



Aakriti Labs

3 Mahatma Gandhi Marg, Gandhi Nagar Mod
Tonk Road, Jaipur (Raj.) Ph.: 0141-2710661
www.aakritilabs.com
CIN NO.: U85195RJ2004PTC019563



Name : Mr. RAVINDRA PAREWA
Age/Gender: 49 Y/Male
Patient ID : 012209240043
BarcodeNo : 10062187
Referred By : Self

Registration No: 42800
Registered : 24/Sep/2022 10:53AM
Analysed : 25/Sep/2022 10:30AM
Reported : 25/Sep/2022 10:30AM
Panel : Medi Wheel (ArcoFemi
Healthcare Ltd)

DIGITAL X-RAY CHEST PA VIEW


Soft tissue shadow and bony cages are normal.
Trachea is central.
Bilateral lung field and both CP angle are clear.
Domes of diaphragm are normally placed.
Transverse diameter of heart appears with normal limits.

IMPRESSION:- NO OBVIOUS ABNORMALITY DETECTED.

*** End Of Report ***

Page 1 of 1




Dr. Neera Mehta
M.B.B.S.,D.M.R.D.
RMCNO.005807/14853

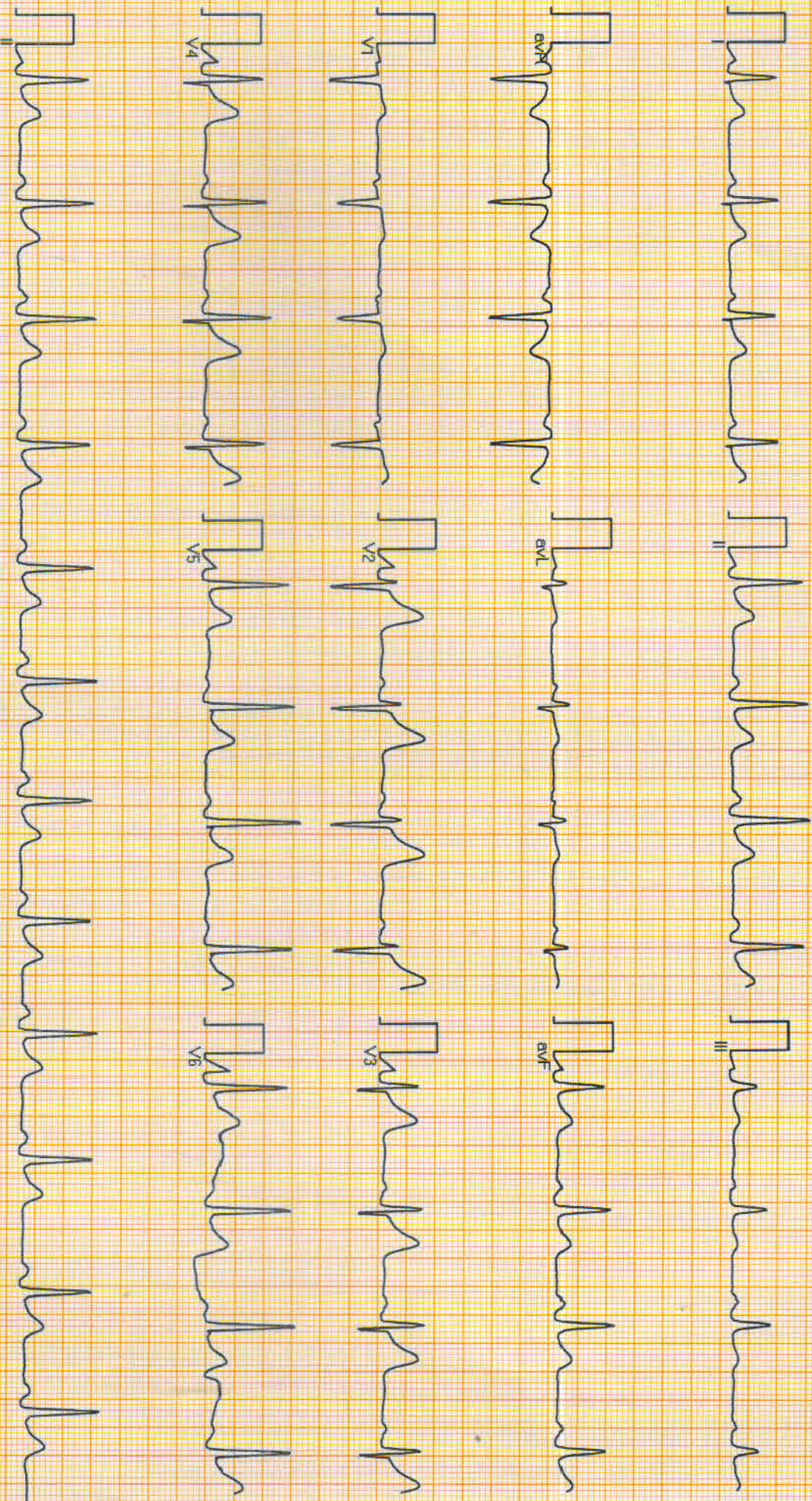
AAKRITI LABS PVT.LTD JAIPUR

19683 / MR. RAVINDRA PAREWA / 49 Yrs / M/ Non Smoker

Heart Rate : 71 bpm / Tested On : 24-Sep-22 11:31:43 / HF 0.05 Hz - LF 100 Hz / Notch 50 Hz / Sn 1.00 Cm/mV / Sw 25 mm/s

/ ReId By: MEDIWHEEL

ECG



Vent Rate : 71 bpm
PR Interval : 172 ms
QRS Duration: 74 ms
QT/QTc Int : 364/383 ms
P-QRS-T axis: 53.00 • 56.00 • 45.00 •
Allergens ECG (Pisces)(P/S215190517)

