

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. KUMUD JHA REG - 309777	Billing Date
Age : 39 Yrs 9 Mon 15 Days	Sample Collected on
Sex : Female	Sample Received on
P. ID No. : P1212100017840	Report Released on
Accession No : 12122307298	Barcode No.
Referring Doctor : Dr. R K SHARMA, MBBS, MD (MEDICINE)	Ref no.
Referred By :	

Report Status - Preliminary Report

Test Name	Result	Biological Ref. Interval	Unit
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HAEMATOLOGY
Complete Blood Count (CBC)

Haemoglobin (Hb) <i>Sample: Whole Blood EDTA Method: Photometric measurement</i>	11.9 L	12.0 - 15.0	gm/dL
Total WBC Count / TLC <i>Sample: Whole Blood EDTA Method: Impedance</i>	4.5	4.0 - 10.0	thou/ μ L
RBC Count <i>Sample: Whole Blood EDTA Method: Impedance</i>	4.6	3.8 - 4.8	million/ μ L
PCV / Hematocrit <i>Sample: Whole Blood EDTA Method: Impedance</i>	35.8 L	36.0 - 46.0	%
MCV <i>Sample: Whole Blood EDTA Method: Calculated</i>	78.3 L	83.0 - 101.0	fL
MCH <i>Sample: Whole Blood EDTA Method: Calculated</i>	26.1 L	27.0 - 32.0	pg
MCHC <i>Sample: Whole Blood EDTA Method: Calculated</i>	33.4	31.5 - 34.5	g/dL
RDW (Red Cell Distribution Width) <i>Sample: Whole Blood EDTA Method: Calculated</i>	13.9	11.9 - 15.5	%
DLC (Differential Leucocyte Count) <i>Method: Flowcytometry/Microscopy</i>			
Neutrophils <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	67	40 - 80	%

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Lymphocytes <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	25	20 - 40	%
Eosinophils <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	04	01 - 06	%
Monocytes <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	04	02 - 10	%
Basophils <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	00	00 - 02	%
Absolute Neutrophil Count <i>Sample: Whole Blood EDTA</i>	3015	2000 - 7000	/μL
Absolute Lymphocyte Count <i>Sample: Whole Blood EDTA</i>	1125	1000 - 3000	/μL
Absolute Eosinophil Count <i>Sample: Whole Blood EDTA</i>	180	20 - 500	/μL
Absolute Monocyte Count <i>Sample: Whole Blood EDTA</i>	180 L	200 - 1000	/μL
Absolute Basophil Count <i>Sample: Whole Blood EDTA</i>	00 L	20 - 100	/μL
DLC Performed By <i>Sample: Whole Blood EDTA</i>	EDTA Smear		
Platelet Count <i>Sample: Whole Blood EDTA Method: Impedance</i>	190	150 - 410	thou/μL
MPV (Mean Platelet Volume) <i>Sample: Whole Blood EDTA Method: Calculated</i>	12.3 H	6.8 - 10.9	fL

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<i>Sample: Whole Blood EDTA</i>			
Erythrocyte Sedimentation Rate (ESR)	80 H	<12	mm 1st Hour
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Modified Westergren Method</i>			
Blood Group			
Blood Grouping	"O"		
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Column Agglutination</i>			
Rh (D) Typing	POSITIVE		
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Column agglutination</i>			

BIOCHEMISTRY

HbA1C (Glycosylated Hemoglobin)

HbA1c	7.8 H	Non Diabetic : < 5.7 % Prediabetic Range : 5.7 - 6.4 % Diabetic Range : >= 6.5 % Goal of Therapy : <7.0 % Action suggested : >8.0 %	%
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Turbidimetric inhibition immunoassay</i>			
Mean Plasma Glucose	177.2 H	<116.0	mg/dL
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Calculated</i>			
Fasting Plasma Glucose	141 H	74 - 106	mg/dl
<i>Sample: Fluoride Plasma - F</i>			
Glucose Post-Prandial	128	70 - 140	mg/dl
<i>Sample: Fluoride Plasma - PP</i>			
<i>Method: Hexokinase</i>			

Kidney Profile

Blood Urea

Blood Urea Nitrogen (BUN)	8.82	7.00 - 18.69	mg/dL
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry-Urease / GLDH</i>			

