

A PIONEER DIAGNOSTIC CENTRE

■ 0171-2532620, 8222896961 **■** pkrjainhealthcare@gmail.com

NAME : Mr. SANDEEP

AGE/ GENDER : 41 YRS/MALE **PATIENT ID** : 1338029

COLLECTED BY REG. NO./LAB NO. : 122503130001

REFERRED BY **REGISTRATION DATE** : 13/Mar/2025 08:07 AM BARCODE NO. **COLLECTION DATE** : 13/Mar/2025 08:14AM : 12507483 CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 13/Mar/2025 10:51AM

CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

Value Unit **Test Name Biological Reference interval**

CLINICAL CHEMISTRY/BIOCHEMISTRY

LIPID PROFILE: BASIC

CHOLESTEROL TOTAL: SERUM OPTIMAL: < 200.0 278.69^H mg/dL

by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 -

239.0

HIGH CHOLESTEROL: > OR =

240.0

TRIGLYCERIDES: SERUM OPTIMAL: < 150.0 259.08^H mg/dL by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)

BORDERLINE HIGH: 150.0 -

199.0

HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0

HDL CHOLESTEROL (DIRECT): SERUM 47.33 LOW HDL: < 30.0 mg/dL

by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -

60.0 $HIGH\ HDL: > OR = 60.0$

LDL CHOLESTEROL: SERUM OPTIMAL: < 100.0

179.54^H mg/dL by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 100.0 - 129.0

231.36^H

BORDERLINE HIGH: 130.0 -

HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0

mg/dL

OPTIMAL: < 130.0

by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 130.0 - 159.0

BORDERLINE HIGH: 160.0 -

HIGH: 190.0 - 219.0

VERY HIGH: > OR = 220.0

51.82^H mg/dL VLDL CHOLESTEROL: SERUM 0.00 - 45.00by CALCULATED. SPECTROPHOTOMETRY

TOTAL LIPIDS: SERUM 350.00 - 700.00 mg/dL 816.46^H

by CALCULATED, SPECTROPHOTOMETRY

CHOLESTEROL/HDL RATIO: SERUM 5.89^H RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY AVERAGE RISK: 4.50 - 7.0

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



NON HDL CHOLESTEROL: SERUM





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Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.79 ^H	RATIO	MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	5.47 ^H	RATIO	3.00 - 5.00

INTERPRETATION:

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 NLA-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.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.

4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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Value Unit **Biological Reference interval Test Name**

ENDOCRINOLOGY

THYROID FUNCTION TEST: TOTAL

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

THYROXINE (T4): SERUM 9.41 4.87 - 12.60

μgm/dL by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

THYROID STIMULATING HORMONE (TSH): SERUM 0.35 - 5.501.51 μIU/mL 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 triliodothyronine (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	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

- 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
- 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)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μΙU/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



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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	
	RECOM	IMENDATIONS OF TSH LI	VELS DURING PREC	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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