

Dr. Vinay Chopra
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Chairman & Consultant Pathologist

Dr. Yugam Chopra
MD (Pathology)
CEO & Consultant Pathologist

NAME : Miss. ISHANI
AGE/ GENDER : 12 YRS/FEMALE
COLLECTED BY :
REFERRED BY :
BARCODE NO. : 01515764
CLIENT CODE. : KOS DIAGNOSTIC LAB
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

PATIENT ID : 1592293
REG. NO./LAB NO. : 012408260056
REGISTRATION DATE : 26/Aug/2024 05:52 PM
COLLECTION DATE : 26/Aug/2024 05:56PM
REPORTING DATE : 26/Aug/2024 07:07PM

Test Name	Value	Unit	Biological Reference interval
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CLINICAL CHEMISTRY/BIOCHEMISTRY

LIVER FUNCTION TEST (COMPLETE)

BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	21.09 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	16.88 ^H	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	4.21 ^H	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	112.2 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	168.1 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.67	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	342.08	U/L	50.00 - 370.00
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHOTOMETRY	68.1 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.64	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.05	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.59 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.13	RATIO	1.00 - 2.00

ADVICE KINDLY CORRELATE CLINICALLY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Reference Range.
USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)



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Test Name	Value	Unit	Biological Reference interval
CIRRHOSIS		1.4 - 2.0	
INTRAHEPATIC CHOLESTATIS		> 1.5	
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	


DECREASED:


1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)
2. Extra Hepatic cholestasis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6




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Test Name	Value	Unit	Biological Reference interval
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G-6-PD (QUANTITATIVE KINETICS)

G6PD (QUANTITATIVE KINETICS) by SPECTROPHOTOMETRY	8.87	U/gHb	4.6 - 13.5
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INTERPRETATION:

- 1.G-6 PD deficiency is a sex/X-linked recessive genetically inherited RBC enzyme disorder making the cells vulnerable to oxidative denaturation of haemoglobin characterized by abnormally low levels of glucose-6-phosphate dehydrogenase .
2. G6PD deficiency is the most common human enzyme defect.
3. G-6 PD levels are highest in young cells and decrease as cells age, hence in cases of G-6 PD deficiency, the older cells are preferentially destroyed.
- 5.G6PD helps body process carbohydrates and turn them into energy.
6. Hemolytic susceptibility in affected persons can increase greatly during intercurrent illness or upon exposure to various drugs that have oxidant properties like Primaquin, Nalidixic acid, Nitrofurantoin etc., Marked genetic heterogeneity has been reported in G-6 PD deficiency cases and > 300 variants have been defined. This heterogeneity causes variability in the degree of deficiency, types of cells affected, types of drugs causing hemolysis and susceptibility to chronic hemolysis and neonatal jaundice.

COMMON DRUGS THAT CAN INDUCE HEMOLYSIS IN G6PD DEFICIENT INDIVIDUALS INCLUDE:

- 1.Anti Malarial drugs (like primaquine, pamaquine, and chloroquine).
- 2.Sulfonamides (such as sulfanilamide, sulfamethoxazole, and mafenide).
- 3.Thiazolesulfone, methylene blue and naphthalene.
- 4.Certain analgesics (such as aspirin, phenazopyridine, and acetanilide)
- 5.Few non-sulfa antibiotics (nalidixic acid, nitrofurantoin, isoniazid, dapsone, and furazolidone).

*** End Of Report ***





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