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Urea <i>Sample: Serum Method: Spectrophotometry</i>	18.87	17.00 - 43.00	mg/dL
Creatinine <i>Sample: Serum Method: Spectrophotometry</i>	0.52	0.50 - 1.10	mg/dL
BUN Creatinine Ratio <i>Sample: Serum Method: Calculated</i>	17	10 - 20	
Uric Acid <i>Sample: Serum Method: Spectrophotometry</i>	7.9 H	2.4 - 5.7	mg/dL
Total Protein <i>Sample: Serum Method: Spectrophotometry</i>	6.9	6.4 - 8.3	g/dL
Albumin <i>Sample: Serum Method: Spectrophotometry</i>	4.1	4.0 - 4.9	g/dL
Globulin <i>Sample: Serum Method: Calculated</i>	2.8	1.9 - 3.7	g/dL
Albumin : Globulin Ratio <i>Sample: Serum Method: Calculated</i>	1.5	1.0 - 2.1	
Sodium <i>Sample: Serum Method: ISE</i>	139	136 - 145	mmol/L
Potassium <i>Sample: Serum Method: ISE</i>	4.5	3.5 - 5.1	mmol/L
Chloride <i>Sample: Serum Method: ISE</i>	110 H	97 - 107	mmol/L

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CLINICAL PATHOLOGY

Urine Routine & Microscopic Examination

Method: Reflectance Photometry

Physical Examination

Colour

Sample: Urine

Method: Physical Examination

Pale Yellow

Pale Yellow

Appearance

Sample: Urine

Method: Physical Examination

Slightly Hazy

Clear

Specific Gravity

Sample: Urine

Method: pKa change of pretreated polyelectrolytes

1.010

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/oxidase

Not Detected

Not Detected

Protein

Sample: Urine

Method: Protein-error-of-indicators principle

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>	2 - 3	0 - 5	/hpf
RBC <i>Sample: Urine</i>	Not Detected	Not Detected	/hpf
Epithelial Cells <i>Sample: Urine</i>	8 - 10	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

Thyroid Profile Total

Total T3 (Triiodothyronine) <i>Sample: Serum</i> <i>Method: ECLIA</i>	1.84	0.80 - 2.00	ng/mL
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Total T4 (Thyroxine) <i>Sample: Serum</i> <i>Method: ECLIA</i>	12.64	5.10 - 14.10	µg/dL
TSH 3rd Generation <i>Sample: Serum</i> <i>Method: ECLIA</i>	<0.005 L	0.270 - 4.200	µIU/mL
Lipid Profile <i>Method: Sample: Serum</i>			
Total Cholesterol <i>Sample: Serum</i> <i>Method: Spectrophotometry</i>	173	No risk : < 200 Moderate risk : 200-239 High risk : =240	mg/dL
Triglycerides <i>Sample: Serum</i> <i>Method: Spectrophotometry</i>	139	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>	114 H	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>	31 L	Low : < 40 Optimal : 40 - 60 High : > 60	mg/dL
VLDL Cholesterol <i>Sample: Serum</i> <i>Method: Calculated</i>	27.8	Desirable 10 - 35	mg/dL
Total Cholesterol / HDL Ratio <i>Sample: Serum</i> <i>Method: Calculated</i>	5.58 H	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>	3.7 H	0.5 - 3.0	

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Accession No : 12122307298

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Referred By :

Billing Date : 26/08/2023 09:28:39

Sample Collected on : 26/08/2023 13:23:25

Sample Received on : 26/08/2023 13:37:34

Report Released on : 26/08/2023 14:26:18

Barcode No. : 1212050392, 1212031822,
1212050391, 1212031913,
1212050393

Ref no. :

Report Status - Preliminary Report**Test Name****Result****Biological Ref. Interval****Unit**Low Risk : 0.5 - 3.0
Moderate Risk : 3.1 - 6.0
High Risk : > 6.0

