

Client**Jeevan Jyoti HLM**

Pathkind Diagnostics Pvt. Ltd.

162, Lowther Road, Bai Ka Bagh, Prayagraj

Processed By**Pathkind Diagnostics Pvt. Ltd.**

162, Lowther Road, Bai Ka Bagh, Prayagraj

Uttar Pradesh-211003

Name : Mrs. TWINKLE REG-313500 OPD	Billing Date	: 26/11/2022 09:24:17
Age : 29 Yrs	Sample Collected on	: 26/11/2022 09:36:06
Sex : Female	Sample Received on	: 26/11/2022 09:59:17
P. ID No. : P1212100006426	Report Released on	: 26/11/2022 12:23:19
Accession No : 121222026447	Barcode No.	: 1201068145
Referring Doctor : SELF	Ref no.	:
Referred By :		

Report Status - Preliminary Report

Test Name	Result	Biological Ref. Interval	Unit
HAEMATOLOGY			
Complete Blood Count (CBC)			
Haemoglobin (Hb) Sample: Whole Blood EDTA Method: Photometric measurement	10.9 L	12.0 - 15.0	gm/dL
Total WBC Count / TLC Sample: Whole Blood EDTA Method: Impedance	11.0 H	4.0 - 10.0	thou/ μ L
RBC Count Sample: Whole Blood EDTA Method: Impedance	5.6 H	3.8 - 4.8	million/ μ L
PCV / Hematocrit Sample: Whole Blood EDTA Method: Impedance	35.9 L	36.0 - 46.0	%
MCV Sample: Whole Blood EDTA Method: Calculated	64.7 L	83.0 - 101.0	fL
MCH Sample: Whole Blood EDTA Method: Calculated	19.7 L	27.0 - 32.0	pg
MCHC Sample: Whole Blood EDTA Method: Calculated	30.4 L	31.5 - 34.5	g/dL
RDW (Red Cell Distribution Width) Sample: Whole Blood EDTA Method: Calculated	13.3	11.9 - 15.5	%
DLC (Differential Leucocyte Count) Method: Flowcytometry/Microscopy			
Neutrophils Sample: Whole Blood EDTA Method: VCS Technology & Microscopy	62	40 - 80	%
Lymphocytes Sample: Whole Blood EDTA Method: VCS Technology & Microscopy	36	20 - 40	%

121222026447 Mrs. TWINKLE REG-313500 C

Page No: 1 of 17



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Eosinophils <i>Sample: Whole Blood EDTA</i> <i>Method: VCS Technology & Microscopy</i>	01	01 - 06	%
Monocytes <i>Sample: Whole Blood EDTA</i> <i>Method: VCS Technology & Microscopy</i>	01 L	02 - 10	%
Basophils <i>Sample: Whole Blood EDTA</i> <i>Method: VCS Technology & Microscopy</i>	00	00 - 02	%
Absolute Neutrophil Count <i>Sample: Whole Blood EDTA</i>	6820	2000 - 7000	/ μ L
Absolute Lymphocyte Count <i>Sample: Whole Blood EDTA</i>	3960 H	1000 - 3000	/ μ L
Absolute Eosinophil Count <i>Sample: Whole Blood EDTA</i>	110	20 - 500	/ μ L
Absolute Monocyte Count <i>Sample: Whole Blood EDTA</i>	110 L	200 - 1000	/ μ L
Absolute Basophil Count <i>Sample: Whole Blood EDTA</i>	0 L	20 - 100	/ μ L
DLC Performed By <i>Sample: Whole Blood EDTA</i>	EDTA Smear		
Platelet Count <i>Sample: Whole Blood EDTA</i> <i>Method: Impedance</i>	180	150 - 410	thou/ μ L
MPV (Mean Platelet Volume) <i>Sample: Whole Blood EDTA</i> <i>Method: Calculated</i>	9.6	6.8 - 10.9	fL
Erythrocyte Sedimentation Rate (ESR) <i>Sample: Whole Blood EDTA</i> <i>Method: Modified Westergren Method</i>	20 H	<12	mm 1st Hour

