



Aakriti Labs

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



Name : Mr. PRATEEK BHATT
Age/Gender: 30 Y/Male
Patient ID : 012210020002
BarcodeNo : 10063079
Referred By : Self

Registration No: 43428
Registered : 02/Oct/2022 08:14AM
Analysed : 02/Oct/2022 12:46PM
Reported : 02/Oct/2022 12:46PM
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.

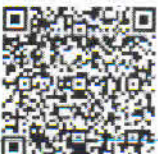
Domes of diaphragm are normally placed.

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



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PATIENT NAME: MR PRATEEK BHATT	AGE & SEX: 30 Y/M
REF. by: MEDIWHEEL	DATE: 02.10.2022

USG: WHOLE ABDOMEN (Male)

- LIVER** : Is normal in size, shape and echogenecity.
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 BLADDER** : Is normal in size, shape and echotexture. Walls are smooth and 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 echogenecity. Splenic hilum is not dilated.
- KIDNEYS** : Right Kidney:-Size: 92x34 mm, Left Kidney:-Size: 94x47 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** : Bladder walls are smooth, regular and normal thickness.
No evidence of mass or stone in bladder lumen.
- PROSTATE**: Is normal in size, shape and echotexture,
measures: 31x20x20 mm, wt: 7 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.

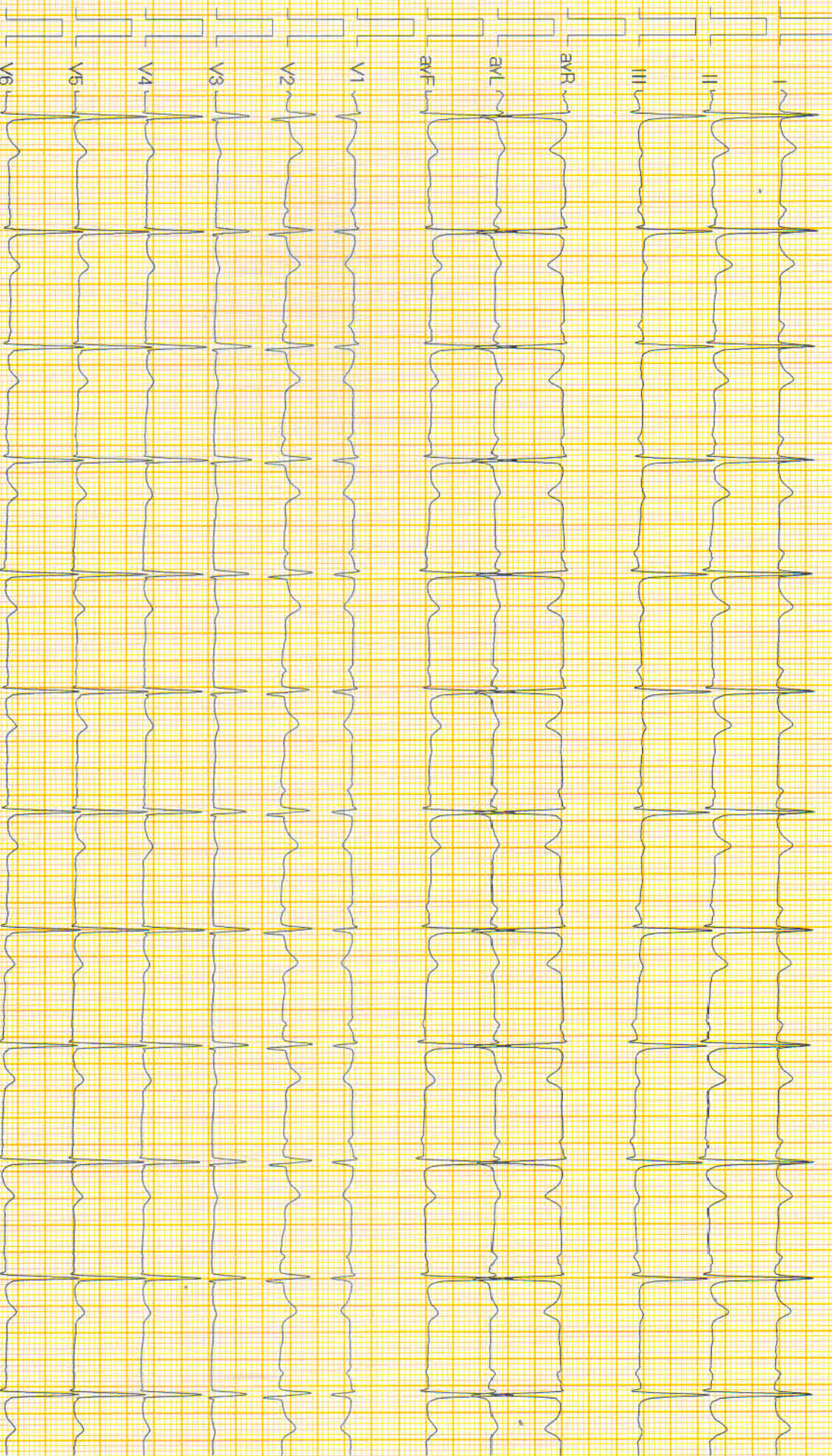
IMPRESSION:- NORMAL STUDY


DR NEERA MEHTA
MBBS, DMRD
RMCNO.005807/14853



MR. PRATEEK BHATT 130 Yrs./M/10 Cms/10 Kg/HR 70

Date: 02/10/2022 BP: 135/80 mmHg BLOCn Notch On HF 0.05 Hz LF 100 Hz



TWNC

DR. NITIZ GOYAL
MBBS, MD
RMC - 0233119



PRATEEK BHATT / 30 Yrs / M / 0 Cms / 0 Kg
 Date: 02/10/2022

Stage	Time	Duration	Speed(mph)	Elevation	MEIS	Rate	%THR	BP	RPP	PVC	Comments