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Test Name	Result	Biological Ref. Interval	Unit
Liver Function Test (LFT)			
Bilirubin Total	0.4	0.0 - 1.2	mg/dL
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry-Diazo</i>			
Bilirubin Direct	0.1	0.0 - 0.2	mg/dL
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry-Diazo</i>			
Serum Bilirubin (Indirect)	0.30	0.00 - 0.90	mg/dL
<i>Sample: Serum</i>			
<i>Method: Calculated</i>			
SGOT / AST	14	<31	U/L
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry</i>			
SGPT / ALT	16	<33	U/L
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry</i>			
AST / ALT Ratio	0.88		
<i>Sample: Serum</i>			
<i>Method: Calculated</i>			
Alkaline Phosphatase (ALP)	86	<98	U/L
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry</i>			
Total Protein	6.9	6.4 - 8.3	g/dL
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry</i>			
Albumin	4.1	4.0 - 4.9	g/dL
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry</i>			
Globulin	2.8	1.9 - 3.7	g/dL
<i>Sample: Serum</i>			
<i>Method: Calculated</i>			
Albumin/Globulin (A/G) Ratio	1.5	1.0 - 2.1	g/dL
<i>Sample: Serum</i>			
<i>Method: Calculated</i>			

Complete Blood Count (CBC)

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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.

HbA1C (Glycosylated Hemoglobin)Clinical Significance :

Hemoglobin A1c (HbA1c) level reflects the mean glucose concentration over the previous period (approximately 8-12 weeks) and provides a much better indication of long-term glycemic control than blood and urinary glucose determinations. American Diabetes Association (ADA) include the use of HbA1c to diagnose diabetes, using a cutpoint of 6.5%. The ADA recommends measurement of HbA1c 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to assess whether a patient's metabolic control has remained continuously within the target range. Falsely low HbA1c results may be seen in conditions that shorten erythrocyte life span. and may not reflect glycemic control in these cases accurately.

Glucose Post-Prandial**COMMENTS / INTERPRETATION:**

Any of the following results, confirmed on a subsequent day, can be considered diagnostic for diabetes:

-Fasting plasma or serum glucose $>$ or $=$ 126 mg/dL after an 8-hour fast

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-2-Hour plasma or serum glucose $>$ or $=$ 200 mg/ dL during a 75-gram oral glucose tolerance test (OGTT)
-Random glucose $>$ 200 mg/dL, plus typical symptoms

Patients with "impaired" glucose regulation are those whose fasting serum or plasma glucose fall between 101 and 126 mg/dL, or whose 2-hour value on oral glucose tolerance test fall between 140 and 199 mg/dL. These patients have a markedly increased risk of developing type 2 diabetes and should be counseled for lifestyle changes and followed up with more testing.

Uric AcidClinical 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.

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

Total Cholesterol
Clinical Significance :

Serum cholesterol is elevated in hereditary hyperlipoproteinemias and in other metabolic diseases. Moderate-to-markedly elevated values are also seen in cholestatic liver disease. Increased levels are a risk factor for cardiovascular disease. Low levels of cholesterol may be seen in disorders like hyperthyroidism, malabsorption, and deficiencies of apolipoproteins.

Triglycerides
Clinical Significance :

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Report Status - Preliminary Report

Test Name	Result	Biological Ref. Interval	Unit
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Triglycerides are partly synthesized in the liver and partly derived from the diet. Increased serum triglyceride levels are a risk factor for atherosclerosis. Hyperlipidemia may be inherited or may be due to conditions like biliary obstruction, diabetes mellitus, nephrotic syndrome, renal failure, certain metabolic disorders or drug induced.

HDL Cholesterol

Clinical Significance :

High-density lipoprotein (HDL) is an important tool used to assess risk of developing coronary heart disease. Increased levels are seen in persons with more physical activity. Very high levels are seen in case of metabolic response to medications like hormone replacement therapy. Raised levels are also seen in case of chronic intoxication with alcohol, heavy metals or industrial chemicals. Low HDL cholesterol correlates with increased risk for coronary heart disease (CHD). Very low levels are seen in Tangier disease, cholestatic liver disease and in association with decreased hepatocyte function.