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Test Name	Result	Biological Ref. Interval	Unit
Blood Group			
Blood Grouping <i>Sample: Whole Blood EDTA</i>	"O"		
Rh (D) Typing <i>Sample: Whole Blood EDTA</i>	POSITIVE		
BIOCHEMISTRY			
Fasting Plasma Glucose <i>Sample: Fluoride Plasma - F</i>	97	74 - 106	mg/dl
Thyroid Profile Total			
Total T3 (Triiodothyronine) <i>Sample: Serum Method: ECLIA</i>	1.40	0.80 - 2.00	ng/mL
Total T4 (Thyroxine) <i>Sample: Serum Method: ECLIA</i>	8.90	5.10 - 14.10	µg/dL
TSH 3rd Generation <i>Sample: Serum Method: ECLIA</i>	4.800 H	0.270 - 4.200	µIU/mL

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CLINICAL PATHOLOGY

Stool Routine & Microscopic Examination

Physical Examination

Colour <i>Sample: Stool</i>	Yellowish	Yellowish Brown
Consistency <i>Sample: Stool</i>	Semi Solid	Semi Solid
Mucus <i>Sample: Stool</i>	Absent	Absent
Blood <i>Sample: Stool</i>	Absent	Absent
Odour <i>Sample: Stool</i>	Fecal	Fecal

Microscopic Examination

Cyst <i>Sample: Stool</i>	Not Detected	Not Detected
Trophozoites <i>Sample: Stool</i>	Not Detected	Not Detected
Charcot - Leyden Crystals <i>Sample: Stool</i>	Not Detected	Not Detected
Ova <i>Sample: Stool</i>	Not Detected	Not Detected
Adult Parasite <i>Sample: Stool</i>	Not Detected	Not Detected

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RBC <i>Sample: Stool</i>	Not Detected	0 - 0	/hpf
Pus Cells <i>Sample: Stool</i>	2 - 3	0 - 5	/HPF

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BIOCHEMISTRY

Liver Function Test (LFT)

Bilirubin Total

Sample: Serum

Method: Spectrophotometry

0.5

<1.1

mg/dL

Bilirubin Direct

Sample: Serum

Method: Spectrophotometry

0.2

<0.2

mg/dL

Serum Bilirubin (Indirect)

Sample: Serum

Method: Calculated

0.30

<0.90

mg/dL

SGOT / AST

Sample: Serum

Method: Spectrophotometry

49 H

<31

U/L

SGPT / ALT

Sample: Serum

Method: Spectrophotometry

27

<33

U/L

AST / ALT Ratio

Sample: Serum

Method: Calculated

1.81

Alkaline Phosphatase (ALP)

Sample: Serum

Method: Spectrophotometry

90

<98

U/L

Total Protein

Sample: Serum

Method: Spectrophotometry

8.4 H

6.4 - 8.3

g/dL

Albumin

Sample: Serum

Method: Spectrophotometry

4.8

4.0 - 4.9

g/dL

Globulin

Sample: Serum

Method: Calculated

3.6

1.9 - 3.7

g/dL

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Albumin/Globulin (A/G) Ratio <i>Sample: Serum</i> <i>Method: Calculated</i>	1.3	1.0 - 2.1	g/dL
Lipid Profile			
Total Cholesterol <i>Sample: Serum</i> <i>Method: Spectrophotometry</i>	151	No risk : < 200 Moderate risk : 200-239 High risk : =240	mg/dL
Triglycerides <i>Sample: Serum</i> <i>Method: Spectrophotometry</i>	117	Desirable : < 150 Borderline High : 150 - 199 High : 200 - 499 Very High : >= 500	mg/dL
LDL Cholesterol (Calculated) <i>Sample: Serum</i> <i>Method: Calculated</i>	93	Optimal : <100 Near Optimal : 100 - 129 Borderline High : 130 - 160 High : 161 - 189 Very High : >=190	mg/dL
HDL Cholesterol <i>Sample: Serum</i> <i>Method: Spectrophotometry</i>	35 L	Low : < 40 Optimal : 40 - 60 High : > 60	mg/dl
Non HDL Cholesterol <i>Sample: Serum</i>	116	< 130	mg/dL
VLDL Cholesterol <i>Sample: Serum</i> <i>Method: Calculated</i>	23.4	Desirable 10 - 35	mg/dL
Total Cholesterol / HDL Ratio <i>Sample: Serum</i> <i>Method: Calculated</i>	4.31	Low Risk : 3.3 - 4.4 Average Risk : 4.5 - 7.0 Moderate Risk : 7.1 - 11.0 High Risk : > 11.0	
LDL / HDL Ratio <i>Sample: Serum</i> <i>Method: Calculated</i>	2.7	0.5 - 3.0	
		Low Risk : 0.5 - 3.0	

