

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 : Mr. AMRIK SINGH

AGE/ GENDER : 70 YRS/MALE **PATIENT ID** :1713932

COLLECTED BY :012501020024 : SURJESH REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 02/Jan/2025 10:05 AM BARCODE NO. :01523330 **COLLECTION DATE** : 02/Jan/2025 10:20AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 02/Jan/2025 11:15AM

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

Value Unit **Biological Reference interval Test Name**

CLINICAL CHEMISTRY/BIOCHEMISTRY **CHOLESTEROL: SERUM**

CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP

131.05

mg/dL

OPTIMAL: < 200.0

BORDERLINE HIGH: 200.0 -

239.0

HIGH CHOLESTEROL: > OR =

240.0

INTERPRETATION:

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	CHOLESTEROL IN ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)
DESIRABLE	< 200.0	< 170.0
BORDERLINE HIGH	200.0 – 239.0	171.0 - 199.0
HIGH	>= 240.0	>= 200.0

1. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per National Lipid association - 2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





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ENDOCRINOLOGY THYROID STIMULATING HORMONE (TSH)

THYROID STIMULATING HORMONE (TSH): SERUM 7.228^H µIU/mL 0.35 - 5.50

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

3rd GENERATION, ULTRASENSITIVE

INTERPRETATION:

AGE	REFFERENCE RANGE (μIU/mL)
0 – 5 DAYS	0.70 - 15.20
6 Days – 2 Months	0.70 - 11.00
3 – 11 Months	0.70 - 8.40
1 – 5 Years	0.70 – 7.00
6 – 10 Years	0.60 - 5.50
11 - 15	0.50 - 5.50
> 20 Years (Adults)	0.27 - 5.50
Pi	REGNANCY
1st Trimester	0.10 - 3.00
2nd Trimester	0.20 - 3.00
3rd Trimester	0.30 - 4.10

NOTE:-TSH levels are subjected to circardian 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 concentration.

USE:- TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality.

INCREASED LEVELS:

- 1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.
- $2. \\ Hypothyroid\ patients\ receiving\ insufficient\ thyroid\ replacement\ the rapy.$
- 3. Hashimotos thyroiditis.
- 4.DRUGS: Amphetamines, Iodine containing agents and dopamine antagonist.
- 5. Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED 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.



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8. Pregnancy: 1st and 2nd Trimester **LIMITATIONS:**

 $1. TSH\ may\ be\ normal\ in\ central\ hypothyroidism,\ recent\ rapid\ correction\ of\ hyperthyroidism\ or\ hypothyroidism,\ pregnancy,\ phenytoin\ the rapy.$

2. Autoimmune disorders may produce spurious results.

*** End Of Report **



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