Lipid Profile

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

Very High Risk group (VHRG)	Extreme Risk group	Category B
LDL-C goal of <50 mg/dl High-risk conditions Any one 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	LDL-C goal of <50 mg/dl (recommended) LDL-C goal of ≤ 30 mg/dl (optional) CAD with ≥ 1 of following: 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	LDL-C goal of ≤ 30 mg/dl CAD with ≥ 1 of following: 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

12122307298 Mrs. KUMUD JHA REG - 3097



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. KUMUD JHA REG - 309777	Billing Date	: 26/08/2023 09:28:39
Age : 39 Yrs 9 Mon 15 Days	Sample Collected on	: 26/08/2023 13:23:25
Sex : Female	Sample Received on	: 26/08/2023 13:37:34
P. ID No. : P1212100017840	Report Released on	: 26/08/2023 14:26:18
Accession No : 12122307298	Barcode No.	: 1212050392, 1212031822, 1212050391, 1212031913, 1212050393
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	7. non-conventional risk factor# 8. Lp(a) \geq 50 mg/dl 9. Coronary calcium score \geq 300 HU 10. Extreme of a single risk factor 11. PAD 12. H/o TIA or stroke 13. Non-stenotic carotid plaque		

The LDL-C goal of \leq 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 \geq 45 years, female \geq 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).

#Moderate non-conventional risk factors: 1. Coronary calcium score 100-299 HU, 2. Increased carotid intima-media thickness, 3. Lp(a) \geq 20-49

Bilirubin Total**Interpretation**

Bilirubin is one of the most commonly used tests to assess liver function. Approximately 85% of the total bilirubin produced is derived from hemoglobin, while the remaining 15% is produced from RBC precursors destroyed in the bone marrow and from the catabolism of other heme-containing proteins. After production in peripheral tissues, bilirubin is rapidly taken up by hepatocytes where it is conjugated and then excreted in the bile. A number of inherited and acquired diseases affect one or more of the steps involved in the production, uptake, storage, metabolism, and excretion of bilirubin. In hepatobiliary diseases of various causes, bilirubin uptake, storage, and excretion are impaired to varying degrees.

The most commonly occurring form of unconjugated hyperbilirubinemia is that seen in newborns and referred to as physiological jaundice. Indirect bilirubin is a calculated parameter its range has not been defined for neonatal period (0-14 days).

Bilirubin Direct

12122307298 Mrs. KUMUD JHA REG - 3097



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The most commonly occurring form of unconjugated hyperbilirubinemia is that seen in newborns and referred to as physiological jaundice. Indirect bilirubin is a calculated parameter its range has not been defined for neonatal period (0-14 days).

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 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)

12122307298 Mrs. KUMUD JHA REG - 3097



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Test Name	Result	Biological Ref. Interval	Unit
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Clinical Significance :

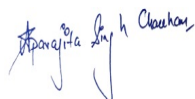
Alkaline Phosphatase levels can be elevated in both liver related as well as bone related conditions. ALP levels are raised (more than 3 fold) in extrahepatic biliary obstruction (eg, by stone or by cancer of the head of the pancreas) than in intrahepatic obstruction, and is directly proportional to 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 Protein**Clinical 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.n. Hypoproteinemia is seen in hypogammaglobulinemia, nephrotic syndrome and protein-losing enteropathy.

Albumin**Clinical 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."

**** End of Report******Dr Aparajita singh chauhan**

Lab head - Prayagraj (JJH)

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Report Status - Preliminary Report

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HAEMATOLOGY
Complete Blood Count (CBC)

Haemoglobin (Hb) <i>Sample: Whole Blood EDTA Method: Photometric measurement</i>	11.9 L	12.0 - 15.0	gm/dL
Total WBC Count / TLC <i>Sample: Whole Blood EDTA Method: Impedance</i>	4.5	4.0 - 10.0	thou/ μ L
RBC Count <i>Sample: Whole Blood EDTA Method: Impedance</i>	4.6	3.8 - 4.8	million/ μ L
PCV / Hematocrit <i>Sample: Whole Blood EDTA Method: Impedance</i>	35.8 L	36.0 - 46.0	%
MCV <i>Sample: Whole Blood EDTA Method: Calculated</i>	78.3 L	83.0 - 101.0	fL
MCH <i>Sample: Whole Blood EDTA Method: Calculated</i>	26.1 L	27.0 - 32.0	pg
MCHC <i>Sample: Whole Blood EDTA Method: Calculated</i>	33.4	31.5 - 34.5	g/dL
RDW (Red Cell Distribution Width) <i>Sample: Whole Blood EDTA Method: Calculated</i>	13.9	11.9 - 15.5	%
DLC (Differential Leucocyte Count) <i>Method: Flowcytometry/Microscopy</i>			
Neutrophils <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	67	40 - 80	%