Supine	00:10	0:10	01.1	00.0	01.0	070	37%	135/80	094	00	
Standing	00:22	0:12	00.0	00.0	01.0	084	44%	135/80	113	00	
HV	00:41	0:19	00.0	00.0	01.0	086	45%	135/80	116	00	
Warm Up	00:52	0:11	00.0	00.0	01.0	084	44%	135/80	113	00	
ExStart	00:57	0:05	01.7	10.0	01.1	089	47%	135/80	120	00	
BRUCE Stage 1	03:57	3:00	01.7	10.0	04.7	120	63%	135/80	162	00	
BRUCE Stage 2	06:57	3:00	02.5	12.0	07.1	139	73%	135/80	187	00	
PeakEx	09:06	2:09	03.4	14.0	09.3	165	87%	135/80	222	00	
Recovery	10:06	1:00	00.0	00.0	01.2	128	67%	135/80	172	00	
Recovery	11:06	2:00	00.0	00.0	01.0	097	51%	160/90	155	00	
Recovery	12:06	3:00	00.0	00.0	01.0	100	53%	130/80	130	00	

REPORT :

FINAL IMPRESSION - TEST IS NEGATIVE FOR INDUCIBLE ISCHAEMIA

DR. NITIZ GOYAL
 M.B.B.S., M.D.
 RMC - 0233319
 Doctor : DR.NITIZ GOYAL



Patient Ref. No. 25100000159842



Cert. No. MC-5333

CLIENT CODE : C000049066

CLIENT'S NAME AND ADDRESS :

SRL JAIPUR WELLNESS CORPORATE WALK IN (CASH)
AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

JAIPUR 302017
RAJASTHAN INDIA
9314660100

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

PATIENT NAME : PRATEEK BHATT

PATIENT ID : PRATM021092251

ACCESSION NO : 0251VJ000120 AGE : 30 Years SEX : Male

ABHA NO :

DRAWN : 02/10/2022 08:14:00

RECEIVED : 02/10/2022 11:57:39

REPORTED : 03/10/2022 16:47:39

REFERRING DOCTOR : SELF

CLIENT PATIENT ID : 012210020002

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

BLOOD COUNTS, EDTA WHOLE BLOOD

HEMOGLOBIN	15.7	13.0 - 17.0	g/dL
METHOD : CYANIDE FREE DETERMINATION			
RED BLOOD CELL COUNT	5.61	High 4.5 - 5.5	mil/ μ L
METHOD : ELECTRICAL IMPEDANCE			
WHITE BLOOD CELL COUNT	8.70	4.0 - 10.0	thou/ μ L
METHOD : ELECTRICAL IMPEDANCE			
PLATELET COUNT	362	150 - 410	thou/ μ L
METHOD : ELECTRONIC IMPEDANCE			

