



	r. Vinay Chopra Dr. Yugan D (Pathology & Microbiology) nairman & Consultant Pathologist CEO & Consultant		(Pathology)	
AME : Mr. V.N. SI	IARMA			
AGE/ GENDER : 78 YRS/MA	LE PAT	TIENT ID	: 1704078	
COLLECTED BY : SURJESH	REG	. NO./LAB NO.	: 012412200016	
REFERRED BY :	REG	ISTRATION DATE	: 20/Dec/2024 10:21 AM	
BARCODE NO. : 01522712	COL	LECTION DATE	: 20/Dec/2024 11:02AM	
CLIENT CODE. : KOS DIAGN	IOSTIC LAB REP	ORTING DATE	: 20/Dec/2024 11:46AM	
CLIENT ADDRESS : 6349/1, N	CHOLSON ROAD, AMBALA CANTT			
Fest Name	Value	Unit	Biological Reference interval	
by CALORIMETRIC NTERPRETATION:- Hemoglobin is the protein molecule issues back to the lungs.	in red blood cells that carries oxygen fr	om the lungs to the bo	odys tissues and returns carbon dioxide from t	
A low hemoglobin level is referred t	o as ANEMIA or low red blood count.			
I) Loss of blood (traumatic injury, s	surgery, bleeding, colon cancer or stoma	ich ulcer)		
 Nutritional deficiency (iron, vitar Bone marrow problems (replacer 	nin B12, folate) nent of bone marrow by cancer)			
 Suppression by red blood cell system 	thesis by chemotherapy drugs			
5) Kidney failure 5) Abnormal hemoglobin structure	(sickle cell anemia or thalassemia).			
POLYCYTHEMIA (INCREASED HAEMO I) People in higher altitudes (Physi				
2) Smoking (Secondary Polycythem)	a)			
 B) Dehydration produces a falsely r Advanced lung disease (for exam 	ise in hemoglobin due to increased haer	noconcentration		
5) Certain tumors				
 A disorder of the bone marrow k Abuse of the drug erythropoetin 	(Epogen) by athletes for blood doping pu	urposes (increasing the	amount of oxygen available to the body by	
hemically raising the production of	of red blood cells).	-		

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NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. V.N. SHARMA			
AGE/ GENDER	: 78 YRS/MALE	PAT	ENT ID	: 1704078
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 20/Dec/2024 12:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY		RY
		GLUCOSE RAN	DOM (R)	
			mg/dL	NORMAL: < 140.00

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A random plasma glucose level below 140 mg/dl is considered normal.
 A random glucose level between 140 - 200 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prnadial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A random glucose level of above 200 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.



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

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KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



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CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD	Value	Unit	Biological Reference interv
		CREATINI	NE	
		UKEATINI		
CREATININE: SER by enzymatic, spec		5.23 ^H	mg/dL	0.40 - 1.40
				0.40 - 1.40
CREATININE: SER by ENZYMATIC, SPEC				0.40 - 1.40



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CA	LCIUM	
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.

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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	Biological Reference interval
		PHOS	PHOROUS	
PHOSPHOROUS: SE	ERUM	4.84 ^H	mg/dL	2.5 - 4.5

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PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY

INTERPREATION:-

1. Eighty-eight percent of the phosphorus contained in the body is localized in bone in the form of hydroxyapatite. The remainder is involved in intermediary carbohydrate metabolism and in physiologically important substances such as phospholipids, nucleic acids, and adenosine triphosphate (ATP).

2. Phosphorus occurs in blood in the form of inorganic phosphate and organically bound phosphoric acid. The small amount of extracellular organic phosphorus is found exclusively in the form of phospholipids.

3. Serum phosphate concentrations are dependent on meals and variation in the secretion of hormones such as parathyroid hormone (PTH) and may vary widely.

DECREASED (HYPOPHOSPHATEMIA):-

1.Shift of phosphate from extracellular to intracellular.

2.Renal phosphate wasting

3.Loss from the gastrointestinal tract.

4.Loss from intracellular stores.

INCREASED (HYPERPHOPHATEMIA):-

1. Inability of the kidneys to excrete phosphate.

2. Increased intake or a shift of phosphate from the tissues into the extracellular fluid.

SIGNIFICANCE:-

1.Phosphate levels may be used in the diagnosis and management of a variety of disorders including bone, parathyroid and renal disease. 2. Hypophosphatemia is relatively common in hospitalized patients. Levels less than 1.5 mg/dL may result in muscle weakness, hemolysis of red cells, coma, and bone deformity and impaired bone growth.

3. The most acute problem associated with rapid elevations of serum phosphate levels is hypocalcemia with tetany, seizures, and hypotension. Soft tissue calcification is also an important long-term effect of high phosphorus levels.

4.Phosphorus levels less than 1.0 mg/dL are potentially life-threatening and are considered a critical value.

NOTE: Phosphorus has a very strong biphasic circadian rhythm. Values are lowest in the morning, peak first in the late afternoon and peak again in the late evening. The second peak is quite elevated and results may be outside the reference range



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Test Name		Value	Unit	Biological Reference interval
	F	LECTROLYTES CON	PLETE PROFILE	
SODIUM: SERUM		146.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV) POTASSIUM: SERUM	A	5.06 ^H	mmol/L	3.50 - 5.00
	E ELECTRODE)			
by ISE (ION SELECTIVI CHLORIDE: SERUM by ISE (ION SELECTIVI INTERPRETATION:- SODIUM:		109.95	mmol/L	90.0 - 110.0
CHLORIDE: SERUM by ISE (ION SELECTIVI SODIUM:- Sodium is the major of balance & to transmit HYPONATREMIA (LOV 1. Low sodium intake. 2. Sodium loss due to 3. Diuretics abuses. 4. Salt loosing nephro 5. Metabolic acidosis 6. Adrenocortical issu 7. Hepatic failure. HYPERNATREMIA (INC 1. Hyperapnea (Prolor 2. Diabetes insipidus 3. Diabetic acidosis 4. Cushings syndrome 5. Dehydration	E ELECTRODE)	Its primary function in th equate water and iadequ SES:-	e body is to chemically ate salt replacement.	90.0 - 110.0 y maintain osmotic pressure & acid base

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4.Hemolysis of blood

*** End Of Report ***



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

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