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Test Name	Result	Biological Ref. Interval	Unit
Lymphocytes <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	25	20 - 40	%
Eosinophils <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	04	01 - 06	%
Monocytes <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	04	02 - 10	%
Basophils <i>Sample: Whole Blood EDTA Method: VCS Technology & Microscopy</i>	00	00 - 02	%
Absolute Neutrophil Count <i>Sample: Whole Blood EDTA</i>	3015	2000 - 7000	/μL
Absolute Lymphocyte Count <i>Sample: Whole Blood EDTA</i>	1125	1000 - 3000	/μL
Absolute Eosinophil Count <i>Sample: Whole Blood EDTA</i>	180	20 - 500	/μL
Absolute Monocyte Count <i>Sample: Whole Blood EDTA</i>	180 L	200 - 1000	/μL
Absolute Basophil Count <i>Sample: Whole Blood EDTA</i>	00 L	20 - 100	/μL
DLC Performed By <i>Sample: Whole Blood EDTA</i>	EDTA Smear		
Platelet Count <i>Sample: Whole Blood EDTA Method: Impedance</i>	190	150 - 410	thou/μL
MPV (Mean Platelet Volume) <i>Sample: Whole Blood EDTA Method: Calculated</i>	12.3 H	6.8 - 10.9	fL

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Test Name	Result	Biological Ref. Interval	Unit
<i>Sample: Whole Blood EDTA</i>			
Erythrocyte Sedimentation Rate (ESR)	80 H	<12	mm 1st Hour
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Modified Westergren Method</i>			
Blood Group			
Blood Grouping	"O"		
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Column Agglutination</i>			
Rh (D) Typing	POSITIVE		
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Column agglutination</i>			

BIOCHEMISTRY
HbA1C (Glycosylated Hemoglobin)

HbA1c	7.8 H	Non Diabetic : < 5.7 % Prediabetic Range : 5.7 - 6.4 % Diabetic Range : >= 6.5 % Goal of Therapy : <7.0 % Action suggested : >8.0 %	%
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Turbidimetric inhibition immunoassay</i>			
Mean Plasma Glucose	177.2 H	<116.0	mg/dL
<i>Sample: Whole Blood EDTA</i>			
<i>Method: Calculated</i>			
Fasting Plasma Glucose	141 H	74 - 106	mg/dl
<i>Sample: Fluoride Plasma - F</i>			
Glucose Post-Prandial	128	70 - 140	mg/dl
<i>Sample: Fluoride Plasma - PP</i>			
<i>Method: Hexokinase</i>			

Kidney Profile
Blood Urea

Blood Urea Nitrogen (BUN)	8.82	7.00 - 18.69	mg/dL
<i>Sample: Serum</i>			
<i>Method: Spectrophotometry-Urease / GLDH</i>			

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Test Name	Result	Biological Ref. Interval	Unit
Urea <i>Sample: Serum Method: Spectrophotometry</i>	18.87	17.00 - 43.00	mg/dL
Creatinine <i>Sample: Serum Method: Spectrophotometry</i>	0.52	0.50 - 1.10	mg/dL
BUN Creatinine Ratio <i>Sample: Serum Method: Calculated</i>	17	10 - 20	
Uric Acid <i>Sample: Serum Method: Spectrophotometry</i>	7.9 H	2.4 - 5.7	mg/dL
Total Protein <i>Sample: Serum Method: Spectrophotometry</i>	6.9	6.4 - 8.3	g/dL
Albumin <i>Sample: Serum Method: Spectrophotometry</i>	4.1	4.0 - 4.9	g/dL
Globulin <i>Sample: Serum Method: Calculated</i>	2.8	1.9 - 3.7	g/dL
Albumin : Globulin Ratio <i>Sample: Serum Method: Calculated</i>	1.5	1.0 - 2.1	
Sodium <i>Sample: Serum Method: ISE</i>	139	136 - 145	mmol/L
Potassium <i>Sample: Serum Method: ISE</i>	4.5	3.5 - 5.1	mmol/L
Chloride <i>Sample: Serum Method: ISE</i>	110 H	97 - 107	mmol/L

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CLINICAL PATHOLOGY
Urine Routine & Microscopic Examination

