



				(Pathology)	
NAME	: Mrs. SHEILJA JASUJA				
AGE/ GENDER	: 72 YRS/FEMALE		PATIENT ID	: 1776156	
COLLECTED BY	:		REG. NO./LAB NO.	: 012503030024	
REFERRED BY	: SOHANA HOSPITAL		REGISTRATION DATE	: 03/Mar/2025 10:16 AM	
BARCODE NO.	: 01526376		COLLECTION DATE	:03/Mar/2025 10:18AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:03/Mar/2025 12:10PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLINI	CAL CHEMIST	FRY/BIOCHEMIST	RY	
			FILE : BASIC		
CHOLESTEROL TO	TAL · SFRUM	181.1	mg/dL	OPTIMAL: < 200.0	
by CHOLESTEROL OX		101.1	ling/ uL	BORDERLINE HIGH: 200.0 -	
				239.0	
				HIGH CHOLESTEROL: > OR = 240.0	
TRIGLYCERIDES: S		70.24	mg/dL	OPTIMAL: < 150.0	
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -	
				199.0 HIGH: 200.0 - 499.0	
				VERY HIGH: $> OR = 500.0$	
HDL CHOLESTERO	L (DIRECT): SERUM	46.87	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0	
by GELECTIVE INTIDAT				60.0	
				HIGH HDL: $> OR = 60.0$	
LDL CHOLESTEROI by CALCULATED, SPE		120.18	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0	
by CALCOLATED, ST L	error noromerror			BORDERLINE HIGH: 130.0 -	
				159.0	
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0	
NON HDL CHOLEST	TEROL: SERUM	134.23 ^H	mg/dL	OPTIMAL: < 130.0	
by CALCULATED, SPE	CTROPHOTOMETRY	101120	U U	ABOVE OPTIMAL: 130.0 - 159.0	
				BORDERLINE HIGH: 160.0 - 189.0	
				HIGH: 190.0 - 219.0	
	M. CEDIM	14.05		VERY HIGH: $> OR = 220.0$	
VLDL CHOLESTER(by CALCULATED, SPE		14.05	mg/dL	0.00 - 45.00	
TOTAL LIPIDS: SER		432.44	mg/dL	350.00 - 700.00	
by CALCULATED, SPE CHOLESTEROL/HD		3.86	RATIO	LOW RISK: 3.30 - 4.40	
	CTROPHOTOMETRY	0.00	101110	AVERAGE RISK: 4.50 - 7.0	
by CALCULATED, SPE					

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
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Test Name		Value	Unit	Biological Reference interval	
LDL/HDL RATIO: S by Calculated, spe TRIGLYCERIDES/H by Calculated, spe	сткорнотометку DL RATIO: SERUM	2.56 1.5^L	RATIO 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 3.00 - 5.00	

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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 HDL.

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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Test Name		Value	Unit	Biological Reference interval
		CALC	IUM	
CALCIUM: SERUM		8.91	mg/dL	8.50 - 10.60

by ARSENAZO III, SPECTROPHOTOMETRY

INTERPRETATION:-

1.Serum calcium (total) estimation is used for the diagnosis and monitoring of a wide range of disorders including diseases of bone, kidney, parathyroid gland, or gastrointestinal tract.

2. Calcium levels may also reflect abnormal vitamin D or protein levels.

3. The calcium content of an adult is somewhat over 1 kg (about 2% of the body weight). Of this, 99% is present as calcium hydroxyapatite in bones and <1% is present in the extra-osseous intracellular space or extracellular space (ECS).

4. In serum, calcium is bound to a considerable extent to proteins (approximately 40%), 10% is in the form of inorganic complexes, and 50% is present as free or ionized calcium.

NOTE:-Calcium ions affect the contractility of the heart and the skeletal musculature, and are essential for the function of the nervous system. In addition, calcium ions play an important role in blood clotting and bone mineralization.