TRSNL

25

DR. NITIZ GOYAL

M.B.B.S., M.D.

RMC - 0233319

Reported By: DR. NITIZ GOYAL

NAME	MR RAVINDRA PAREWA	AGE	49Y	SEX	MALE
REF BY	MEDIWHEEL	DATE	24/09/2022	REG NO	

ECHOCARDIOGRAM REPORT

WINDOW- POOR/ADEQUATE/GOODVALVE

MITRAL	NORMAL	TRICUSPID	NORMAL
AORTIC	NORMAL	PULMONARY	NORMAL

2D/M-MOD

IVSD mm	13.9	IVSS mm	12.2	AORTA mm	27.1
LVID mm	42.3	LVIS mm	30.8	LA mm	33.2
LVPWD mm	30.8	LVPWS mm	13.9	EF%	60%

CHAMBERS

LA	NORMAL	RA	NORMAL
LV	NORMAL	RV	NORMAL
PERICARDIUM	NORMAL		

DOPPLER STUDY MITRAL

PEAK VELOCITY m/s E/A	0.67/0.75	PEAK GRADIANT MmHg	
MEAN VELOCITY m/s		MEAN GRADIANT MmHg	
MVA cm ² (PLANIMETERY)		MVA cm ² (PHT)	
MR			

AORTIC

PEAK VELOCITY m/s	0.85	PEAK GRADIANT MmHg	
MEAN VELOCITY m/s		MEAN GRADIANT MmHg	
AR			

TRICUSPID

PEAK VELOCITY m/s	0.73	PEAK GRADIANT MmHg	
MEAN VELOCITY m/s		MEAN GRADIANT MmHg	
TR		PASP mmHg	

PULMONARY

PEAK VELOCITY m/s	1.42	PEAK GRADIANT MmHg	
MEAN VELOCITY m/s		MEAN GRADIANT MmHg	
PR		RVEDP mmHg	

IMPRESSION

- NORMAL LV SYSTOLIC & DIASTOLIC FUNCTION
- NO RWMA LVEF 60%
- NORMAL RV FUNCTION
- CONCENTRIC LVH
- NORMAL VALVULAR ECHO
- INTACT IAS / IVS
- NO THROMBUS, NO VEGETATION, NORMAL PERICARDIUM.
- IVC NORMAL

CONCLUSION : CONCENTRIC LVH, FAIR LV FUNCTION.