RBC AND PLATELET INDICES

HEMATOCRIT	45.8	40 - 50	%
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR VOL	82.0	Low 83 - 101	fL
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR HGB.	27.9	27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	34.2	31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER			
MENTZER INDEX	14.6		
RED CELL DISTRIBUTION WIDTH	12.3	11.6 - 14.0	%
METHOD : CALCULATED PARAMETER			
MEAN PLATELET VOLUME	7.2	6.8 - 10.9	fL
METHOD : CALCULATED PARAMETER			

WBC DIFFERENTIAL COUNT - NLR

SEGMENTED NEUTROPHILS	58	40 - 80	%
METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY			
ABSOLUTE NEUTROPHIL COUNT	5.05	2.0 - 7.0	thou/ μ L
METHOD : CALCULATED PARAMETER			
LYMPHOCYTES	37	20 - 40	%
METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY			
ABSOLUTE LYMPHOCYTE COUNT	3.22	High 1.0 - 3.0	thou/ μ L
METHOD : CALCULATED PARAMETER			
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.7		
EOSINOPHILS	02	1 - 6	%



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METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY

ABSOLUTE EOSINOPHIL COUNT 0,17 0,02 - 0.50 thou/ μ L

METHOD : CALCULATED PARAMETER

MONOCYTES 03 2 - 10 %

METHOD : IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY

ABSOLUTE MONOCYTE COUNT 0,26 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) 07 0 - 14 mm at 1 hr

METHOD : WESTERGREIN METHOD

GLUCOSE, FASTING, PLASMA

GLUCOSE, FASTING, PLASMA 101 High 74 - 99 mg/dL

METHOD : GLUCOSE OXIDASE

GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD

GLYCOSYLATED HEMOGLOBIN (HBA1C) 5.5 %

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 111.2 < 116.0 mg/dL

METHOD : CALCULATED PARAMETER

GLUCOSE, POST-PRANDIAL, PLASMA

GLUCOSE, POST-PRANDIAL, PLASMA 122 70 - 140 mg/dL

METHOD : GLUCOSE OXIDASE

CORONARY RISK PROFILE, SERUM

CHOLESTEROL 169 < 200 Desirable
200 - 239 Borderline High
>/= 240 High mg/dL

METHOD : CHOLESTEROL OXIDASE

TRIGLYCERIDES 142 < 150 Normal
150 - 199 Borderline High
200 - 499 High
>/=500 Very High mg/dL



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METHOD : LIPASE/GPO-PAP NO CORRECTION

HDL CHOLESTEROL	31	Low	< 40 Low >/=60 High	mg/dL
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METHOD : DIRECT CLEARANCE METHOD

CHOLESTEROL LDL	110	High	< 100 Optimal 100 - 129 Near optimal/ above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
NON HDL CHOLESTEROL	138	High	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL

METHOD : CALCULATED PARAMETER

CHOL/HDL RATIO	5.5	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	3.6	High	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	

VERY LOW DENSITY LIPOPROTEIN	28.4		</= 30.0	mg/dL
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LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL	0.68		0 - 1	mg/dL
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METHOD : DIAZO WITH SULPHANILIC ACID

BILIRUBIN, DIRECT	0.21		0.00 - 0.25	mg/dL
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METHOD : DIAZO WITH SULPHANILIC ACID

BILIRUBIN, INDIRECT	0.47		0.1 - 1.0	mg/dL
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METHOD : CALCULATED PARAMETER

TOTAL PROTEIN	8.3	High	6.4 - 8.2	g/dL
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METHOD : BIURET REACTION, END POINT

ALBUMIN	4.6	High	3.8 - 4.4	g/dL
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METHOD : BROMOCRESOL GREEN

GLOBULIN	3.7		2.0 - 4.1	g/dL
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METHOD : CALCULATED PARAMETER