Method: Reflectance Photometry

Physical Examination
Colour

Sample: Urine

Method: Physical Examination

Pale Yellow

Pale Yellow

Appearance

Sample: Urine

Method: Physical Examination

Slightly Hazy

Clear

Specific Gravity

Sample: Urine

Method: pKa change of pretreated polyelectrolytes

1.010

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/oxidase

Not Detected

Not Detected

Protein

Sample: Urine

Method: Protein-error-of-indicators principle

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>	2 - 3	0 - 5	/hpf
RBC <i>Sample: Urine</i>	Not Detected	Not Detected	/hpf
Epithelial Cells <i>Sample: Urine</i>	8 - 10	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
Thyroid Profile Total

Total T3 (Triiodothyronine) <i>Sample: Serum</i> <i>Method: ECLIA</i>	1.84	0.80 - 2.00	ng/mL
--	------	-------------	-------

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Test Name	Result	Biological Ref. Interval	Unit
Total T4 (Thyroxine) Sample: Serum Method: ECLIA	12.64	5.10 - 14.10	µg/dL
TSH 3rd Generation Sample: Serum Method: ECLIA	<0.005 L	0.270 - 4.200	µIU/mL
Lipid Profile Method: Sample: Serum			
Total Cholesterol Sample: Serum Method: Spectrophotometry	173	No risk : < 200 Moderate risk : 200-239 High risk : =240	mg/dL
Triglycerides Sample: Serum Method: Spectrophotometry	139	Desirable : < 150 Borderline High : 150 - 199 High : 200 - 499 Very High : >= 500	mg/dL
LDL Cholesterol (Calculated) Sample: Serum Method: Calculated	114 H	Optimal : <100 Near Optimal : 100 - 129 Borderline High : 130 - 160 High : 161 - 189 Very High : >=190	mg/dL
HDL Cholesterol Sample: Serum Method: Spectrophotometry	31 L	Low : < 40 Optimal : 40 - 60 High : > 60	mg/dL
VLDL Cholesterol Sample: Serum Method: Calculated	27.8	Desirable 10 - 35	mg/dL
Total Cholesterol / HDL Ratio Sample: Serum Method: Calculated	5.58 H	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 Sample: Serum Method: Calculated	3.7 H	0.5 - 3.0	

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Report Status - Preliminary Report**Test Name****Result****Biological Ref. Interval****Unit**Low Risk : 0.5 - 3.0
Moderate Risk : 3.1 - 6.0
High Risk : > 6.0

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Test Name	Result	Biological Ref. Interval	Unit
Liver Function Test (LFT)			
Bilirubin Total Sample: Serum Method: Spectrophotometry-Diazo	0.4	0.0 - 1.2	mg/dL
Bilirubin Direct Sample: Serum Method: Spectrophotometry-Diazo	0.1	0.0 - 0.2	mg/dL
Serum Bilirubin (Indirect) Sample: Serum Method: Calculated	0.30	0.00 - 0.90	mg/dL
SGOT / AST Sample: Serum Method: Spectrophotometry	14	<31	U/L
SGPT / ALT Sample: Serum Method: Spectrophotometry	16	<33	U/L
AST / ALT Ratio Sample: Serum Method: Calculated	0.88		
Alkaline Phosphatase (ALP) Sample: Serum Method: Spectrophotometry	86	<98	U/L
Total Protein Sample: Serum Method: Spectrophotometry	6.9	6.4 - 8.3	g/dL
Albumin Sample: Serum Method: Spectrophotometry	4.1	4.0 - 4.9	g/dL
Globulin Sample: Serum Method: Calculated	2.8	1.9 - 3.7	g/dL
Albumin/Globulin (A/G) Ratio Sample: Serum Method: Calculated	1.5	1.0 - 2.1	g/dL

Complete Blood Count (CBC)

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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.

HbA1C (Glycosylated Hemoglobin)Clinical Significance :

Hemoglobin A1c (HbA1c) level reflects the mean glucose concentration over the previous period (approximately 8-12 weeks) and provides a much better indication of long-term glycemic control than blood and urinary glucose determinations. American Diabetes Association (ADA) include the use of HbA1c to diagnose diabetes, using a cutpoint of 6.5%. The ADA recommends measurement of HbA1c 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to assess whether a patient's metabolic control has remained continuously within the target range. Falsely low HbA1c results may be seen in conditions that shorten erythrocyte life span. and may not reflect glycemic control in these cases accurately.

