

LABORATORY REPORT

Name : **DOUNIA HAITHAM KHOUZAM** File. No. : **AAL02-354170**
DOB/Gender : **23-11-1989 (34 Yrs 2 Month /Female)** Referral Doctor : **Dr. Enomen Goodluck Ekata**
Lab No. : **22240240296** Referral Clinic : **Peshawar(Irham Medical Center)**
Request Date : **24-01-2024 21:08:12** Clinic File No : **37336**
Insurance : **No**

HAEMATOLOGY & COAGULATION

Test Name	Result	Units	Ref. Range	Method
<u>COMPLETE BLOOD COUNT (CBC) WITH DIFFERENTIAL</u>				
RBC	4.44	10 ¹² /L	3.80 - 4.80	Hydrodynamic focusing (DC Detection)
Haemoglobin	11.4 ^L	g/dl	12.0 - 15.0	Photometry-SLS
HCT	35.7 ^L	%	36.0 - 46.0	Hydrodynamic focusing (HF)
MCV	80.4 ^L	fl	83.0 - 101.0	Calculation
MCH	25.7 ^L	pg	27-32	Calculation
MCHC	31.9	g/dL	31.5 - 34.5	Calculation
Platelet Count	258	10 ³ /uL	150-400	HF (DCD)
WBC	5.65	10 ³ /uL	4.00 - 10.00	Flow Cytometry
<u>DIFFERENTIAL COUNT (%)</u>				
Neutrophils	36.3 ^L	%	40.0 - 80.0	Flow Cytometry
Lymphocytes	48.1 ^H	%	20.0 - 40.0	Flow Cytometry
Monocytes	11.2 ^H	%	2-10	Flow Cytometry
Eosinophils	3.2	%	1 - 6	Flow Cytometry
Basophils	1.2	%	<1-2	Flow Cytometry
Band Forms	0.0	%	< 6	Flow Cytometry
<u>DIFFERENTIAL COUNT (ABSOLUTE)</u>				
Neutrophils (Absolute)	2.05	10 ³ /uL	2.00 - 7.00	Calculation
Lymphocytes (Absolute)	2.72	10 ³ /uL	1.00 - 3.00	Calculation
Monocytes (Absolute)	0.63	10 ³ /uL	0.20 - 1.00	Calculation
Eosinophils (Absolute)	0.18	10 ³ /uL	0.02 - 0.50	Calculation
Basophils (Absolute)	0.07	10 ³ /uL	0.02 - 0.10	Calculation
Band Forms (Absolute)	0.00	10 ³ /uL	< 0.66	Calculation

Remarks:

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

Sample Type : EDTA WB

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

H/L Collected On : 24-01-2024 20:00:00

Authenticated On : 24-01-2024 23:48:24

Received On : 24-01-2024 21:12:00

Released On : 24-01-2024 23:53:19



Esmeralda Obenita

Lab Incharge

DHA/LS/2992011/ 241430

LABORATORY REPORT

Name	: DOUNIA HAITHAM KHOUZAM	File. No.	: AAL02-354170
DOB/Gender	: 23-11-1989 (34 Yrs 2 Month /Female)	Referral Doctor	: Dr. Enomen Goodluck Ekata
Lab No.	: 22240240296	Referral Clinic	: Peshawar(Irham Medical Center)
Request Date	: 24-01-2024 21:08:12	Clinic File No	: 37336
Insurance	: No		

CLINICAL BIOCHEMISTRY

Test Name	Result	Units	Ref. Range	Method
Ferritin	62.60	ng/mL	13-150	ECLIA

Ferritin provides a more sensitive, specific and reliable measurement for determining iron deficiency at an early stage. Ferritin measurements in combination with other parameters is useful in determining the rate and degree of body iron overload in such disorders as thalassemia, sideroblastic anemia and in determining the response of patients treated with iron chelators. In chronic inflammatory disorders, infections, and in chronic renal failure, there is a disproportionate increase in serum ferritin levels in relation to iron stores. Samples should not be taken from patients receiving therapy with high biotin doses (i.e. > 5 mg/day) until at least 8 hours following the last biotin administration Please note Reference Range Reviewed w.ef 14/12/23 .

Vitamin D, 25-OH (Total)	77.50	ng/mL	Deficiency: < 20 Insufficiency: 20 - 30 Sufficiency: 30 - 50 Optimal: 50 - 100 Excess: >100 Toxicity: >150	ECLIA
---------------------------------	-------	-------	---	-------

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 .

