

KOS Diagnostic Lab

(A Unit of KOS Healthcare)



Dr. Vinay Chopra
MD (Pathology & Microbiology)
Chairman & Consultant Pathologist

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

NAME : Miss. JANYA

AGE/ GENDER : 15 YRS/FEMALE **PATIENT ID** : 1569203

COLLECTED BY : REG. NO./LAB NO. : 012408030032

 REFERRED BY
 : 03/Aug/2024 10:33 AM

 BARCODE NO.
 : 01514358
 COLLECTION DATE
 : 03/Aug/2024 11:23AM

CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 03/Aug/2024 12:48PM

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit Biological Reference interval

ENDOCRINOLOGY

THYROID FUNCTION TEST: TOTAL

TRIIODOTHYRONINE (T3): SERUM 1.011 ng/mL 0.35 - 1.93 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

THYROXINE (T4): SERUM 7.06 μ gm/dL 4.87 - 13.20

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

THYROID STIMULATING HORMONE (TSH): SERUM 3.272 μIU/mL 0.50 - 5.50

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

3rd GENERATION, ULTRASENSITIVE

INTERPRETATION:

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction (hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	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, 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 (eq. phenytoin , salicylates).
- 3. Serum T4 levies 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 (μΙυ/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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VI-I				
Value	Unit		Biologi	cal Reference interval
hs 7.10 – 16.16	6 – 12 Months	0.70 - 7.00		
6.00 - 13.80	1 – 10 Years	0.60 - 5.50		
s 4.87-13.20	11 - 19 Years	0.50 - 5.50		
Adults) 4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50		
OF TSH LEVELS DURING PRE	GNANCY (μIU/mL)			
1st Trimester			0.10 - 2.50	
	0.20 - 3.00			
	0.30 - 4.10			
(ths 7.10 – 16.16 s 6.00 - 13.80 rrs 4.87 - 13.20 (Adults) 4.87 - 12.60	ths 7.10 – 16.16 6 – 12 Months 5 6.00 - 13.80 1 – 10 Years rs 4.87 - 13.20 11 – 19 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 5 OF TSH LEVELS DURING PREGNANCY (µIU/mL) 0.10 – 2.50 0.20 – 3.00	ths 7.10 – 16.16 6 – 12 Months 0.70 - 7.00 s 6.00 - 13.80 1 – 10 Years 0.60 - 5.50 rs 4.87 - 13.20 11 – 19 Years 0.50 – 5.50 (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 – 5.50 S OF TSH LEVELS DURING PREGNANCY (µIU/mL) 0.10 – 2.50 0.20 – 3.00	ths 7.10 – 16.16 6 – 12 Months 0.70 - 7.00 s 6.00 - 13.80 1 – 10 Years 0.60 - 5.50 rs 4.87 - 13.20 11 – 19 Years 0.50 – 5.50 (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 – 5.50 S OF TSH LEVELS DURING PREGNANCY (µIU/mL) 0.10 – 2.50 0.20 – 3.00

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



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Test Name Value Unit **Biological Reference interval**

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC EXAMINATION

PHYSICAL EXAMINATION

QUANTITY RECIEVED 10 ml by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

PALE YELLOW PALE YELLOW **COLOUR**

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

TRANSPARANCY HAZY **CLEAR** by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

1.02 1.002 - 1.030 SPECIFIC GRAVITY

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

CHEMICAL EXAMINATION

NEUTRAL

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

PROTEIN NEGATIVE (-ve) 2+

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **SUGAR NEGATIVE (-ve)** Negative

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

рН 5.0 - 7.5by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

BILIRUBIN Negative **NEGATIVE** (-ve)

NITRITE NEGATIVE (-ve) Negative

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. EU/dL 0.2 - 1.0**UROBILINOGEN** Normal

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES Negative **NEGATIVE** (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

BLOOD Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

NEGATIVE (-ve) **NEGATIVE (-ve)** ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

MICROSCOPIC EXAMINATION



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



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RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	4-6	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	8-10	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

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End Of Report



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