

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (I	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
NAME	: Mr. SUKHBIR				
AGE/ GENDER	: 42 YRS/MALE		PATIENT ID	: 1821485	
COLLECTED BY	:		REG. NO./LAB NO.	: 012504070069	
REFERRED BY	:		REGISTRATION DATE	: 07/Apr/2025 05:26 PM	
BARCODE NO.	:01528546		COLLECTION DATE	: 07/Apr/2025 05:29PM	
CLIENT CODE.	: KOS DIAGNOSTIC	LAB	REPORTING DATE	: 07/Apr/2025 08:04PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval	
CLINICAL CHEMISTRY/BIOCHEMISTRY					
URIC ACID					
URIC ACID: SERUN by URICASE - OXIDASE		5.5	mg/dL	3.60 - 7.70	
INTERPRETATION:-					
1.GOUT occurs when high levels of Uric Acid in the blood cause crystals to form & accumulate around a joint. 2.Uric Acid is the end product of purine metabolism. Uric acid is excreted to a large degree by the kidneys and to a smaller degree in the					
intestinal tract by microbial degradation.					
INCREASED:- (A).DUE TO INCREASED PRODUCTION:-					
1. Idiopathic primary gout.					
2.Excessive dietary purines (organ meats,legumes,anchovies, etc). 3.Cytolytic treatment of malignancies especially leukemais & lymphomas.					
4.Polycythemai vera & myeloid metaplasia.					
5.Psoriasis. 6.Sickle cell anaemia etc.					
(B).DUE TO DECREASED EXCREATION (BY KIDNEYS)					
1.Alcohol ingestion. 2.Thiazide diuretics.					
3.Lactic acidosis.					
4.Aspirin ingestion (less than 2 grams per day). 5.Diabetic ketoacidosis or starvation.					
6.Renal failure due to					
DECREASED:- (A).DUE TO DIETARY D	FEICIENCY				
1. Dietary deficiency of Zinc, Iron and molybdenum.					
2.Fanconi syndrome & Wilsons disease. 3.Multiple sclerosis.					
4. Syndrome of inappropriate antidiuretic hormone (SIADH) secretion & low purine diet etc.					
(B). DUE TO INCREA'SED EXCREATION 1. Drugs: - Probenecid, sulphinpyrazone, aspirin doses (more than 4 grams per day), corticosterroids and ACTH, anti-coagulants and estrogens etc.					
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KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist CEO & Consultant Pathologist NAME : Mr. SUKHBIR AGE/ GENDER : 42 YRS/MALE **PATIENT ID** :1821485 **COLLECTED BY** :012504070069 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Apr/2025 05:40 PM **BARCODE NO.** :01528546 **COLLECTION DATE** :07/Apr/2025 05:42PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Apr/2025 08:33PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit Test Name **Biological Reference interval** VITAMINS VITAMIN D/25 HYDROXY VITAMIN D3 VITAMIN D (25-HYDROXY VITAMIN D3): SERUM ng/mL DEFICIENCY: < 20.0 18.6^L by CLIA (CHEMILUMINESCENCE IMMUNOASSAY) INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 INTERPRETATION: DEFICIENT: < 20 ng/mL INSUFFICIENT: 21 - 29 ng/mL 30 - 100 **PREFFERED RANGE:** ng/mL INTOXICATION: > 100 ng/mL 1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4.Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.

*** End Of Report ***



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