

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Pathology & Micr	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. NARESH SHARMA					
AGE/ GENDER	: 66 YRS/MALE		PATIENT ID	: 1699726		
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012412150024		
REFERRED BY	:		REGISTRATION DATE	: 15/Dec/2024 11:55 AM		
BARCODE NO.	: 01522474		COLLECTION DATE	: 17/Dec/2024 11:49AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 15/Dec/2024 12:49PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT				
Test Name		Value	Unit	Biological Reference inte	erval	
		HAEMA	TOLOGY			
	COMP		OOD COUNT (CBC)			
RED BLOOD CELLS	(RBCS) COUNT AND INDICES					
HAEMOGLOBIN (H	B)	12.6	gm/dL	12.0 - 17.0		
by CALORIMETRIC RED BLOOD CELL (1	RBC) COUNT	5.3 ^H	Millions	/cmm 3.50 - 5.00		
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE						
PACKED CELL VOLU	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	41.7	%	40.0 - 54.0		
MEAN CORPUSCUL	AR VOLUME (MCV) utomated hematology analyzer	78.6 ^L	fL	80.0 - 100.0		
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	23.7 ^L	pg	27.0 - 34.0		
	UTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	30.2 ^L	g/dL	32.0 - 36.0		
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER					
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	17.1 ^H	%	11.00 - 16.00		
RED CELL DISTRIBUTION WIDTH (RDW-SD)		51.4	fL	35.0 - 56.0		
by CALCULATED BY A MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	14.83	RATIO	BETA THALASSEMIA TR		
by CALCULATED		14.05	RATIO	13.0	AII. <	
				IRON DEFICIENCY ANE	MIA:	
GREEN & KING IND	EX	25.28	RATIO	>13.0 BETA THALASSEMIA TR	AIT:<	
by CALCULATED				65.0		
				IRON DEFICIENCY ANEN 65.0	/IA: >	
WHITE BLOOD CEI	LLS (WBCS)			00.0		
FOTAL LEUCOCYTE	COUNT (TLC)	5060	/cmm	4000 - 11000		
•	' BY SF CUBE & MICROSCOPY LOOD CELLS (nRBCS)	NIL		0.00 - 20.00		
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER			%	0.00 20.00		
by AUTOMATED 6 PAF	LOOD CELLS (nRBCS) %	NIL		< 10 %		





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Page 1 of 8







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. NARESH SHARMA **AGE/ GENDER** : 66 YRS/MALE **PATIENT ID** :1699726 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012412150024 **REFERRED BY REGISTRATION DATE** : 15/Dec/2024 11:55 AM : **BARCODE NO.** :01522474 **COLLECTION DATE** :17/Dec/2024 11:49AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :15/Dec/2024 12:49PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 40^L % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 48^H LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 7H EOSINOPHILS % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 2024 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2429 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 354 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 253 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 275000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.27 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 73000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 26.711.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.9% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name	Value	Unit	Biological Reference interval





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MD (Pathology & Microbiology)

Chairman & Consultant Pathologist



Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

PERIPHERAL BLOOD SMEAR

TEST NAME:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

PERIPHERAL BLOOD FILM/SMEAR (PBF)

RED BLOOD CELLS (RBC'S):

RBC's mostly appear normocytic & normochromic. No polychromatic cells or normoblastic cells seen.

WHITE BLOOD CELLS (WBC'S):

No immature leucocytes seen.

PLATELETS:

Platelets are adequate on smear

HEMOPARASITES:

NOT SEEN

IMPRESSION:

Normocytic normochromic picture.





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LIENT CODE.	: KOS DIAGNOSTIC LA	AB R	EPORTING DATE	: 15/Dec/2024 01:11PM
LIENT ADDRESS	: 6349/1, NICHOLSO	I ROAD, AMBALA CANTT		
fest Name		Value	Unit	Biological Reference interval
ALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	8.93	mg/dL	8.50 - 10.60
	r gastrointestinal tract.	r the diagnosis and monitor itamin D or protein levels.	ng of a wide range of di	sorders including diseases of bone, kidney,
. Calcium levels ma .The calcium conter nd <1% is present in . In serum, calcium resent as free or ion IOTE:- Calcium ions a	t of an adult is somewh n the extra-osseous intra is bound to a consideral nized calcium. affect the contractility of	acellular space or extracellul le extent to proteins (appro	ar space (ECS). ximately 40%), 10% is in nusculature, and are esse	9% is present as calcium hydroxyapatite in bone the form of inorganic complexes, and 50% is ential for the function of the nervous system. In

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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

2. Primary hyperparathyroidism (pHPT)

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



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NOTE:-Severe hypercalcemia may result in cardiac arrhythmia.

