

LABORATORY REPORT

Name : **ESSA ISMAIL HUSSAIN MOOSA ALI** File. No. : **AAL02-403572**
DOB/Gender : **27-05-2013 (11 Yrs 1 Month 6 Days/Male)** Referral Doctor : **Dr. Humaira Mumtaz**
Lab No. : **22241850063** Referral Clinic : **Peshawar(Irham Medical Center)**
Request Date : **03-07-2024 11:37:36** Clinic File No :
Insurance : **NEXTCARE**

CLINICAL BIOCHEMISTRY

Test Name	Result	Units	Ref. Range	Method
Iron	79.10	µg/dL	28 -112	Colorimetric-FerroZine

Serum iron levels can show a diurnal variation. Iron (non-heme) measurements are used in the diagnosis and treatment of diseases such as iron deficiency anemia, hemochromatosis and chronic renal disease. Please note Reference Range Reviewed w.ef 15/10/23 .

Total Iron Binding Capacity (TIBC)	368.10	ug/dL	100 - 400	Ferrozine-Calculation
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In iron deficiency anemia the TIBC is elevated and the transferrin saturation is lowered to 15 % or less. Low serum iron associated with low TIBC is characteristic of the anemia of chronic disorders, malignant tumors, and infections. Please note Reference Range Reviewed w.ef 15/10/23 .

Vitamin D, 25-OH (Total)	25.70^L	ng/mL	Deficiency: < 20 Insufficiency: 20 - 30 Sufficiency: 30 - 50 Optimal: 50 - 100 Excess: >100 Toxicity: >150	ECLIA
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Conversion Formula: (Concentration in ng/mL) x (2.5) = nmol/L.

Vitamin D3 and Vitamin D2 are the most abundant forms of Vitamin D in the body. Vitamin D3 is synthesized in the skin from 7-dehydrocholesterol in response to sunlight. The best nutrition sources of D3 are oily fish primary salmon and mackerel. Vitamin D2' nutrition sources are from some vegetables, yeast and fungi. The vegetarian diet is abundant in Vitamin D2.

Vitamin D (D3, D2 and metabolites) is converted to 25-hydroxyvitamin D in the liver. The measurement of 25-OH vitamin D concentration in the serum or plasma is the best indicator of vitamin D nutritional status.

Vitamin D deficiency is commonly treated with vitamin D2 or D3 medications. Fortified foods and nutrition supplements may contain either form. Please note

Reference Range Reviewed w.ef 15/10/23 .

Remarks:

Test result to be interpreted in the light of clinical history and to be investigated further if necessary.

Sample Type : Serum

----- End Of Report -----

These tests are accredited under ISO 15189:2012 unless specified by (*)

Sample processed on the same day of receipt unless specified otherwise.

Test results pertains only the sample tested and to be correlated with clinical history.

Reference range related to Age/Gender.

Dr. Solmaz Siddiqui
Laboratory Director
DHA/LS/248469

Patient Sample Collected On : 02-07-2024 19:00:00
Authenticated On : 03-07-2024 14:16:02

Received On : 03-07-2024 11:39:00
Released On : 03-07-2024 14:41:54

Wasik

Wasik Hasan Tisekar
Laboratory Technician
DHA-P-0039673