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Kidney Profile (KFT)		Moderate Risk : 3.1 - 6.0 High Risk : > 6.0	
Blood Urea			
Blood Urea Nitrogen (BUN)	10.62	7.00 - 18.69	mg/dL
Sample: Serum Method: Spectrophotometry-Urease / GLDH			
Urea	22.73	17.00 - 43.00	mg/dL
Sample: Serum Method: Spectrophotometry			
Creatinine	0.60	0.50 - 1.10	mg/dL
Sample: Serum Method: Spectrophotometry			
BUN Creatinine Ratio	18	10 - 20	
Sample: Serum Method: Calculated			
Calcium	9.9	8.6 - 10.0	mg/dL
Sample: Serum Method: Spectrophotometry			
Uric Acid	6.4 H	2.4 - 5.7	mg/dL
Sample: Serum Method: Spectrophotometry			
Total Protein	8.4 H	6.4 - 8.3	g/dL
Sample: Serum Method: Spectrophotometry			
Albumin	4.8	4.0 - 4.9	g/dL
Sample: Serum Method: Spectrophotometry			
Globulin	3.6	1.9 - 3.7	g/dL
Sample: Serum Method: Calculated			
Albumin/Globulin (A/G) Ratio	1.3	1.0 - 2.1	g/dL
Sample: Serum Method: Calculated			

121222026447 Mrs. TWINKLE REG-313500 C

Page No: 8 of 17



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CLINICAL PATHOLOGY

Urine Routine & Microscopic Examination

Method: Reflectance Photometry

Physical Examination

Colour

Sample: Urine

Method: Physical Examination

yellow

Pale Yellow

Appearance

Sample: Urine

Method: Physical Examination

Clear

Clear

Specific Gravity

Sample: Urine

Method: pKa change of pretreated polyelectrolytes

1.015

1.003 - 1.035

pH

Sample: Urine

Method: Double indicator principle

5.0

4.7 - 7.5

Chemical Examination

Glucose

Sample: Urine

Method: Glucose oxidase/peroxidase

Not Detected

Not Detected

Protein

Sample: Urine

Method: Protein-error-of-indicators principle

Not Detected

Not Detected

Ketones

Sample: Urine

Method: Sodium nitroprusside reaction

Not Detected

Not Detected

Blood

Sample: Urine

Method: Peroxidase

Not Detected

Not Detected

Bilirubin

Sample: Urine

Method: Diazo reaction

Not Detected

Not Detected

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Test Name	Result	Biological Ref. Interval	Unit
Urobilinogen <i>Sample: Urine</i> <i>Method: Ehrlich's reaction</i>	Normal	Normal	
Nitrite <i>Sample: Urine</i> <i>Method: Nitrite Test</i>	Not Detected	Not Detected	
Microscopic Examination <i>Method: Microscopy</i>			
Pus Cells <i>Sample: Urine</i>	15 -20	0 - 5	/hpf
RBC <i>Sample: Urine</i>	Not Detected	Not Detected	/hpf
Epithelial Cells <i>Sample: Urine</i>	3 - 5	0 - 5	/hpf
Casts <i>Sample: Urine</i>	Not Detected	Not Detected	/hpf
Crystals <i>Sample: Urine</i>	Not Detected	Not Detected	/hpf
Bacteria <i>Sample: Urine</i>	Not Detected	Not Detected	/hpf
Remarks <i>Sample: Urine</i>			

Remarks : Microscopic Examination is performed on urine sediment**BIOCHEMISTRY****Electrolytes (Na/K/Cl)**

Sodium <i>Sample: Serum</i> <i>Method: ISE</i>	141	136 - 145	mmol/L
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Potassium <i>Sample: Serum</i> <i>Method: ISE</i>	4.3	3.5 - 5.1	mmol/L
Chloride <i>Sample: Serum</i> <i>Method: ISE</i>	108 H	97 - 107	mmol/L

Complete Blood Count (CBC)Clinical Significance :

CBC comprises of estimation of the cellular components of blood including RBCs, WBCs and Platelets. Mean corpuscular volume (MCV) is a measure of the size of the average RBC, MCH is a measure of the hemoglobin content of the average RBC and MCHC is the hemoglobin concentration per RBC. The red cell distribution width (RDW) is a measure of the degree of variation in RBC size (anisocytosis) and is helpful in distinguishing between some anemias. CBC examination is used as a screening tool to confirm a hematologic disorder, to establish or rule out a diagnosis, to detect an unsuspected hematologic disorder, or to monitor effects of radiation or chemotherapy. Abnormal results may be due to a primary disorder of the cell-producing organs or an underlying disease. Results should be interpreted in conjunction with the patient's clinical picture and appropriate additional testing performed.