Glucose Post-Prandial**COMMENTS / INTERPRETATION:**

Any of the following results, confirmed on a subsequent day, can be considered diagnostic for diabetes:

-Fasting plasma or serum glucose $>$ or $=$ 126 mg/dL after an 8-hour fast

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-2-Hour plasma or serum glucose $>$ or $=$ 200 mg/ dL during a 75-gram oral glucose tolerance test (OGTT)
-Random glucose $>$ 200 mg/dL, plus typical symptoms

Patients with "impaired" glucose regulation are those whose fasting serum or plasma glucose fall between 101 and 126 mg/dL, or whose 2-hour value on oral glucose tolerance test fall between 140 and 199 mg/dL. These patients have a markedly increased risk of developing type 2 diabetes and should be counseled for lifestyle changes and followed up with more testing.

Uric AcidClinical 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.

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

Total Cholesterol
Clinical Significance :

Serum cholesterol is elevated in hereditary hyperlipoproteinemias and in other metabolic diseases. Moderate-to-markedly elevated values are also seen in cholestatic liver disease. Increased levels are a risk factor for cardiovascular disease. Low levels of cholesterol may be seen in disorders like hyperthyroidism, malabsorption, and deficiencies of apolipoproteins.

Triglycerides
Clinical Significance :

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Triglycerides are partly synthesized in the liver and partly derived from the diet. Increased serum triglyceride levels are a risk factor for atherosclerosis. Hyperlipidemia may be inherited or may be due to conditions like biliary obstruction, diabetes mellitus, nephrotic syndrome, renal failure, certain metabolic disorders or drug induced.

HDL Cholesterol

Clinical Significance :

High-density lipoprotein (HDL) is an important tool used to assess risk of developing coronary heart disease. Increased levels are seen in persons with more physical activity. Very high levels are seen in case of metabolic response to medications like hormone replacement therapy. Raised levels are also seen in case of chronic intoxication with alcohol, heavy metals or industrial chemicals. Low HDL cholesterol correlates with increased risk for coronary heart disease (CHD). Very low levels are seen in Tangier disease, cholestatic liver disease and in association with decreased hepatocyte function.

Lipid Profile

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

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	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

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	7. non-conventional risk factor# 8. Lp(a) \geq 50 mg/dl 9. Coronary calcium score \geq 300 HU 10. Extreme of a single risk factor 11. PAD 12. H/o TIA or stroke 13. Non-stenotic carotid plaque		

The LDL-C goal of \leq 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 \geq 45 years, female \geq 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).

#Moderate non-conventional risk factors: 1. Coronary calcium score 100-299 HU, 2. Increased carotid intima-media thickness, 3. Lp(a) \geq 20-49

Bilirubin Total**Interpretation**

Bilirubin is one of the most commonly used tests to assess liver function. Approximately 85% of the total bilirubin produced is derived from hemoglobin, while the remaining 15% is produced from RBC precursors destroyed in the bone marrow and from the catabolism of other heme-containing proteins. After production in peripheral tissues, bilirubin is rapidly taken up by hepatocytes where it is conjugated and then excreted in the bile. A number of inherited and acquired diseases affect one or more of the steps involved in the production, uptake, storage, metabolism, and excretion of bilirubin. In hepatobiliary diseases of various causes, bilirubin uptake, storage, and excretion are impaired to varying degrees.

The most commonly occurring form of unconjugated hyperbilirubinemia is that seen in newborns and referred to as physiological jaundice. Indirect bilirubin is a calculated parameter its range has not been defined for neonatal period (0-14 days).

Bilirubin Direct

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The most commonly occurring form of unconjugated hyperbilirubinemia is that seen in newborns and referred to as physiological jaundice. Indirect bilirubin is a calculated parameter its range has not been defined for neonatal period (0-14 days).

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 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)

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Clinical Significance :

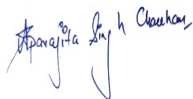
Alkaline Phosphatase levels can be elevated in both liver related as well as bone related conditions. ALP levels are raised (more than 3 fold) in extrahepatic biliary obstruction (eg, by stone or by cancer of the head of the pancreas) than in intrahepatic obstruction, and is directly proportional to 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 Protein**Clinical 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.

Albumin**Clinical 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."

**** End of Report******Dr Aparajita singh chauhan**

Lab head - Prayagraj (JJH)

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