other molecules around the body. It plays a significant role in helping the liver metabolize drugs and other toxins. Increased GGT include overuse of alcohol, chronic viral hepatitis, lack of blood flow to the liver, liver tumor, cirrhosis, or scarred liver, overuse of certain drugs or other toxins, heart failure, diabetes, pancreatitis, fatty liver disease.

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**DEPARTMENT OF BIOCHEMISTRY**

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**URIC ACID -SERUM**

**Sample Type : SERUM**

SERUM URIC ACID	5.0	mg/dl	3.5 - 7.20	URICASE - PAP
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Uric acid is the final product of purine metabolism in the human organism. Uric acid measurements are used in the diagnosis and treatment of numerous renal and metabolic disorders, including renal failure, gout, leukemia, psoriasis, starvation or other wasting conditions, and of patients receiving cytotoxic drugs.

Verified By :  
Syed Hyder Ali



Approved By :

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 MD BIOCHEMISTRY



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**DEPARTMENT OF BIOCHEMISTRY**

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**BUN/CREATININE RATIO**

<b>Sample Type : SERUM</b>				
Blood Urea Nitrogen (BUN)	23.0	mg/dl	5 - 25	GLDH-UV
SERUM CREATININE	0.67	mg/dl	0.67 - 1.17	KINETIC-JAFFE
BUN/CREATININE RATIO	34.32	Ratio	6 - 25	Calculated

Verified By :  
Syed Hyder Ali



Approved By :

  
**Dr. S.K. DEEPTHI**  
 FFM, FDM  
 MD BIOCHEMISTRY

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**DEPARTMENT OF RADIOLOGY**


**2D ECHO DOPPLER STUDY**

MITRAL VALVE : Normal  
 AORTIC VALVE : Normal  
 TRICUSPID VALVE : Normal  
 PULMONARY VALVE : Normal  
 RIGHT ATRIUM : Normal  
 RIGHT VENTRICLE : Normal  
 LEFT ATRIUM : 3.1 cms  
 LEFT VENTRICLE :  
                   EDD : 4.4 cm    IVS(d) : 1.0 cm    LVEF : 60 %  
                   ESD : 2.9 cm    PW (d) : 1.0 cm    FS : 30 %  
                   No RWMA  
 IAS : Intact  
 IVS : Intact  
 AORTA : 3.3cms  
 PULMONARY ARTERY : Normal  
 PERICARDIUM : Normal  
 IVS/ SVC/ CS : Normal

Verified By :  
Syed Hyder Ali



Approved By :

  
 Dr. D. Madhav Kumar  
 PGDDRM (U.K.)  
 MBBs, PGDC (Dip. Cardiology)  
 Cardiologist

Visit ID	: YOD516546	UHID/MR No	: YOD.0000498416
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**DEPARTMENT OF RADIOLOGY**

PULMONARY VEINS : Normal

INTRA CARDIAC MASSES : No

**DOPPLER STUDY :**

MITRAL FLOW : E 0.8 m/sec, A 0.6 m/sec.

AORTIC FLOW : 1.0m/sec

PULMONARY FLOW : 0.8m/sec


TRICUSPID FLOW : NORMAL

**COLOUR FLOW MAPPING: NO MR / TR****IMPRESSION :**

- \* NO RWMA OF LV
- \* NORMAL LV SYSTOLIC FUNCTION
- \* NORMAL LV FILLING PATTERN
- \* NO MR / TR
- \* NO PE / CLOT / PAH

Verified By :  
Syed Hyder Ali

Approved By :

  
Dr. D. Madhav Kumar  
PGDDRM (U.K.)  
MBBS, PGDCC (Dip. Cardiology)  
Cardiologist

**Visit ID** : YOD516546  
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 Received : 14/Oct/2023 11:26AM  
 Reported : 14/Oct/2023 12:32PM

**DEPARTMENT OF CLINICAL PATHOLOGY**

Test Name	Result	Unit	Biological Ref. Range	Method
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**CUE (COMPLETE URINE EXAMINATION)**

**Sample Type : SPOT URINE**

**PHYSICAL EXAMINATION**

TOTAL VOLUME	20 ML	ml		
COLOUR	PALE YELLOW			
APPEARANCE	CLEAR			
SPECIFIC GRAVITY	1.015		1.003 - 1.035	Bromothymol Blue

**CHEMICAL EXAMINATION**

pH	5.5		4.6 - 8.0	Double Indicator
PROTEIN	NEGATIVE		NEGATIVE	Protein - error of Indicators
GLUCOSE(U)	POSITIVE(++)		NEGATIVE	Glucose Oxidase
UROBILINOGEN	0.1	mg/dl	< 1.0	Ehrlichs Reaction
KETONE BODIES	NEGATIVE		NEGATIVE	Nitroprasside
BILIRUBIN - TOTAL	NEGATIVE		Negative	Azocoupling Reaction
BLOOD	NEGATIVE		NEGATIVE	Tetramethylbenzidine
LEUCOCYTE	NEGATIVE		Negative	Azocoupling reaction
NITRITE	NEGATIVE		NEGATIVE	Diazotization Reaction

**MICROSCOPIC EXAMINATION**

PUS CELLS	2-4	cells/HPF	0-5	
EPITHELIAL CELLS	1-2	/hpf	0 - 15	
RBCs	NIL	Cells/HPF	Nil	
CRYSTALS	NIL	Nil	Nil	
CASTS	NIL	/HPF	Nil	
BUDDING YEAST	NIL		Nil	
BACTERIA	NIL		Nil	
OTHER	NIL			

Verified By :  
 Syed Hyder Ali



Approved By :

*A. Pranitha*

**DR PRANITHA ANAPINDI**  
 MD , CONSULTANT PATHOLOGIST

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**DEPARTMENT OF CLINICAL PATHOLOGY**

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\*\*\* End Of Report \*\*\*


 Verified By :  
 Syed Hyder Ali


Approved By :


**DR PRANITHA ANAPINDI**  
 MD , CONSULTANT PATHOLOGIST