



Name : Ms. AMAR BASSAM HAWANA

DOB : 02/01/1991 Age / Gender : 34 Y / Female

Referred by : CITICARE MEDICAL CENTER
Centre : CITICARE MEDICAL CENTER

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: 43763

Sample No. :

Ref No.

: 2502541654

Collected Registered 21/02/2025 08:50 21/02/2025 15:44

Reported : 21/02/2025 17:22

BIOCHEMISTRY

mg/dL

Test Result GLUCOSE (FASTING) 86

Flag

Flag Unit Reference Range

< 100

Methodology Hexokinase

Please note change. Source: The American Diabetes Association (ADA)

Sample Type : Fluoride Plasma

End of Report



Dr. Adley Mark Fernandes M.D (Pathology) Pathologist Dr. Vyoma V Shah M.D (Pathology) Clinical Pathologist

Page 1 of 7

Tel: +971 4 398 8567

HALEEM HAKKIM Laboratory Technician Printed on: 21/02/2025 18:25

Q aleem

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P.O Box: 49527

Partin Amore



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Dubai, UAE

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HENJATOLOGY

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Photometric Electrical Impedance
Electrical Impedance
Calculation
Electrical Impedance
Calculation
Calculation
VCS 360 Technology
Calculation
VCS 360 Technology
Calculation
Electrical Impedance
VCS 360 Technology
Calculation
Calculation Calculation
Calculation

Dr. Vyoma V Shah **Dr. Adley Mark Fernandes** M.D (Pathology) M.D (Pathology) **Pathologist Clinical Pathologist**

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Jillian Joy Garcia Laboratory Technologist Printed on: 21/02/2025 18:25

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HEMATOLOGY

Test Result Flag Unit Reference Range Methodology

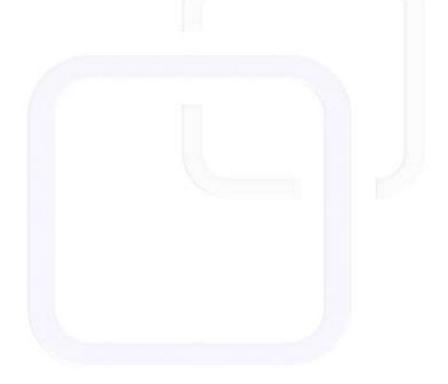
COMPLETE BLOOD COUNT (CBC)

INTERPRETATION NOTES:

Please note update on CBC report format, reference ranges and method(Beckman Coulter).

Sample Type: EDTA Whole Blood

End of Report



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Dr. Vyoma V Shah M.D (Pathology) Clinical Pathologist

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Jillian Joy Garcia

Laboratory Technologist Printed on: 21/02/2025 18:25

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IMMUNOLOGY

Test Result Flag Unit Reference Range Methodology

FERRITIN 14 ng/mL 6 - 175 ECLIA

Please note change. Source: Mayo Clinic Laboratories.

INTERPRETATION NOTES:

Interpretation:

Increased level is seen in haemochromatosis, porphyria, rheumatoid arthritis, liver disease, hyperthyroidism, adult stills disease, type 2 diabetes, leukemia, Hodgkins lymphoma, iron poisoning, in inflammation, frequent blood transfusion, alcohol abuse Decreased level is seen in any Iron deficiency conditions such as heavy menstrual bleeding, pregnancy, not enough iron in the diet, or bleeding inside the intestinal tract (from ulcers, colon polyps, colon cancer, hemorrhoids, or other conditions).

VITAMIN B12 525 pg/mL 197 - 771 ECLIA

INTERPRETATION NOTES:

Increase B12 level is seen in Liver disease (such as cirrhosis or hepatitis), Myeloproliferative disorders (for example, polycythemia vera and chronic myelogenous leukemia).

Decreased B12 level is seen in diseases that cause malabsorption (for example, celiac disease and Crohn disease), Lack of intrinsic factor, a protein that helps the intestine absorb vitamin B12, hyperthyroidism, pregnancy.

VITAMIN D, 25-OH (TOTAL) 21 ng/mL Deficiency: <20 ECLIA

Insufficiency: 20 - <30
Sufficiency: 30 - 80
Toxicity: >80
Please note change.
Source: Roche IFU.

INTERPRETATION NOTES:

Vit D (25 – OH) is the sum of Vit D2 (25 – OH) and Vit D3 (25 – OH). In normal persons not taking external supplements - Vit D3 comprises approximately 90 % of the total.

25 hydroxy (25–OH) vitamin D3 or calcidiol is the storage form of vitamin D3. Deficiency is associated with osteoporosis, multiple sclerosis, and rheumatoid arthritis, and mood disorders. Both Vitamin D2 and Vitamin D3 are converted to 25–OH vitamin D3 in the liver. 25 hydroxy vitamin D3 circulates to the kidney where it is converted to 1, 25 hydroxy vitamins D3 or calcitriol, the functional form of the vitamin.

