

Patient

Doha Alqahtani y
Female - 47 Years
1011565491

Order

Reservation ID: 3422493
Branch: ACL01 - Riyadh (As
Sulimaniyah) - HQ

Referral

Client: 1170 - Baitna Home Health
Care

Registered At 05/01/25 15:26

Collected At 05/01/25 15:26

Reported At 05/01/25 18:37

Clinical Chemistry

Glucose - Fasting

81.6 mg/dL

Reference Range :

mg/dL

Normal: 70 - 100

Prediabetes: 101 - 125

Diabetes: ≥ 126

Comment :

Method: Spectrophotometry (SP)

Sample Type: Fluoride Plasma /
Serum

Hemoglobin A1C (Glycated Hb,HbA1C)

4.52 %

Reference Range :

● Normal

● Prediabetes

● Diabetes

< 5.7

5.7 - 6.4

≥ 6.5

Comment :

Method: Turbidimetric Immunoinhibition

Sample Type: EDTA Whole Blood



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Approved By:

Dr. Marwa
Dr. Marwa Abdelrazek
Clinical pathologist



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Blood Urea Nitrogen (BUN)

11 mg/dL

Reference Range :

8 - 20

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Creatinine - Serum

0.79 mg/dL

Reference Range :

0.55 - 1.02

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Uric Acid - Serum

5.16 mg/dL

Reference Range :

2.6 - 6

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum



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Sodium (Na)

136.55 mmol/L

Reference Range :

136 - 146

Comment :

Method: Ion-selective electrodes (ISE) - crown ether
membrane

Sample Type: Serum

Potassium (K)

4.43 mmol/L

Reference Range :

3.5 - 5.1

Comment :

Method: Ion-selective electrodes (ISE) - Crown ether
membrane

Sample Type: Serum

Ferritin

45 ng/mL

Reference Range :

11 - 306.8

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum



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Calcium (Ca) - Total

8.49 mg/dL

Reference Range :

8.8 - 10.6

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Phosphorus (P)

3.87 mg/dL

Reference Range :

2.5 - 4.5

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Magnesium (Mg)

2.25 mg/dL

Reference Range :

1.9 - 2.5

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum



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Zinc

80.9 µg/dL

Reference Range :

60 - 120

Comment :

Method: Spectrophotometry
(SP)

Sample Type: Serum

C-Reactive Protein (CRP), Quantitative

12.65 mg/L

Reference Range :

< 5

Comment :

Method: Latex Particle Immunoturbidimetric
Sample Type: Serum

Cholesterol - Total

109.34 mg/dL

Reference Range :

- Desirable
- Borderline
- High

≤ 200
200 - 240
≥ 240

Comment :

Method: Spectrophotometry (SP)
Sample Type: Serum



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High Density Lipoprotein (HDL)

40.31 mg/dL

Reference Range :

● Risk Indicator	< 40
● Standard Risk	40 - 60
● Favorable Prognosis	> 60

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Low Density Lipoprotein (LDL)

59 mg/dL

Reference Range :

● Optimal	<100
● Near Optimal	100 - 129
● Borderline	130 - 159
● High	160 - 189
● Requiring treatment	≥ 190

Triglycerides

51.04 mg/dL

Reference Range :

● Normal	< 150
● Borderline	150 - 199
● High	200 - 499
● Very High	≥ 500

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum



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Alanine Aminotransferase (ALT)

13.81 U/L

Reference Range :

< 35

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Aspartate Amino Transferase (AST)

22.67 U/L

Reference Range :

< 35

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Total Protein - Serum

5.65 g/dL

Reference Range :

6.6 - 8.3

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum



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Albumin - Serum

3.32 g/dL

Reference Range :

3.5 - 5.2

Comment :

Method: Spectrophotometry (SP)

Sample Type: Seurm

Bilirubin - Total

0.86 mg/dL

Reference Range :

0.3 - 1.2

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Bilirubin - Direct

0.1 mg/dL

Reference Range :

≤ 0.2

Comment :

Method: Spectrophotometry (SP)

Sample Type: Seurm



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Alkaline Phosphatase (ALP)

51.37 U/L

Reference Range :

30 - 120

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Gamma-Glutamyl-Transpeptidase (GGT)

13.46 U/L

Reference Range :

0 - 38

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Thyroid Stimulating Hormone (TSH)

2.46 μ U/mL

Reference Range :

0.34 - 5.6

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum



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Vitamin D (25 OH Vit D Total)

46.37 ng/mL

Reference Range :

- Deficiency
- Sufficient
- Excessive

< 30
30 - 100
> 100

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum

Vitamin B12 (Cyanocobalamine)

585 pg/mL

Reference Range :

192 - 827

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum

Vitamin B9 (Folic acid)

> 19.981 ng/mL

Reference Range :

3.1 - 19.9

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum



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Calcium (Ca) - Ionized

4.59 mg/dL

Reference Range :

3.96 - 5.6

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum



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Test Results

Erythrocyte Sedimentation Rate (ESR)

5 mm/h

Reference Range :

≤ 20

Comment :

Method: Westergren method

Sample Type: Whole Blood



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Blood Tests

Complete Blood Count (CBC)

Test Name	Result	Normal Range	Units
WBCs	5.81	4 - 11	$10^3/\mu\text{L}$
Red blood cell (RBC) count	3.71	3.8 - 4.8	$\times 10^6/\mu\text{L}$
Hemoglobin	12.56	12 - 16	g/dL
Hematocrit (HCT)	35.2	36 - 46	%
MCV	94.8	83 - 101	fL
MCH	33.9	27 - 32	pg
MCHC	35.7	31.5 - 34.5	g/dL
RDW-CV	13.4	11.6 - 14	%
Platelets	203.7	150 - 450	$10^3/\mu\text{L}$

Differential count	Result	Normal Range	Units
Neutrophils%	57.90	35 - 75	%
Lymphocytes%	28.02	20 - 45	%
Monocytes%	9.70	2 - 8	%
Eosinophils%	4.17	1 - 6	%
Basophils%	0.21	0 - 1	%
Neutrophils#	3.36	2 - 7	$10^3/\mu\text{L}$
Lymphocytes#	1.63	1 - 3.5	$10^3/\mu\text{L}$
Monocytes#	0.56	0.2 - 1	$10^3/\mu\text{L}$
Eosinophils#	0.24	0.02 - 0.5	$10^3/\mu\text{L}$
Basophils#	0.01	0.01 - 0.1	$10^3/\mu\text{L}$

Method: Coulter Principle and Flow cytometric optical measurement

Sample type: EDTA Whole Blood



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Kidney Function

Urine Analysis

Test Name	Result	Normal Range	Units
Physical Examination:			
Color	Dark Yellow	Pale to yellow	--
Aspect	Clear	Clear	--
Chemical Examination:			
Specific Gravity	1.010	1.005 - 1.030	--
PH	5 (Acidic)	5.0 - 9.5	--
Leukocyte	Negative	Negative	--
Nitrites	Negative	Negative	--
Protein	Negative	Negative	--
Glucose	Negative	Negative	--
Ketones	Negative	Negative	--
Urobilinogen	Normal	Normal	--
Bilirubin	Negative	Negative	--
Blood	Negative	Negative	--
Microscopic Examination:			
Pus Cells	0-1	0-5	H.P.F
RBC'S	0-1	0-5	H.P.F
Epithelial	Few	Nil	--
Cast	Nil	Nil	--
Crystals	Nil	Nil	--
Amorphous materials	Nil	--	--

Method: Reagent Impregnated Strips/ Microscopic Examination

Sample Type: urine Sample



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