

# CITY GENERAL HOSPITAL

Laboratory Services Department



## LABORATORY REPORT

Patient Name:	Jane Doe	Date of Birth:	01/15/1985
Patient ID:	MID-00001	Age:	39 years
Ordering Physician:	Dr. Sarah Smith, MD	Date Collected:	12/01/2024
Department:	Internal Medicine	Date Reported:	12/02/2024

## TEST INFORMATION

Test Ordered: Comprehensive Metabolic Panel (CMP) + Complete Blood Count (CBC)

Specimen Type: Blood (Venous)

Collection Time: 08:30 AM (Fasting)

## COMPREHENSIVE METABOLIC PANEL (CMP)

Test	Result	Units	Reference Range	Flag
Glucose	92	mg/dL	70-100	Normal
BUN (Blood Urea Nitrogen)	15	mg/dL	7-20	Normal
Creatinine	0.9	mg/dL	0.6-1.2	Normal
BUN/Creatinine Ratio	16.7	ratio	10-20	Normal
Sodium	140	mmol/L	136-145	Normal
Potassium	4.2	mmol/L	3.5-5.0	Normal
Chloride	102	mmol/L	98-107	Normal
Carbon Dioxide	25	mmol/L	23-29	Normal
Calcium	9.5	mg/dL	8.5-10.5	Normal
Total Protein	7.1	g/dL	6.0-8.0	Normal
Albumin	4.2	g/dL	3.5-5.0	Normal
Globulin	2.9	g/dL	2.0-3.5	Normal
A/G Ratio	1.4	ratio	1.0-2.5	Normal
Total Bilirubin	0.7	mg/dL	0.1-1.2	Normal
Alkaline Phosphatase	75	U/L	30-120	Normal

AST (SGOT)	28	U/L	10-40	Normal
ALT (SGPT)	32	U/L	7-56	Normal

## COMPLETE BLOOD COUNT (CBC)

Test	Result	Units	Reference Range	Flag
WBC (White Blood Cells)	7.2	$10^3/\mu\text{L}$	4.5-11.0	Normal
RBC (Red Blood Cells)	4.6	$10^6/\mu\text{L}$	4.0-5.5	Normal
Hemoglobin	13.8	g/dL	12.0-16.0	Normal
Hematocrit	41.2	%	36.0-46.0	Normal
MCV (Mean Corpuscular Volume)	89.6	fL	80-100	Normal
MCH (Mean Corpuscular Hemoglobin)	30.0	pg	27-33	Normal
MCHC	33.5	g/dL	32-36	Normal
RDW (Red Cell Distribution Width)	13.2	%	11.5-14.5	Normal
Platelet Count	245	$10^3/\mu\text{L}$	150-400	Normal
MPV (Mean Platelet Volume)	10.2	fL	7.5-11.5	Normal

## WBC DIFFERENTIAL

Test	Result	Units	Reference Range	Flag
Neutrophils	62	%	40-70	Normal
Lymphocytes	28	%	20-40	Normal
Monocytes	7	%	2-8	Normal
Eosinophils	2	%	1-4	Normal
Basophils	1	%	0-2	Normal

## INTERPRETATION

All values are within normal reference ranges. No significant abnormalities detected.

Metabolic function appears normal with appropriate glucose control, kidney function, and electrolyte balance.

Complete blood count shows normal hematologic parameters with no evidence of anemia, infection, or other blood disorders.

Results are consistent with good overall health status.

## NOTES

- Patient was fasting for 10 hours prior to blood collection

- No medications reported that would interfere with test results
- Specimen quality: Acceptable, no hemolysis
- All tests performed in CAP-accredited laboratory



Reviewed and Approved By:

**Dr. Michael Chen, MD**

Medical Director, Laboratory Services

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Date: 12/02/2024 Time: 14:30

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This is a DEMO laboratory report created for SecureHealth Chain demonstration purposes. All patient information and test results are fictional.