Sample Type : Serum

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

H/L Collected On : 24-01-2024 20:00:00 Received On : 24-01-2024 21:12:00
Authenticated On : 24-01-2024 23:48:24 Released On : 24-01-2024 23:53:19



Esmeralda Obenita
Lab Incharge
DHA/LS/2992011/ 241430

LABORATORY REPORT

Name	: DOUNIA HAITHAM KHOUZAM	File. No.	: AAL02-354170
DOB/Gender	: 23-11-1989 (34 Yrs 2 Month /Female)	Referral Doctor	: Dr. Enomen Goodluck Ekata
Lab No.	: 22240240296	Referral Clinic	: Peshawar(Irham Medical Center)
Request Date	: 24-01-2024 21:08:12	Clinic File No	: 37336
Insurance	: No		

HORMONES/ENDOCRINE/TUMOR MARKERS

Test Name	Result	Units	Ref. Range	Method
**Anti Mullerian Hormone	0.93	ng/mL	0.711 - 7.59	ECLIA

Conversion Formula: (Concentration in ng/mL) x (7.14) = pmol/L

In Adult Females ; AMH > 7.7 ng/ml very high ovarian reserve/Polycystic ovarian disease – caution higher risk of ovarian hyperstimulation syndrome(OHSS). If AMH very high > 14 ng/ml; Suggestive of severe PCOS. AMH levels do not change significantly throughout the menstrual cycle Samples should not be taken from patients receiving therapy with high biotin doses (i.e. > 5 mg/day) until at least 8 hours following the last biotin administration. Reference range reviewed w.e.f 15/10/23.

FSH (Follicle Stimulating Hormone)	4.95	mIU/mL	Normal menstruating females: Follicular phase: 3.5-12.5 Ovulation Phase: 4.7-21.5 Luteal phase: 1.7-7.7 Post menopausal : 25.8-134.8	ECLIA
---	------	--------	--	-------

Conversion Formula: (Concentration in mIU/mL) x (1.0) = IU/L.

Determination of the FSH concentration is used in the elucidation of dysfunctions within the hypothalamus pituitary gonads system. The determination of FSH in conjunction with LH is utilized for the following indications: congenital diseases with chromosome aberrations, polycystic ovaries (PCO), amenorrhea (causes), and menopausal syndrome.

Depressed gonadotropin levels in men occur in azoospermia. Samples should not be taken from patients receiving therapy with high biotin doses (i.e. > 5 mg/day) until at least 8 hours following the last biotin administration.

Please note Reference Range Reviewed w.e.f 09/01/24 .

LH (serum)	2.100	mIU/mL	Follicular phase: 1.7 - 15.0 Midcycle peak: 21.9 -56.6 Luteal phase: 0.6 - 16.3 Postmenopausal: 14.2 - 52.3	CLIA
-------------------	-------	--------	--	------

Concentration of biotin greater than 1500 ng/mL may affect the patient result.

Prolactin	14.30	ng/mL	Non Pregnant: 4.79-23.3 Pregnant: 95-473	ECLIA
------------------	-------	-------	---	-------

Conversion Formula: (Concentration in ng/mL) x (21.2) =mIU/L.

Samples should not be taken from patients receiving therapy with high biotin doses (i.e. > 5 mg/day) until at least 8 hours following the last biotin administration.

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

H/L Collected On : 24-01-2024 20:00:00 Received On : 24-01-2024 21:12:00
Authenticated On : 24-01-2024 23:48:24 Released On : 24-01-2024 23:53:19



Esmeralda Obenita
Lab Incharge
DHA/LS/2992011/ 241430

LABORATORY REPORT

Name	: DOUNIA HAITHAM KHOUZAM	File. No.	: AAL02-354170
DOB/Gender	: 23-11-1989 (34 Yrs 2 Month /Female)	Referral Doctor	: Dr. Enomen Goodluck Ekata
Lab No.	: 22240240296	Referral Clinic	: Peshawar(Irham Medical Center)
Request Date	: 24-01-2024 21:08:12	Clinic File No	: 37336
Insurance	: No		

Test Name	Result	Units	Ref. Range	Method
Please note Reference Range Reviewed w.ef 10/01/24				
Total T4 (Thyroxine-Total)	8.38	µg/dL	4.5 - 12	ECLIA

Conversion Formula: (Concentration in g/dL) x (12.87) = nmol/L.

The determination of T4 is useful for the detection of hyperthyroidism, the detection of primary and secondary hypothyroidism, and the monitoring of TSH-suppression therapy. Please note Reference Range Reviewed w.ef 15/10/23 .

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

H/L Collected On : 24-01-2024 20:00:00 Received On : 24-01-2024 21:12:00
Authenticated On : 24-01-2024 23:48:24 Released On : 24-01-2024 23:53:19



Esmeralda Obenita
Lab Incharge
DHA/LS/2992011/ 241430