Cardiologist



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Patient ID : 012209240043
BarcodeNo : 10062187
Referred By : Self

Registration No: 42800
Registered : 24/Sep/2022 10:53AM
Analysed : 24/Sep/2022 01:16PM
Reported : 24/Sep/2022 01:16PM
Panel : Medi Wheel (ArcoFemi
Healthcare Ltd)

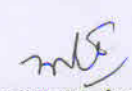
USG: WHOLE ABDOMEN (Male)

- LIVER** : Is normal in size, shape and echogenicity.
The IHBR and hepatic radicals are not dilated.
No evidence of focal echopoor/echorich lesion seen.
Portal vein diameter and common bile duct appear normal.
- GALL** : Is normal in size, shape and echotexture. Walls are smooth and
BLADDER regular with normal thickness. There is no evidence of cholelithiasis.
- PANCREAS** : Is normal in size, shape and echotexture. Pancreatic duct is not dilated.
SPLEEN : Is normal in size, shape and echogenicity. Splenic hilum is not dilated.
- KIDNEYS** : Right Kidney:-Size: 100x41 mm, Left Kidney:-Size: 106x46 mm.
Bilateral Kidneys are normal in size, shape and echotexture,
corticomedullary differentiation is fair and ratio appears normal.
Pelvi calyceal system is normal. No evidence of hydronephrosis/ nephrolithiasis.
- URINARY** : Bladder walls are smooth, regular and normal thickness.
BLADDER : No evidence of mass or stone in bladder lumen.
- PROSTATE** : Is normal in size, shape and echotexture,
measures: 37x29x29 mm, wt: 16 gms.
Its capsule is intact and no evidence of focal lesion.
- SPECIFIC** : No evidence of retroperitoneal mass or free fluid seen in peritoneal cavity.
No evidence of lymphadenopathy or mass lesion in retroperitoneum.
Visualized bowel loop appear normal. Great vessels appear normal.
- IMPRESSION :- NORMAL STUDY.**

*** End Of Report ***

Page 1 of 1




Dr. Neera Mehta
M.B.B.S., D.M.R.D.
RMCNO.005807/14853

DIAGNOSTIC REPORT



CLIENT CODE : C000028570

CLIENT'S NAME AND ADDRESS :

AAKRITI LABS PVT. LTD.
AAKRITI LABS 10, ZARI SHOWROOM BUILDING, NARAYAN SINGH
CIRCLE,
TONK ROAD,
JAIPUR 302004
RAJASTHAN INDIA
9314660100 141-2710661

SRL Ltd
C/o Aakriti Labs Pvt Ltd, 3, Mahatma Gandhi Marg, Gandhi Nagar Mod,
Tonk Road
JAIPUR, 302015
Rajasthan, INDIA

Cert. No. MC-5333

PATIENT NAME : RAVINDRA PAREWA

PATIENT ID : **RAVIM240973251**

ACCESSION NO : **0251VI002835** AGE : 49 Years SEX : Male

ABHA NO :

DRAWN : 24/09/2022 10:53

RECEIVED : 24/09/2022 12:35

REPORTED : 24/09/2022 19:53

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Test Report Status	Final	Results	Biological Reference Interval	Units
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MEDI WHEEL FULL BODY HEALTH CHECK UP ABOVE 40 MALE

BLOOD COUNTS, EDTA WHOLE BLOOD

HEMOGLOBIN	15.8	13.0 - 17.0	g/dL
METHOD : CYANIDE FREE DETERMINATION			
RED BLOOD CELL COUNT	4.51	4.5 - 5.5	mil/ μ L
METHOD : ELECTRICAL IMPEDANCE			
WHITE BLOOD CELL COUNT	6.70	4.0 - 10.0	thou/ μ L
METHOD : ELECTRICAL IMPEDANCE			
PLATELET COUNT	247	150 - 410	thou/ μ L
METHOD : ELECTRONIC IMPEDANCE			

