



	MD (Patho	y Chopra blogy & Microbiology) & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. AMARJEET KAUI	R WALIA		
AGE/ GENDER	: 70 YRS/FEMALE	PATI	ENT ID	: 1563242
COLLECTED BY	: SURJESH	REG. 1	NO./LAB NO.	: 012407280036
REFERRED BY	:	REGIS	STRATION DATE	: 28/Jul/2024 10:41 AM
BARCODE NO.	:01513971	COLL	ECTION DATE	: 28/Jul/2024 11:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 28/Jul/2024 11:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON R	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN (HB) by calorimetric NTERPRETATION:-		11 <sup>L</sup>	gm/dL	12.0 - 16.0
Hemoglobin is the pro- tissues back to the lu A low hemoglobin lev <b>ANEMIA (DECRESED H</b> 1) Loss of blood (trau 2) Nutritional deficien 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemoglo <b>POLYCYTHEMIA (INCR</b> 1) People in higher a 2) Smoking (Secondar 3) Dehydration produ 4) Advanced lung dise 5) Certain tumors 6) A disorder of the b 7) Abuse of the drug of	ngs. rel is referred to as ANEMI/ HAEMOGLOBIN): Imatic injury, surgery, blee ncy (iron, vitamin B12, fola lems (replacement of bone d blood cell synthesis by ch bbin structure (sickle cell a REASED HAEMOGLOBIN): Ititudes (Physiological) ry Polycythemia) uces a falsely rise in hemoge ease (for example, emphysione one marrow known as poly	A or low red blood count. eding, colon cancer or stomach ate) e marrow by cancer) hemotherapy drugs anemia or thalassemia). globin due to increased haemo ema) ycythemia rubra vera, athletes for blood doping purp	n ulcer)	odys tissues and returns carbon dioxide from

## NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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







	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cons	-	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. AMARJEET KAUR WAL	IA		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY	BIOCHEMISTR	Y
		GLUCOSE FAS	ring (f)	
GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		110.45 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g	H AMERICAN DIABETES ASSOCIAT ucose level below 100 mg/dl is c ucose level between 100 - 125 m	considered normal.	lucose intolerant or	prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. 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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	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		
		CALC	IUM			
CALCIUM: SERUM		9.41	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.

# \*\*\* End Of Report \*\*\*





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