Erythrocyte Sedimentation Rate (ESR)Clinical Significance :

The erythrocyte sedimentation rate (ESR) is a simple but non-specific test that helps to detect inflammation associated with conditions such as infections, cancers, and autoimmune diseases.

Total T3 (Triiodothyronine)Clinical Significance :

Thyroid hormones, T3 and T4, which are secreted by the thyroid gland, regulate a number of developmental, metabolic, and neural activities throughout the body. The thyroid gland synthesizes 2 hormones - T3 and T4. T3 production in the thyroid gland constitutes approximately 20% of the total circulating T3, 80% being produced by peripheral conversion from T4. T3 is more potent biologically. Total T3 comprises of Free T3 and bound T3. Bound T3 remains bound to carrier proteins like thyroid-binding globulin, prealbumin, and albumin. Only the free forms are metabolically active. In hyperthyroidism, both T4 and T3 levels are usually elevated, but in some rare cases, only T3 elevation is also seen. In hypothyroidism T4 and T3 levels are both low. T3 levels are frequently low in sick or hospitalized euthyroid patients.

Total T4 (Thyroxine)

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Clinical Significance :

Total T4 is synthesized in the thyroid gland. About 0.05% of circulating T4 is in the free or biologically active form. The remainder is bound to thyroxine-binding globulin (TBG), prealbumin, and albumin. High levels of T4 (and FT4) causes hyperthyroidism and low levels lead to hypothyroidism.

TSH 3rd Generation**Clinical Significance :**

TSH levels are elevated in primary hypothyroidism and low in primary hyperthyroidism. Evaluation of TSH is useful in the differential diagnosis of primary from secondary and tertiary hypothyroidism. In primary hypothyroidism, TSH levels are elevated, while in secondary and tertiary hypothyroidism, TSH levels are low or normal. High TSH level in the presence of normal FT4 is called subclinical hypothyroidism and low TSH with normal FT4 is called subclinical hyperthyroidism. Sick, hospitalized patients may have falsely low or transiently elevated TSH. Significant diurnal variation is also seen in TSH levels.

Guidelines for TSH levels in pregnancy, as per American Thyroid Association, are as follows:

PREGNANCY TRIMESTER	BIOLOGICAL REFERENCE INTERVAL	UNIT
FIRST TRIMESTER	0.100 - 2.500	μIU/mL
SECOND TRIMESTER	0.200 - 3.000	μIU/mL
THIRD TRIMESTER	0.300 - 3.000	μIU/mL

Stool Routine & Microscopic Examination**Clinical Significance :**

Routine and microscopic examination of stool sample comprises of macroscopic as well as microscopic examination of the sample for presence of parasitic ova and cysts.

Bilirubin Total**Clinical Significance :**

"Total Bilirubin is one of the most commonly used tests to assess liver function. A number of inherited and acquired diseases affect bilirubin production, metabolism, storage and excretion and causes hyperbilirubinemia resulting in jaundice. Hyperbilirubinemia may be due to increased bilirubin

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production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Unconjugated hyperbilirubinemia is seen in newborn and known as physiological jaundice. Elevated unconjugated bilirubin in the neonatal period may result in brain damage (kernicterus). Crigler-Najjar syndromes type I and type II are also associated with elevated levels of indirect bilirubin. Both conjugated and unconjugated bilirubin are increased in hepatitis and space-occupying lesions of the liver; and obstructive lesions such as carcinoma of the head of the pancreas, common bile duct, or ampulla of Vater."

Bilirubin DirectClinical Significance :

"Direct bilirubin is a measurement of conjugated bilirubin. Jaundice can occur as a result of increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Inherited disorders in which direct bilirubin levels are increased are seen in Dubin-Johnson syndrome and Rotor syndrome, idiopathic neonatal hepatitis and biliary atresia. The most commonly occurring form of jaundice of the newborn called physiological jaundice is due to increase in levels of indirect bilirubin. Both conjugated and unconjugated bilirubin are increased in hepatocellular diseases such as hepatitis and space-occupying lesions of the liver, obstructive lesions such as carcinoma of the head of the pancreas, common bile duct, or ampulla of Vater."