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		РНО	SPHOROUS	
PHOSPHOROUS: SERUM		2.65	mg/dL	2.5 - 4.5

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANT	r	
Test Name		Value	Unit	Biological Reference interval
		ENDOC	CRINOLOGY	
	INTACT	PARATHY	ROID HORMONE (PT	Ή)
	DID HORMONE (PTH): SERUM	53.1	pg/mL	9.5 - 75.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

Intrepretation:-

Parathyroid hormone (PTH) is produced and secreted by the parathyroid glands, which are located along the posterior aspect of the thyroid gland. The serum calcium level regulates PTH secretion via negative feedback through the parathyroid calcium sensing receptor (CASR). Decreased calcium levels stimulate PTH release. Secreted PTH interacts with its specific type II G-protein receptor, causing rapid increases in renal tubular reabsorption of calcium and decreased phosphorus reabsorption. It also participates in long-term calciostatic functions by enhancing mobilization of calcium from bone and increasing renal synthesis of 1,25-dihydroxy vitamin D, which, in turn, increases intestinal calcium absorption.

The assay is useful for:

- Differential diagnosis of hypercalcemia
- Diagnosis of primary, secondary, and tertiary hyperparathyroidism
- Diagnosis of hypoparathyroidism
- Monitoring end-stage renal failure patients for possible renal osteodystrophy

Interpretation of results:

- An (appropriately) low PTH level and high phosphorus level in a hypercalcemic patient suggests that the hypercalcemia is not caused by PTH or PTH-like substances.
- An (appropriately) low PTH level with a low phosphorus level in a hypercalcemic patient suggests the diagnosis of paraneoplastic hypercalcemia.
- A low or normal PTH in a patient with hypocalcemia suggests hypoparathyroidism.

Low serum calcium and high PTH levels in a patient with normal renal function suggest resistance to PTH action (pseudohypoparathyroidism type 1a, 1b, 1c, or 2) or, very rarely, bio-ineffective PTH.

Elevated PTH value with a normal serum calcium in many cases in India is due to secondary hyperparathyroidism, primary cause being Vitamin D deficiency.





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CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD,	AMBALA CANTT				
Test Name			Value		Unit	Biological Reference interv	val
URINE VOLUME: 24 by SPECTROPHOTOM PROTEINS: 24 HOU by BIURET, SPECTRO INTERPRETATION:	IETRY JRS URINE		2000 287.4^H		mL mg/ 24 HOU	URS 25 - 160	
TYPES OF PI	ROTEINURIA	TOTAL P	ROTEINS IN mg/2	A HOURS	CO	NDITIONS	
MINIMAL PR	ROTEINURIA:	15	0 - 500 mg/24 ho	ours	Interstial Nepl	onephritis, Chronic nritis, Renal Tubular se, Postural	
MODERATE P	ROTEINURIA:	500) - 1000 mg/24 ho	ours	Nephrosclerosi	s, Multiple Myeloma, bathy, Renal Calculi	
HEAVY PRC	DTEINURIA:	1000	0 - 3000 mg/24 h	nours	Nephrotic Sync Progress Glomerulon mellitus, Lupus like Pencillamin	Irome, Acute Rapidly sive & Chronic ephritis, Diabetes erythematosus, Druga ne, Heavy metals like & Mercury.	

NOTE:

1. Excreation of total protein in individuals is highly variable with or without kidney disease.

2. Conditions affecting protein excreation other than kidney didease are urinary tract infection, diet, mensturation & physical activity.

COMMENT:

1. Diagnosis of kidney disease and response to therapy is usually obtained by quatitattively analyzing the amount of protein excreated in urine over a 24 hour period.

*** End Of Report ***





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