RBC AND PLATELET INDICES

HEMATOCRIT	46.5	40 - 50	%
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR VOL	103.0	High 83 - 101	fL
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR HGB.	35.1	High 27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	34.0	31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER			
MENTZER INDEX	22.8		
RED CELL DISTRIBUTION WIDTH	12.4	11.6 - 14.0	%
METHOD : CALCULATED PARAMETER			
MEAN PLATELET VOLUME	9.3	6.8 - 10.9	fL
METHOD : CALCULATED PARAMETER			

WBC DIFFERENTIAL COUNT - NLR

SEGMENTED NEUTROPHILS	72	40 - 80	%
METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY			
ABSOLUTE NEUTROPHIL COUNT	4.82	2.0 - 7.0	thou/ μ L
METHOD : CALCULATED PARAMETER			
LYMPHOCYTES	21	20 - 40	%
METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY			
ABSOLUTE LYMPHOCYTE COUNT	1.41	1.0 - 3.0	thou/ μ L
METHOD : CALCULATED PARAMETER			
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	3.4		
EOSINOPHILS	03	1 - 6	%



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METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY

ABSOLUTE EOSINOPHIL COUNT 0.20 0.02 - 0.50 thou/ μ L

METHOD : CALCULATED PARAMETER

MONOCYTES 04 2 - 10 %

METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY

ABSOLUTE MONOCYTE COUNT 0.27 0.2 - 1.0 thou/ μ L

METHOD : CALCULATED PARAMETER

BASOPHILS 00 0 - 2 %

METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY

ABSOLUTE BASOPHIL COUNT **0** **Low** 0.02 - 0.10 thou/ μ L

DIFFERENTIAL COUNT PERFORMED ON: EDTA SMEAR

*** ERYTHRO SEDIMENTATION RATE, BLOOD**

SEDIMENTATION RATE (ESR) 02 0 - 14 mm at 1 hr

METHOD : WESTERGREN METHOD

GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD

GLYCOSYLATED HEMOGLOBIN (HBA1C) **7.3** **High** Non-diabetic: < 5.7 %

Pre-diabetics: 5.7 - 6.4

Diabetics: > or = 6.5

ADA Target: 7.0

Action suggested: > 8.0

METHOD : HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

MEAN PLASMA GLUCOSE **162.8** **High** < 116.0 mg/dL

METHOD : CALCULATED PARAMETER

GLUCOSE, FASTING, PLASMA

GLUCOSE, FASTING, PLASMA **144** **High** 74 - 99 mg/dL

METHOD : GLUCOSE OXIDASE

GLUCOSE, POST-PRANDIAL, PLASMA

GLUCOSE, POST-PRANDIAL, PLASMA **198** **High** 70 - 140 mg/dL

METHOD : GLUCOSE OXIDASE

CORONARY RISK PROFILE, SERUM

CHOLESTEROL **202** **High** < 200 Desirable mg/dL

200 - 239 Borderline High

>/= 240 High

METHOD : CHOLESTEROL OXIDASE

TRIGLYCERIDES **182** **High** < 150 Normal mg/dL

150 - 199 Borderline High

200 - 499 High

>/=500 Very High

METHOD : LIPASE/GPO-PAP NO CORRECTION



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HDL CHOLESTEROL 44 < 40 Low mg/dL
>/=60 High

METHOD : DIRECT CLEARANCE METHOD

CHOLESTEROL LDL **122** **High** < 100 Optimal mg/dL
100 - 129
Near optimal/ above optimal
130 - 159
Borderline High
160 - 189 High
>/= 190 Very High