SGOT / ASTClinical Significance :

"Elevated aspartate aminotransferase (AST) values are seen most commonly in parenchymal liver diseases. Values can be elevated from 10 to 100 times the normal range, though commonly 20 to 50 times elevations are seen. AST levels are raised in infectious hepatitis and other inflammatory conditions affecting the liver along with ALT, though ALT levels are higher. The ALT:AST ratio which is normally <1 is reversed in these conditions and becomes >1. AST levels are usually raised before clinical signs and symptoms of disease appear. AST and ALT also rise in primary or metastatic carcinoma of the liver, with AST usually being higher than ALT. Elevated AST values may also be seen in disorders affecting the heart, skeletal muscle and kidney, such as myocardial infarction, muscular dystrophy, dermatomyositis, acute pancreatitis and crushed muscle injuries."

SGPT / ALTClinical Significance :

Elevated alanine aminotransferase (ALT) values are seen in parenchymal liver diseases characterized by a destruction of hepatocytes. Values are at least 10 times higher the normal range and may reach up to 100 times the upper reference limit. Commonly, values are seen to be 20 - 50 times higher than normal. In infectious hepatitis and other inflammatory conditions affecting the liver, ALT levels rise more

121222026447 Mrs. TWINKLE REG-313500 C

Page No: 13 of 17



Client**Jeevan Jyoti HLM**

Pathkind Diagnostics Pvt. Ltd.

162, Lowther Road, Bai Ka Bagh, Prayagraj

Processed By**Pathkind Diagnostics Pvt. Ltd.**

162, Lowther Road, Bai Ka Bagh, Prayagraj

Uttar Pradesh-211003

Name : Mrs. TWINKLE REG-313500 OPD	Billing Date	: 26/11/2022 09:24:17
Age : 29 Yrs	Sample Collected on	: 26/11/2022 09:36:06
Sex : Female	Sample Received on	: 26/11/2022 09:59:17
P. ID No. : P1212100006426	Report Released on	: 26/11/2022 12:23:19
Accession No : 121222026447	Barcode No.	: 1201068143, 1201068144, 1201068157, 1201068158, 1201068145
Referring Doctor : SELF	Ref no.	:
Referred By :		

Report Status - Preliminary Report

Test Name	Result	Biological Ref. Interval	Unit
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than aspartate aminotransferase (AST), and the ALT/AST ratio, which is normally <1 , is reversed and becomes >1 . ALT levels usually rise before clinical signs and symptoms of disease appear.

Alkaline Phosphatase (ALP)Clinical Significance :

Alkaline Phosphatase levels can be elevated in both liver related as well as bone related conditions. ALP levels are raised (more than 3 fold) in extrahepatic biliary obstruction (eg, by stone or by cancer of the head of the pancreas) than in intrahepatic obstruction, and is directly proportional to the level of obstruction. Levels may rise up to 10 to 12 times the upper limit of normal range and returns to normal on surgical removal of the obstruction. ALP levels rise together with GGT levels and If both GGT and ALP are elevated, a liver source of the ALP is likely. Among bone diseases, ALP levels rise in Paget disease (up to 25 fold), osteomalacia, rickets, primary and secondary hyperparathyroidism and osteogenic bone cancer. Elevated ALP is seen in children following accelerated bone growth. Also, a 2 to 3fold elevation may be observed in women in the third trimester of pregnancy, although the interval is very wide and levels may not exceed the upper limit of the reference interval in some cases.

Total ProteinClinical Significance :

High levels of Serum Total Protein is seen in increased acute phase reactants in inflammation, late-stage liver disease, infections, multiple myeloma and other malignant paraproteinemias. Hypoproteinemia is seen in hypogammaglobulinemia, nephrotic syndrome and protein-losing enteropathy.

AlbuminClinical Significance :

"Hypoalbuminemia can be caused by impaired synthesis due to liver disease (primary) or due to diminished protein intake (secondary), increased catabolism due to tissue damage and inflammation; malabsorption of amino acids; and increased renal excretion (eg, nephrotic syndrome). Hyperalbuminemia is seen in dehydration."

Lipid Profile

Proposed LDL-C goals in very high risk and extreme risk group patients by the Lipid Association of India.

