



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. KRISHAN LAL VERMA			
AGE/ GENDER	: 69 YRS/MALE	PA	TIENT ID	: 1551704
COLLECTED BY	: SURJESH	RI	G. NO./LAB NO.	: 012407170024
REFERRED BY	:	RI	GISTRATION DATE	: 17/Jul/2024 10:29 AM
BARCODE NO.	:01513300	CC	LLECTION DATE	: 17/Jul/2024 10:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	PORTING DATE	: 17/Jul/2024 11:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD,	Value	Unit	Biological Reference interval
		Value	Unit Y/BIOCHEMISTR	
		Value	Y/BIOCHEMISTR	

A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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		y & Microbiology) MD (Pathology)		
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Test Name		Value	Unit	Biological Reference interval
		CALCIU	M	
CALCIUM: SERUM		8.6	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.

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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by CMIA (CHEMILUMI	TI ING HORMONE (TSH): SERU NESCENT MICROPARTICLE	Value ENDOCRINO HYROID STIMULATING JM 33.878 ^H	DLOGY	
THYROID STIMULAT	ING HORMONE (TSH): SERUNESCENT MICROPARTICLE	ENDOCRING	DLOGY HORMONE (TSH) µIU/mL	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	ING HORMONE (TSH): SERU Nescent microparticle rasensitive AGE	ENDOCRING	DLOGY HORMONE (TSH) µIU/mL	0.35 - 5.50 µlU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS	ENDOCRING	DLOGY HORMONE (TSH) µIU/mL REFFERENCE RANGE (0.70 – 15.20	0.35 - 5.50 µlU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ENDOCRING	DLOGY HORMONE (TSH) µIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00	0.35 - 5.50 µlU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	ING HORMONE (TSH): SERU NESCENT MICROPARTICLE RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months	ENDOCRING	DLOGY HORMONE (TSH) µIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50 µlU/mL)
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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.



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7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 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.

*** End Of Report **?



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