NON HDL CHOLESTEROL **158** **High** Desirable: Less than 130 mg/dL
Above Desirable: 130 - 159
Borderline High: 160 - 189
High: 190 - 219
Very high: > or = 220

METHOD : CALCULATED PARAMETER

CHOL/HDL RATIO **4.6** **High** 3.3 - 4.4
Low Risk
4.5 - 7.0
Average Risk
7.1 - 11.0
Moderate Risk
> 11.0
High Risk

LDL/HDL RATIO 2.8 0.5 - 3.0 Desirable/Low Risk
3.1 - 6.0 Borderline/Moderate Risk
>6.0 High Risk

VERY LOW DENSITY LIPOPROTEIN **36.4** **High** </= 30.0 mg/dL

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL 0.82 0 - 1 mg/dL

METHOD : DIAZO WITH SULPHANILIC ACID

BILIRUBIN, DIRECT 0.23 0.00 - 0.25 mg/dL

METHOD : DIAZO WITH SULPHANILIC ACID

BILIRUBIN, INDIRECT 0.59 0.1 - 1.0 mg/dL

METHOD : CALCULATED PARAMETER

TOTAL PROTEIN 7.7 6.4 - 8.2 g/dL

METHOD : BIURET REACTION, END POINT

ALBUMIN **5.0** **High** 3.8 - 4.4 g/dL

METHOD : BROMOCRESOL GREEN

GLOBULIN 2.7 2.0 - 4.1 g/dL

METHOD : CALCULATED PARAMETER

ALBUMIN/GLOBULIN RATIO 1.9 1.0 - 2.1 RATIO

METHOD : CALCULATED PARAMETER



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PATIENT NAME : RAVINDRA PAREWA

PATIENT ID : RAVIM240973251

ACCESSION NO : 0251VI002835 **AGE : 49 Years** **SEX : Male**

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ASPARTATE AMINOTRANSFERASE (AST/SGOT)	84	High	0 - 37	U/L
METHOD : TRIS BUFFER NO P5P IFCC / SFBC 37° C				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	131	High	0 - 40	U/L
METHOD : TRIS BUFFER NO P5P IFCC / SFBC 37° C				
ALKALINE PHOSPHATASE	69		39 - 117	U/L
METHOD : AMP OPTIMISED TO IFCC 37° C				
GAMMA GLUTAMYL TRANSFERASE (GGT)	227	High	11 - 50	U/L
METHOD : GAMMA GLUTAMYL-3 CARBOXY-4 NITROANILIDE (IFCC) 37° C				
LACTATE DEHYDROGENASE	476	High	230 - 460	U/L
METHOD : GERMAN METHODS 37° C				
SERUM BLOOD UREA NITROGEN				
BLOOD UREA NITROGEN	7		5.0 - 18.0	mg/dL
METHOD : UREASE KINETIC				
CREATININE, SERUM				
CREATININE	1.08		0.8 - 1.3	mg/dL
METHOD : ALKALINE PICRATE NO DEPROTEINIZATION				
BUN/CREAT RATIO				
BUN/CREAT RATIO	6.48			
METHOD : CALCULATED PARAMETER				
URIC ACID, SERUM				
URIC ACID	5.0		3.4 - 7.0	mg/dL
METHOD : URICASE PEROXIDASE WITH ASCORBATE OXIDASE				
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	7.7		6.4 - 8.3	g/dL
METHOD : BIURET REACTION, END POINT				
ALBUMIN, SERUM				
ALBUMIN	5.0	High	3.8 - 4.4	g/dL
METHOD : BROMOCRESOL GREEN				
GLOBULIN				
GLOBULIN	2.7		2.0 - 4.1	g/dL
METHOD : CALCULATED PARAMETER				
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM	138.2		137 - 145	mmol/L
METHOD : ION-SELECTIVE ELECTRODE				
POTASSIUM	4.42		3.6 - 5.0	mmol/L
METHOD : ION-SELECTIVE ELECTRODE				
CHLORIDE	99.9		98 - 107	mmol/L