121222026447 Mrs. TWINKLE REG-313500 C

Page No: 14 of 17



Client

Jeevan Jyoti HLM

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Test Name	Result	Biological Ref. Interval	Unit
Very High Risk group(VHRG)	Extreme Risk group		
	Category A	Category B	
LDL-C goal of <50 mg/dl	LDL-C goal of <50 mg/dl (recommended) LDL-C goal of ≤30 mg/dl (optional)	LDL-C goal of ≤30 mg/dl	
High-risk conditions Any one of following:	CAD with ≥1 of following:	CAD with ≥1 of following:	
1. ASCVD (CAD/PAD/TIA or stroke) 2. Homozygous familial 3. hypercholesterolemia 4. Diabetes with ≥2 major ASCVD risk factors*/target organ damage	1. Diabetes without target organ damage/≤1 major 2. ASCVD risk factors 3. Familial hypercholesterolemia 4. ≥3 major ASCVD risk factors 5. CKD stage 3B and 4 6. ≥2 major ASCVD risk factors with ≥1 moderate 7. non-conventional risk factor# 8. Lp(a) ≥50 mg/dl 9. Coronary calcium score ≥300 HU 10. Extreme of a single risk factor 11. PAD 12. H/o TIA or stroke 13. Non-stenotic carotid plaque	1. Diabetes + polyvascular disease/≥2 2. major ASCVD risk factors*/target organ 3. damage 4. Recurrent ACS (within 12 months) 5. despite on LDL-C goal 6. Homozygous familial 7. Hypercholesterolemia	

The LDL-C goal of ≤30 mg/dl must be pursued after detailed risk-benefit discussion between physician and patient.

Clinical judgment to be used in decision making if the patient has disease/risk factors not covered in the table, eg. peripheral arterial disease or cerebrovascular disease.

*Major ASCVD risk factors: 1. Age- male ≥45 years, female ≥55 years, 2. Family h/o premature CAD- male <55 years, female <65 years, 3. Smoking/tobacco use, 4. Systemic hypertension, 5. Low HDL (males <40 mg/dl and females <50 mg/dl).

Uric Acid

121222026447 Mrs. TWINKLE REG-313500



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Clinical Significance :

Uric acid is the final product of purine metabolism. Serum uric acid levels are raised in case of increased purine synthesis, inherited metabolic disorder, excess dietary purine intake, increased nucleic acid turnover, malignancy and cytotoxic drugs. Decreased levels are seen in chronic renal failure, severe hepatocellular disease with reduced purine synthesis, defective renal tubular reabsorption, overtreatment of hyperuricemia with allopurinol, as well as some cancer therapies.

Urine Routine & Microscopic ExaminationClinical Significance :

Urine routine examination and microscopy comprises of a set of screening tests that can detect some common diseases like urinary tract infections, kidney disorders, liver problems, diabetes or other metabolic conditions. Physical characteristics (colour and appearance), chemical composition (glucose, protein, ketone, blood, bilirubin and urobilinogen) and microscopic content (pus cells, epithelial cells, RBCs, casts and crystals) are analyzed and reported.

**** End of Report******Dr. Ankit Singh**

MBBS, MD (Pathologist)

Lab Head

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Page No: 16 of 17



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HEART	Lipid Profile	Lipid Profile with Direct LDL	Lipid Profile with Direct LDL
DIABETES	FBS, HbA1c	FBS, HbA1c, Microalbumin	FBS, HbA1c, Microalbumin
KIDNEY	BUN, Creatinine, Bun/Creatinine Ratio, Electrolytes, Uric Acid, Urine R/E	BUN, Creatinine, BUN/Creatinine Ratio, Electrolytes, Uric Acid, Urine R/E	BUN, Creatinine, BUN/Creatinine Ratio, Electrolytes, Uric Acid, Urine R/E
BONES	Vitamin D, Calcium	Vitamin D, Calcium, Phosphorus	Vitamin D, Calcium, Phosphorus, Rheumatoid Factor
THYROID	T3, T4, TSH	T3, T4, TSH	FT3, FT4, TSH
NERVES	Vitamin B12	Vitamin B12	Vitamin B12
LIVER	Bilirubin (Total, Direct, Indirect), SGOT, SGPT, ALP, Protein, Albumin, Globulin, A:G Ratio, HBsAg	Bilirubin (Total, Direct, Indirect), SGOT, SGPT, ALP, GGT, LDH, Protein, Albumin, Globulin, A:G Ratio, HBsAg	Bilirubin (Total, Direct, Indirect), SGOT, SGPT, ALP, GGT, LDH, Protein, Albumin, Globulin, A:G Ratio, HBsAg
ANAEMIA	Iron, TIBC, UIBC, % Saturation	Iron, TIBC, UIBC, % Saturation, Ferritin	Iron, TIBC, UIBC, % Saturation, Ferritin, Folic Acid
INFECTION	CBC, ESR	CBC, ESR	CBC, ESR

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