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ALBUMIN/GLOBULIN RATIO	1.2	1.0 - 2.1	RATIO
METHOD : CALCULATED PARAMETER			
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	35	0 - 37	U/L
METHOD : TRIS BUFFER NO P5P IFCC / SFBC 37° C			
ALANINE AMINOTRANSFERASE (ALT/SGPT)	48	High 0 - 40	U/L
METHOD : TRIS BUFFER NO P5P IFCC / SFBC 37° C			
ALKALINE PHOSPHATASE	50	39 - 117	U/L
METHOD : AMP OPTIMISED TO IFCC 37° C			
GAMMA GLUTAMYL TRANSFERASE (GGT)	52	High 11 - 50	U/L
METHOD : GAMMA GLUTAMYL-3 CARBOXY-4 NITROANILIDE (IFCC) 37° C			
LACTATE DEHYDROGENASE	383	230 - 460	U/L
METHOD : GERMAN METHODS 37° C			
SERUM BLOOD UREA NITROGEN			
BLOOD UREA NITROGEN	8	5.0 - 18.0	mg/dL
METHOD : UREASE KINETIC			
CREATININE, SERUM			
CREATININE	1.10	0.8 - 1.3	mg/dL
METHOD : ALKALINE PICRATE NO DEPROTEINIZATION			
BUN/CREAT RATIO			
BUN/CREAT RATIO	7.27		
METHOD : CALCULATED PARAMETER			
URIC ACID, SERUM			
URIC ACID	5.7	3.4 - 7.0	mg/dL
METHOD : URICASE PEROXIDASE WITH ASCORBATE OXIDASE			
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN	8.3	6.4 - 8.3	g/dL
METHOD : BIURET REACTION, END POINT			
ALBUMIN, SERUM			
ALBUMIN	4.6	High 3.8 - 4.4	g/dL
METHOD : BROMOCRESOL GREEN			
GLOBULIN			
GLOBULIN	3.7	2.0 - 4.1	g/dL
METHOD : CALCULATED PARAMETER			
ELECTROLYTES (NA/K/CL), SERUM			
SODIUM	137.9	137 - 145	mmol/L



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METHOD : ION-SELECTIVE ELECTRODE

POTASSIUM 3.34 Low 3,6 - 5,0 mmol/L

METHOD : ION-SELECTIVE ELECTRODE

CHLORIDE 103.1 98 - 107 mmol/L

METHOD : ION-SELECTIVE ELECTRODE

PHYSICAL EXAMINATION, URINE

COLOR PALE YELLOW

METHOD : GROSS EXAMINATION

APPEARANCE CLEAR

METHOD : GROSS EXAMINATION

SPECIFIC GRAVITY <=1.005 1.003 - 1.035

METHOD : IONIC CONCENTRATION METHOD

CHEMICAL EXAMINATION, URINE

PH 6.0 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 0-1 0-5 /HPF

METHOD : MICROSCOPIC EXAMINATION

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



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METHOD : MICROSCOPIC EXAMINATION

CASTS NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

CRYSTALS NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

BACTERIA NOT DETECTED NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

YEAST NOT DETECTED NOT DETECTED

THYROID PANEL, SERUM

T3 141.6 60.0 - 181.0 ng/dL

METHOD : CHEMILUMINESCENCE

T4 8.80 4.5 - 10.9 µg/dL

METHOD : CHEMILUMINESCENCE

TSH 3RD GENERATION 4.057 0.550 - 4.780 µIU/mL

METHOD : CHEMILUMINESCENCE

STOOL: OVA & PARASITE

COLOUR SAMPLE NOT RECEIVED

METHOD : GROSS EXAMINATION

* ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE A

METHOD : TUBE AGGLUTINATION

RH TYPE POSITIVE

METHOD : TUBE AGGLUTINATION

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



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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"

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

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 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, 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



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Patient Ref. No. 25100000159842



Cert. No. MC-5333

CLIENT CODE : C000049066

CLIENT'S NAME AND ADDRESS :

SRL JAIPUR WELLNESS CORPORATE WALK IN (CASH)
AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

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Rajasthan, INDIA

PATIENT NAME : PRATEEK BHATT

PATIENT ID : PRATM021092251

ACCESSION NO : 0251VJ000120 AGE : 30 Years SEX : Male

ABHA NO :

DRAWN : 02/10/2022 08:14:00

RECEIVED : 02/10/2022 11:57:39

REPORTED : 03/10/2022 16:47:39

REFERRING DOCTOR : SELF

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Test Report Status	Final	Results	Biological Reference Interval	Units
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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)
- 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.



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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-

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

Table with 4 columns: Levels in, TOTAL T4 (µg/dL), TSH3G (µIU/mL), TOTAL T3 (ng/dL). Rows for Pregnancy, 1st Trimester, 2nd Trimester, 3rd Trimester.

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

Table with 2 columns: T3 (ng/dL), T4 (µg/dL). Rows for 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:

- 1. Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
2. Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
3. Behrman R.E. Kilegman 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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