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METHOD : ION-SELECTIVE ELECTRODE

PHYSICAL EXAMINATION, URINE

COLOR PALE YELLOW

METHOD : GROSS EXAMINATION

APPEARANCE CLEAR

METHOD : GROSS EXAMINATION

SPECIFIC GRAVITY 1.010 1.003 - 1.035

METHOD : IONIC CONCENTRATION METHOD

CHEMICAL EXAMINATION, URINE

PH 7.0 4.7 - 7.5

METHOD : DOUBLE INDICATOR PRINCIPLE

PROTEIN NOT DETECTED NOT DETECTED

METHOD : PROTEIN ERROR OF INDICATORS WITH REFLECTANCE

GLUCOSE NOT DETECTED NOT DETECTED

METHOD : GLUCOSE OXIDASE PEROXIDASE / BENEDICTS

KETONES NOT DETECTED NOT DETECTED

METHOD : SODIUM NITROPRUSSIDE REACTION

BLOOD NOT DETECTED NOT DETECTED

METHOD : PEROXIDASE ANTI PEROXIDASE

BILIRUBIN NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

UROBILINOGEN NORMAL NORMAL

METHOD : EHRlich REACTION REFLECTANCE

NITRITE NOT DETECTED NOT DETECTED

METHOD : NITRATE TO NITRITE CONVERSION METHOD

LEUKOCYTE ESTERASE NOT DETECTED NOT DETECTED

MICROSCOPIC EXAMINATION, URINE

PUS CELL (WBC'S) 1-2 0-5 /HPF

METHOD : DIPSTICK, MICROSCOPY

EPITHELIAL CELLS 1-2 0-5 /HPF

METHOD : MICROSCOPIC EXAMINATION

ERYTHROCYTES (RBC'S) NOT DETECTED NOT DETECTED /HPF

METHOD : MICROSCOPIC EXAMINATION

CASTS NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

CRYSTALS NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION



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BACTERIA METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED	NOT DETECTED		
YEAST	NOT DETECTED	NOT DETECTED		
THYROID PANEL, SERUM				
T3 METHOD : CHEMILUMINESCENCE	138.7	60.0 - 181.0		ng/dL
T4 METHOD : CHEMILUMINESCENCE	8.70	4.5 - 10.9		µg/dL
TSH 3RD GENERATION METHOD : CHEMILUMINESCENCE	1,518	0,550 - 4,780		µIU/mL
STOOL: OVA & PARASITE				
COLOUR METHOD : GROSS EXAMINATION	SAMPLE NOT RECEIVED			
* ABO GROUP & RH TYPE, EDTA WHOLE BLOOD				
ABO GROUP METHOD : TUBE AGGLUTINATION	TYPE O			
RH TYPE METHOD : TUBE AGGLUTINATION	POSITIVE			

Interpretation(s)

BLOOD COUNTS, EDTA WHOLE BLOOD-

The cell morphology is well preserved for 24hrs. However after 24-48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology.

RBC AND PLATELET INDICES-

Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia (>13) from Beta thalassaemia trait (<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait.

WBC DIFFERENTIAL COUNT - NLR-

The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.

(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients ; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504)

This ratio element is a calculated parameter and out of NABL scope.

ERYTHRO SEDIMENTATION RATE, BLOOD-

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. 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 polycythaemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis or sickle cells.

Reference :

1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition
2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin
3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis, 10th Edition"

GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD-

Glycosylated hemoglobin (GHb) has been firmly established as an index of long-term blood glucose concentrations and as a measure of the risk for the development of complications in patients with diabetes mellitus. Formation of GHb is essentially irreversible, and the concentration in the blood depends on both the life span of the red



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PATIENT NAME : RAVINDRA PAREWA

PATIENT ID : RAVIM240973251

ACCESSION NO : 0251VI002835 **AGE : 49 Years** **SEX : Male**

ABHA NO :

DRAWN : 24/09/2022 10:53

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CLIENT PATIENT ID : 012209240043

