

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



IAME AGE/ GENDER COLLECTED BY	: Mr. ROBIN MAAN : 27 YRS/MALE			
	: 27 YRS/MALE			
OLLECTED BY		Р	ATIENT ID	: 1740312
	:	R	EG. NO./LAB NO.	: 012501300040
REFERRED BY	:	R	EGISTRATION DATE	: 30/Jan/2025 04:13 PM
BARCODE NO.	:01524671	С	OLLECTION DATE	: 30/Jan/2025 04:17PM
LIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 30/Jan/2025 06:02PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMIST	RY/BIOCHEMIST	'nY
		FERI	RITIN	
FERRITIN: SERUM		131.65	ng/mL	21.81 - 274.66
Hemochromatosis Wilson Disease. Wilson Disease. NCREASED FERRITINI Transfusion overlo Excess dietary Iron Porphyria Cutanea Ineffective erythrop NCREASED FERRITINI Liver disorders (NA Inflammatory cond Leukaemia, hodgkii Alcohol excess. Other malignancies ynthesis of ferritin b Ferritin levels below MOTE: As Ferritin is an acu	OUE TO IRON OVERLOAD (PRIMA or hemosiderosis. DUE TO IRON OVERLOAD (SECON ad tada poiesis. MITHOUT IRON OVERLOAD: SH) or viral hepatitis (B/C). itions (Ferritin is a acute phase o's disease. in which increases probably re y tumour cells. w 10 ng/ml have been reported te phase reactant, it is often rais	NDARY): reactant) both acut eflect the escape of t as indicative of iron	ferritin from damaged liv deficiency anemia. chronic inflammatory cor	ver cells, impaired clearance from the plasma, ndition of the body such as infections leading to vels should always be correlated with C-Reactive
	y inflammatory conditions. eficiency anaemia may occasiona with concomitant hepatocellular	ally have elevated or	normal ferritin levels. This	s is usually seen in patients already receiving iro

KOS Diagnostic Lab (A Unit of KOS Healthcare)





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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		hopra & Microbiology) nsultant Pathologi	Ň	am Chopra ID (Pathology) ant Pathologist
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Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	T	HYROID FUN	CTION TEST: TOTA	L
TRIIODOTHYRONI		0.924	ng/mI	0.35 - 1.93
THYROXINE (T4): S	ESCENT MICROPARTICLE IMMUNO ERUM ESCENT MICROPARTICLE IMMUNO	7.41	μgm/c	dL 4.87 - 12.60
THYROID STIMULA	TING HORMONE (TSH): SEE	2UM 1.128	µIU/m	nL 0.35 - 5.50
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :	ESCENT MICROPARTICLE IMMUNO. RASENSITIVE	ASSAY)		
day has influence on the	measured serum TSH concentrations. Ture at any level of regulation of the	TSH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	ТЗ	- T	T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lo	w Normal	Normal or Low Normal	High

111	<i>ι</i> ιτΔ	TIO	NS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROX	(INE (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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Increased

Normal or High Normal





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	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) MI	m Chopra D (Pathology) ht Pathologist
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Test Name		Value Unit	Biological Reference interval

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	- /
	RECC	MMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (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, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituitary or hypothalamic 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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