

64/2100, St Francis Xavier Church Rd, Kathrikadavu, Kaloor, Cochin, Ernakulam, Kerala 682017 Ph: 0484-2985599, 8925867850



SID No : 113015730

Branch : COCHIN Baby, ETHAN BIJO Age / Sex: 9 Y / Male

Ref. By : CAREWELL DIAGNOSTIC CENTER - MANAKKADU

Patient ID : A130106712

Collected Date: 19/08/2024 / 15:19

Received Date: 19/08/2024 / 15:26

Reported Date: 19/08/2024 / 17:20

Final Test Report

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Test Name / Specimen

Result

Units

Reference Range / Method

IMMUNOLOGY

25 Hydroxyvitamin D

Serum

7.9

ng/ml

Deficiency: <= 20 Insufficiency: 21 - 29

Sufficiency: >= 30

ECLIA

mments: Vitamin D is a fat-soluble steroid hormone precursor that is mainly produced in the skin by exposure to sunlight. Vitamin D is biologically inert and must undergo two successive hydroxylations in the liver and kidney to become the biologically active 1,25 - dihydroxyvitamin D. It is commonly agreed that 25hydroxyvitamin D is the metabolite to determine the overall vitamin D status as it is the major storage form of vitamin D in the human body. This primary circulating form of vitamin D is present human body with levels approximately 1000 fold greater than the circulating 1,25-dihydroxyvitamin D. The half-life of circulating 25hydroxyvitamin D is 2-3 weeks.

Vitamin D is essential for: Bone health. In children, severe deficiency leads to bone-malformation, known as rickets. Milder degrees of insufficiency are believed to

cause reduced efficiency in the utilization of dietary calcium.

Vitamin D deficiency causes: Muscle weakness in elderly, the risk of falling has been attributed to the effect of vitamin D on muscle function. Vitamin D deficiency is a common cause of secondary hyperparathyroidism. Elevations of PTH levels, especially in elderly vitamin D deficient adults can result in osteomalacia, increased bone turnover, reduced bone mass and risk of bone fractures. Low vitamin D (25-OH) concentrations are also associated with lower bone mineral density. The results should always be assessed in conjunction with the patient's medical history, clinical examination and other findings.

Thyroid function tests

T3 Serum	1.21	ng/ml	0.94 - 2.41 ECLIA
T4 Serum	8.22	ug/dl	6.4 - 13.3 ECLIA
TSH Serum	3.070	mIU/mL	0.700 - 6.400 ECLIA

te: TSH has a diurnal rhythm, peaks at 2.00-4.00 am and has lowest level at 5.00-6.00 pm with ultradian variation. Hence thyroid test is only a snapshot of what is occurring within a dynamic system and for treatment purpose, the results should be accessed in conjugation with patient medical history, clinical examination & other tests/finding for confirmation. Many multivitamins (such as Vit B7), supplements (especially hair, skin, and nail) and over-the-counter and prescription medications may affect thyroid test results, and their use should be discussed with the healthcare practitioner prior to testing. When a high serum TSH concentration and normal free T4 is found, repeat measurement 3-6 months later along with thyroid antibodies after excluding nonthyroidal illness and drug interference is recommended.

Dr.R.Karthick Prabhu MD., (Path)

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Consultant Pathologist



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Address: BIOLINE LABORATORY-COCHIN, St Francis Xavier Church Rd, Kathrikadavu, Kaloor, Cochin, Ernakulam, Kerala 682017. Ph. 0484-298 5599/406 5599 Mobile: 89258-67850,,