Calcitriol is vital to calcium regulation and low serum calcium causes release of parathormone which converts 25–OH vitamin D3 to 1, 25 –OH vitamin D3 which then triggers osteolysis releasing calcium into the bloodstream.

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ENDOCRINOLOGY

Test Result Flag Unit Reference Range Methodology

ESTRADIOL (E2) 30.1 pg/mL Refer to Interpretation Table ECLIA

below.

INTERPRETATION NOTES:

Refer to Interpretation Table for Female Reference Range:

FEMALE	REFERENCE RANGE (pg/mL)		
Tanner Stage I (>14 days and prepubertal) (Mean Age: 7.1 years)	Undetectable - 20		
Tanner Stage II (Mean Age: 10.5 years)	Undetectable - 24		
Tanner Stage III (Mean Age: 11.6 years)	Undetectable - 60		
Tanner Stage IV (Mean Age: 12.3 years)	15 - 85		
Tanner Stage V (Mean Age: 14.5 years)	15 - 350		
Follicular Phase	20.5 - 233		
Mid Cycle	60.4 - 602		
Luteal Phase	51.1 - 222		
First Trimester	154 - 3243		
Second Trimester	1561 - 21280		
Third Trimester	8525 -> 30000		
Post Menopause	< 5		
Please note update in reference range. Source: Roche; Mayo Clinic Laboratories for Tanner Stage			

Refer to Interpretation Table for Male Reference Range:

1 to 14 days: Estradiol levels in newborns are very elevated at birth but will fall to prepubertal levels within a few days.

TANNER STAGE MALE	REFERENCE RANGE (pg/mL)	
Stage I (>14 days and prepubertal)(Mean Age: 7.1 years)	Undetectable - 13	
Stage II (Mean Age: 12.1 years)	Undetectable - 16	
Stage III (Mean Age: 13.6 years)	Undetectable - 26	
Stage IV (Mean Age: 15.1 years)	Undetectable - 38	
Stage V (Mean Age: 18 years)	10 - 40	

Increased level is seen in early puberty, tumors in the ovaries or testes, gynecomastia, hyperthyroidism, cirrhosis of liver.

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ENDOCRINOLOGY

Flag Unit Test Result **Reference Range** Methodology

Decreased level is seen in menopause, Turner syndrome, ovarian failure, polycystic ovarian syndrome (PCOS), depleted estrogen production, which can be caused by low body fat, hypopituitarism, hypogonadism.

FOLLICLE STIMULATING HORMONE (FSH) mIU/mL ECLIA 7.8 Follicular phase: 2.5 - 10.2

Midcycle Peak: 3.4 - 33.4 Luteal Phase: 1.5 - 9.1 Postmenopausal: 23 - 116.3

Pregnant: < 0.3

INTERPRETATION NOTES:

Increased level of FSH and LH are found in hypogonadism, anorchia, gonadal failure, complete testicular feminization syndrome, menopause, Klinefelter syndrome, alcoholism, and castration.

Decreased level is seen in pituitary or hypothalamic failure

LUTEINISING HORMONE (LH) 7.4 IU/L Follicular Phase: 1.9 - 12.5 **ECLIA**

> Mid Cycle Peak: 8.7 - 76.3 Luteal phase: 0.5 - 16.9 Post Menopausal: 15.9 - 54.0 Pregnant: < 0.1 - 1.5

Contraceptives: 0.7 - 5.6

PROLACTIN 870 mIU/L Refer to Interpretation. **ECLIA**

INTERPRETATION NOTES:

FEMALE REFERENCE RANGE (Please note change):

Stages	Reference Range (mIU/L)	
Tanner Stage I:	76.596 - 255.319	Source: Quest Diagnostics
Tanner Stage II-III:	55.319 - 382.979	Source: Quest Diagnostics
Tanner Stage IV-V:	68.085 - 425.532	Source: Quest Diagnostics
Non Pregnant:	102-496	Source: Roche Cobas Elecsys IFU
Pregnant:	212.766 - 4446.808	Source: Quest Diagnostics
Postmenopausal:	42.553 - 425.532	Source: Quest Diagnostics

High prolactin level is seen in pituitary gland tumour(prolactinoma), diseases of the hypothalamus, pregnancy, PCOS, liver disease (cirrhosis), kidney disease, anorexia nervosa hypothyroidism. Drugs that can cause an elevated prolactin include estrogen, tricyclic antidepressants, risperidone, opiates, amphetamines.

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ENDOCRINOLOGY

Test Result Flag Unit Reference Range Methodology

Levels of prolactin that are below normal are not usually treated but may be indicative of a general decrease in pituitary hormones caused by a pituitary disorder such as hypopituitarism. drugs such as dopamine, levodopa and ergot alkaloid derivatives decrease prolactin level.

THYROID STIMULATING HORMONE (TSH)

2.58

uIU/mL

0.27 - 4.2

ECLIA

Reference Range for

Pregnant:

First Trimester: 0.24 – 2.99 Second Trimester: 0.46 – 2.95

Third Trimester: 0.43 - 2.78

Sample Type : Serum

End of Report

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