



Patient Name	: Mr.NAGARAJ
Age/Gender	: 20 Y 0 M 0 D /M
UHID/MR No	: DSDU.0000003898
Visit ID	: DSDUOPV5515
Ref Doctor	: Dr S L AHMAD BAMS
IP/OP NO	:

Collected	: 15/Sep/2024 01:29PM
Received	: 16/Sep/2024 12:31PM
Reported	: 16/Sep/2024 01:11PM
Status	: Final Report
Client Name	: PCC SINDHANUR
Center location	: Sindhanur,Sindhanur

### DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Interval	Method
CALCIUM , SERUM	9.40	mg/dL	8.8-10.6	Arsenazo III



Dr Priya Murthy  
 M.B.B.S,M.D(Pathology)  
 Consultant Pathologist

SIN No:BI21751258

This test has been performed at Apollo Health & Lifestyle Ltd, RRL BANGALORE Laboratory

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**Apollo Health and Lifestyle Limited**

(CIN - U85110TG2000PLC115819)

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Status	: Final Report
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Center location	: Sindhanur,Sindhanur

### DEPARTMENT OF IMMUNOLOGY

Test Name	Result	Unit	Bio. Ref. Interval	Method
VITAMIN D (25 - OH VITAMIN D) , SERUM	23.6	ng/mL	30 -100	CLIA

#### Comment:

#### BIOLOGICAL REFERENCE RANGES

VITAMIN D STATUS	VITAMIN D 25 HYDROXY (ng/mL)
DEFICIENCY	<10
INSUFFICIENCY	10 – 30
SUFFICIENCY	30 – 100
TOXICITY	>100

The biological function of Vitamin D is to maintain normal levels of calcium and phosphorus absorption. 25-Hydroxy vitamin D is the storage form of vitamin D. Vitamin D assists in maintaining bone health by facilitating calcium absorption. Vitamin D deficiency can also cause osteomalacia, which frequently affects elderly patients.

Vitamin D Total levels are composed of two components namely 25-Hydroxy Vitamin D2 and 25-Hydroxy Vitamin D3 both of which are converted into active forms. Vitamin D2 level corresponds with the exogenous dietary intake of Vitamin D rich foods as well as supplements. Vitamin D3 level corresponds with endogenous production as well as exogenous diet and supplements. Vitamin D from sunshine on the skin or from dietary intake is converted predominantly by the liver into 25-hydroxy vitamin D, which has a long half-life and is stored in the adipose tissue. The metabolically active form of vitamin D, 1,25-di-hydroxy vitamin D, which has a short life, is then synthesized in the kidney as needed from circulating 25-hydroxy vitamin D. The reference interval of greater than 30 ng/mL is a target value established by the Endocrine Society.

#### Decreased Levels:

Inadequate exposure to sunlight.

Dietary deficiency.

Vitamin D malabsorption.

Severe Hepatocellular disease.

Drugs like Anticonvulsants.

Nephrotic syndrome.

#### Increased levels:

Vitamin D intoxication.

Test Name	Result	Unit	Bio. Ref. Interval	Method
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Dr Priya Murthy  
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Consultant Pathologist



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#### DEPARTMENT OF IMMUNOLOGY

VITAMIN B12 , SERUM	98.9	pg/mL	190-900	CLIA
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**Comment:**

Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. A significant increase in RBC MCV may be an important indicator of vitamin B12 deficiency.

Patients taking vitamin B12 supplementation may have misleading results. A normal serum concentration of B12 does not rule out tissue deficiency of vitamin B12 . The most sensitive test for B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum B12 concentrations are normal.

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



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#### TERMS AND CONDITIONS GOVERNING THIS REPORT

The reported results are for information and interpretation of the referring doctor or such other medical professionals, who understand reporting units, reference ranges and limitations of technologies.

Laboratories not be responsible for any interpretation whatsoever.

It is presumed that the tests performed are, on the specimen / sample being to the patient named or identified and the verifications of the particulars have been cleared out by the patient or his / her representative at the point of generation of said specimen.

The reported results are restricted to the given specimen only. Results may vary from lab to lab and from time to time for the same parameter for the same patient.

Assays are performed in accordance with standard procedures, The reported results are dependent on individual assay methods / equipment used and quality of specimen received.

This report is not valid for medico legal purposes.

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