

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Patho	ay Chopra ology & Microbiology) & Consultant Pathologist	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mrs. HARJEET KAUR			
AGE/ GENDER	: 61 YRS/FEMALE	PATI	ENT ID	: 1540055
COLLECTED BY	:	REG.	NO./LAB NO.	: 012407060014
REFERRED BY	:	REGI	STRATION DATE	: 06/Jul/2024 08:47 AM
BARCODE NO.	:01512607	COLL	ECTION DATE	: 06/Jul/2024 09:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 06/Jul/2024 09:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON H	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN (HB) by CALORIMETRIC INTERPRETATION:-		10.4 <sup>L</sup>	gm/dL	12.0 - 16.0
tissues back to the lu A low hemoglobin lew <b>ANEMIA (DECRESED I</b> 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemogle <b>POLYCYTHEMIA (INCF</b> 1) People in higher a 2) Smoking (Seconda: 3) Dehydration produ 4) Advanced lung dise 5) Certain tumors	ngs. vel is referred to as ANEMI. <b>HAEMOGLOBIN):</b> Imatic injury, surgery, bleen ncy (iron, vitamin B12, fol- ilems (replacement of bond d blood cell synthesis by cl bbin structure (sickle cell a <b>EASED HAEMOGLOBIN):</b> Ititudes (Physiological) ry Polycythemia)	A or low red blood count. eding, colon cancer or stomac ate) e marrow by cancer) hemotherapy drugs anemia or thalassemia). globin due to increased haem sema)	h ulcer)	dys tissues and returns carbon dioxide from

# NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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CLIENT CODE.					
	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Jul/2024 10:05AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANT'I			
Test Name		Value	Unit	Biological Reference interval	
	ERUM pectrophotometry	0.51	N TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
by DIAZOTIZATION, SPECTROPHOTOMETRY BILIRUBIN DIRECT (CONJUGATED): SERUM		0.19	re a /all	ADULT: 0.00 - 1.20 0.00 - 0.40	
	SPECTROPHOTOMETRY	0.19	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.32	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	59.3 <sup>H</sup>	U/L	7.00 - 45.00	
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	65.6 <sup>H</sup>	U/L	0.00 - 49.00	
AST/ALT RATIO: SER by CALCULATED, SPE	UM	0.9	RATIO	0.00 - 46.00	
ALKALINE PHOSPHA		122.98	U/L	40.0 - 130.0	
GAMMA GLUTAMYL	TRANSFERASE (GGT): SERUM	115.34 <sup>H</sup>	U/L	0.00 - 55.0	
by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY		7.8	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM		4.08	gm/dL	3.50 - 5.50	
by BROMOCRESOL G GLOBULIN: SERUM		3.72 <sup>H</sup>	gm/dL	2.30 - 3.50	
by CALCULATED, SPECTROPHOTOMETRY A: G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY INTERPETATION		1.1	RATIO	1.00 - 2.00	

## **INTERPRETATION**

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

#### **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
INTRAHEPATIC CHOI			> 1.5	
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS			> 1.3 (Slightly Inc	creased)

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 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
		ENDO	CRINOLOGY	
	THYR	OID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONINI	. ,	0.818	ng/mL	0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4): SE	IESCENT MICROPARTICLE IMMUNOASSAY)	8.24	μgm/dL	4.87 - 12.60
IIIINONINE (14). JE	IESCENT MICROPARTICLE IMMUNOASSAY)	0.24	μgiii/uL	4.07 - 12.00
• • •		9.554 <sup>H</sup>	μlU/mL	0.35 - 5.50
by CMIA (CHÈMILUMIN THYROID STIMULAT	ING HORMONE (TSH): SERUM	7.001		
by CMIA (CHÈMILUMIN THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	NESCENT MICROPARTICLE	,		
by CMIA (CHÈMILUMIN THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT INTERPRETATION:	NESCENT MICROPÀRTICLE RASENSITIVE		nd at a minimum batwaan 6.10 m	m. The variation is of the order of 50%.Hence time o

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

#### LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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Test Name	Value	Unit	Biological Reference interval

rest mame			value	Unit		Biological Reference Interv
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREG	NANCY ( µIU/mL)		
1st Trimester			0.10 - 2.50			
2nd Trimester			0.20 - 3.00			
	3rd Trimester			0.30 - 4.10		

### **INCREASED TSH LEVELS:**

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester

\*\*\* End Of Report





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