HYPOCALCEMIA (LOW CALCIUM LEVELS) CAUSES :-

1. Due to the absence or impaired function of the parathyroid glands or impaired vitamin-D synthesis.

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2. Chronic renal failure is also frequently associated with hypocalcemia due to decreased vitamin-D synthesis as well as hyperphosphatemia and skeletal resistance to the action of parathyroid hormone (PTH).

3. NOTE: A characteristic symptom of hypocalcemia is latent or manifest tetany and osteomalacia.

HYPERCALCEMIA (INCREASE CALCIUM LEVELS) CAUSES:-

1. Increased mobilization of calcium from the skeletal system or increased intestinal absorption.

2. Primary hyperparathyroidism (pHPT)

3.Bone metastasis of carcinoma of the breast, prostate, thyroid gland, or lung

NOTE:-Severe hypercalcemia may result in cardiac arrhythmia.



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Test Name		Value	Unit	Dialogical Deference intervo
THYROID STIMUL4	ATING HORMONE (TSH): SERUI	ENDOCRIN ID STIMULATIN M 4.579		Biological Reference interva H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SERUI	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI	H)
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SERUI	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI μIU/mL	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SERUI iescent microparticle immunoas rasensitive	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH): SERUI iescent microparticle immunoas rasensitive AGE	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI µIU/mL REFFERENCE RANGE (µ	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUNOAS RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUNOAS RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	H) 0.35 - 5.50
THYROID STIMUL4	ATING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUNOASS RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUNOAS RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUNOASS RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ENDOCRING ID STIMULATING M 4.579 SAY)	OLOGY G HORMONE (TSI μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN Brd GENERATION, ULT	ATING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUNOASS RASENSITIVE AGE 0-5 DAYS 6 Days - 2 Months 3 - 11 Months 1 - 5 Years 6 - 10 Years 11 - 15 > 20 Years (Adults)	ENDOCRIN ID STIMULATIN M 4.579	OLOGY G HORMONE (TSI μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	H) 0.35 - 5.50
THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH): SERUI IESCENT MICROPARTICLE IMMUNOAS RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ENDOCRING ID STIMULATING M 4.579 SAY)	OLOGY G HORMONE (TSI μIU/mL REFFERENCE RANGE (μ 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	H) 0.35 - 5.50

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USE:- 1SH controls biosynthesis and release of thyroid harmones 14 & 13. 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 therapy.

3. Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine 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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	Dr. Vinay Chor	bra 🛛 Dr. Yugar	m Chopra

8.Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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Fest Name		Value	Unit	Biological Reference interval	
INTERPRETATION:-	IESCENT MICROPARTICLE IMMUNO	455A Y)			
1.Ingestion of Vitan	SED VITAMIN B12	1.Pregnancy	DECREASED VITAMIN	NB12	
2.Ingestion of Estro			rin, Anti-convulsants	Colchicine	
3.Ingestion of Vitan		3.Ethanol Iges			
4.Hepatocellular in		4. Contracepti	4. Contraceptive Harmones		
5.Myeloproliferativ	e disorder	5.Haemodialysis			
6.Uremia			6. Multiple Myeloma		
	amin) is necessary for hematop tained only from animal proteir			ation	
				n and returning it to the liver; very little is	
excreted.					
4.Vitamin B12 deficie	ency may be due to lack of IF sec I intestinal diseases).	cretion by gastric mucos	a (eg, gastrectomy, g	jastric atrophy) or intestinal malabsorption (eg	
		tic anemia, glossitis, pe	ripheral neuropathy.	weakness, hyperreflexia, ataxia, loss of	
proprioception, poor	coordination, and affective bel	navioral changes. These	manifestations may	occur in any combination; many patients have	
he neurologic defect	ts without macrocytic anemia.				
	nic acid and homocysteine leve	le are also elevated in vi	tamin P12 deficiency	(states	

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.

*** End Of Report ***





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