Test Report Status	Final	Results	Biological Reference Interval	Units
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blood cell (average 120 days) and the blood glucose concentration. Because the rate of formation of GHb is directly proportional to the concentration of glucose in the blood, the GHb concentration represents the integrated values for glucose over the preceding 6-8 weeks. Any condition that alters the life span of the red blood cells has the potential to alter the GHb level. Samples from patients with hemolytic anemias will exhibit decreased glycated hemoglobin values due to the shortened life span of the red cells. This effect will depend upon the severity of the anemia. Samples from patients with polycythemia or post-splenectomy may exhibit increased glycated hemoglobin values due to a somewhat longer life span of the red cells. Glycosylated hemoglobins results from patients with HbSS, HbCC, and HbSC and HbD must be interpreted with caution, given the pathological processes, including anemia, increased red cell turnover, transfusion requirements, that adversely impact HbA1c as a marker of long-term glycemic control. In these conditions, alternative forms of testing such as glycated serum protein (fructosamine) should be considered. "Targets should be individualized; More or less stringent glycemic goals may be appropriate for individual patients. Goals should be individualized based on duration of diabetes, age/life expectancy, comorbid conditions, known CVD or advanced microvascular complications, hypoglycemia unawareness, and individual patient considerations."

References

1. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, edited by Carl A Burtis, Edward R.Ashwood, David E Bruns, 4th Edition, Elsevier publication, 2006, 879-884.
2. Forsham PH. Diabetes Mellitus:A rational plan for management. Postgrad Med 1982, 71,139-154.
3. Mayer TK, Freedman ZR: Protein glycosylation in Diabetes Mellitus: A review of laboratory measurements and their clinical utility. Clin Chim Acta 1983, 127, 147-184.

GLUCOSE, FASTING, PLASMA-
ADA 2021 guidelines for adults, after 8 hrs fasting is as follows:

Pre-diabetics: 100 - 125 mg/dL

Diabetic: > or = 126 mg/dL

GLUCOSE, POST-PRANDIAL, PLASMA-ADA Guidelines for 2hr post prandial glucose levels is only after ingestion of 75grams of glucose in 300 ml water,over a period of 5 minutes.

LIVER FUNCTION PROFILE, SERUM-
LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.

ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget's disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilson's disease.GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.Serum total protein,also known as total protein,is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin,Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstrom's disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome,Protein-losing enteropathy etc.Human serum albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein.Low blood albumin levels (hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc

SERUM BLOOD UREA NITROGEN-

Causes of Increased levels

Pre renal

- High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal

• Renal Failure

Post Renal

- Malignancy, Nephrolithiasis, Prostatism

Causes of decreased levels

- Liver disease

• SIADH.

CREATININE, SERUM-

Higher than normal level may be due to:

- Blockage in the urinary tract

- Kidney problems, such as kidney damage or failure, infection, or reduced blood flow

- Loss of body fluid (dehydration)



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Patient Ref. No. 251000000158418



Cert. No. MC-5333



CLIENT CODE : C000028570

CLIENT'S NAME AND ADDRESS :

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- Muscle problems, such as breakdown of muscle fibers
- Problems during pregnancy, such as seizures (eclampsia), or high blood pressure caused by pregnancy (preeclampsia)

Lower than normal level may be due to:

- Myasthenia Gravis
- Muscular dystrophy

URIC ACID, SERUM-

Causes of Increased levels

Dietary

- High Protein Intake.
- Prolonged Fasting,
- Rapid weight loss.

Gout

Lesch nyhan syndrome.
Type 2 DM.

Metabolic syndrome.

Causes of decreased levels

- Low Zinc Intake
- OCP's
- Multiple Sclerosis

Nutritional tips to manage increased Uric acid levels

- Drink plenty of fluids
- Limit animal proteins
- High Fibre foods
- Vit C Intake
- Antioxidant rich foods

TOTAL PROTEIN, SERUM-

Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum..Protein in the plasma is made up of albumin and globulin

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease

Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

ALBUMIN, SERUM-

Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc.

ELECTROLYTES (NA/K/CL), SERUM-

Sodium levels are Increased in dehydration, cushing's syndrome, aldosteronism & decreased in Addison's disease, hypopituitarism, liver disease. Hypokalemia (low K) is common in vomiting, diarrhea, alcoholism, folic acid deficiency and primary aldosteronism. Hyperkalemia may be seen in end-stage renal failure, hemolysis, trauma, Addison's disease, metabolic acidosis, acute starvation, dehydration, and with rapid K infusion. Chloride is increased in dehydration, renal tubular acidosis (hyperchloremia metabolic acidosis), acute renal failure, metabolic acidosis associated with prolonged diarrhea and loss of sodium bicarbonate, diabetes insipidus, adrenocortical hyperfunction, salicylate intoxication and with excessive infusion of isotonic saline or extremely high dietary intake of salt. Chloride is decreased in overhydration, chronic respiratory acidosis, salt-losing nephritis, metabolic alkalosis, congestive heart failure, Addisonian crisis, certain types of metabolic acidosis, persistent gastric secretion and prolonged vomiting,

MICROSCOPIC EXAMINATION, URINE-

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

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.

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 haemoglobin, 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. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.

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

THYROID PANEL, SERUM-



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CLIENT CODE : C00028570

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Triiodothyronine T3, is a thyroid hormone. It affects almost every physiological process in the body, including growth, development, metabolism, body temperature, and heart rate. Production of T3 and its prohormone thyroxine (T4) is activated by thyroid-stimulating hormone (TSH), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSH.

Thyroxine T4, Thyroxine's principal function is to stimulate the metabolism of all cells and tissues in the body. Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism. Most of the thyroid hormone in blood is bound to transport proteins. Only a very small fraction of the circulating hormone is free and biologically active.

In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.

Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3

Levels in	TOTAL T4 (µg/dL)	TSH3G (µIU/mL)	TOTAL T3 (ng/dL)
Pregnancy	6.6 - 12.4	0.1 - 2.5	81 - 190
1st Trimester	6.6 - 15.5	0.2 - 3.0	100 - 260
2nd Trimester	6.6 - 15.5	0.3 - 3.0	100 - 260
3rd Trimester			

Below mentioned are the guidelines for age related reference ranges for T3 and T4.

T3 (ng/dL)	T4 (µg/dL)
New Born: 75 - 260	1-3 day: 8.2 - 19.9
	1 Week: 6.0 - 15.9

NOTE: TSH concentrations in apparently normal euthyroid subjects are known to be highly skewed, with a strong tailed distribution towards higher TSH values. This is well documented in the pediatric population including the infant age group.

Kindly note: Method specific reference ranges are appearing on the report under biological reference range.

Reference:

- Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
- Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
- Behrman R.E. Kliegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17th Edition

STOOL: OVA & PARASITE-

Acute infective diarrhoea and gastroenteritis (diarrhoea with vomiting) are major causes of ill health and premature death in developing countries. Loss of water and electrolytes from the body can lead to severe dehydration which if untreated, can be rapidly fatal in young children, especially that are malnourished, hypoglycaemic, and generally in poor health.

Laboratory diagnosis of parasitic infection is mainly based on microscopic examination and the gross examination of the stool specimen. Depending on the nature of the parasite, the microscopic observations include the identification of cysts, ova, trophozoites, larvae or portions of adult structure. The two classes of parasites that cause human infection are the Protozoa and Helminths. The protozoan infections include amoebiasis mainly caused by Entamoeba histolytica and giardiasis caused by Giardia lamblia. The common helminthic parasites are Trichuris trichiura, Ascaris lumbricoides, Strongyloides stercoralis, Taenia sp. etc

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD-

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.

****End Of Report****

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Dr. Abhishek Sharma
Consultant Microbiologist


Dr. Akansha Jain
Consultant Pathologist



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