

MEDICAL LABORATORY REPORT

Patient Name: John Smith
Date: November 6, 2025
Patient ID: 12345

COMPLETE BLOOD COUNT (CBC)

Hemoglobin: 13.5 g/dL (Normal Range: 12.0-17.5 g/dL)
Hematocrit: 42% (Normal Range: 35-50%)
WBC: 8.5 K/ μ L (Normal Range: 4.0-11.0 K/ μ L)
RBC: 4.8 M/ μ L (Normal Range: 4.0-5.5 M/ μ L)
Platelets: 250 K/ μ L (Normal Range: 150-400 K/ μ L)

METABOLIC PANEL

Glucose: 145 mg/dL (Fasting) (Normal Range: 70-100 mg/dL) ⚠️ HIGH
Total Cholesterol: 220 mg/dL (Normal Range: 0-200 mg/dL) ⚠️ HIGH
LDL Cholesterol: 145 mg/dL (Normal Range: 0-100 mg/dL) ⚠️ HIGH
HDL Cholesterol: 45 mg/dL (Normal Range: 40-300 mg/dL)
Triglycerides: 180 mg/dL (Normal Range: 0-150 mg/dL) ⚠️ HIGH

LIVER FUNCTION TESTS

ALT: 35 U/L (Normal Range: 7-56 U/L)
AST: 28 U/L (Normal Range: 10-40 U/L)
Bilirubin: 0.8 mg/dL (Normal Range: 0.1-1.2 mg/dL)
Albumin: 4.2 g/dL (Normal Range: 3.5-5.5 g/dL)

KIDNEY FUNCTION TESTS

Creatinine: 1.0 mg/dL (Normal Range: 0.6-1.3 mg/dL)
BUN: 15 mg/dL (Normal Range: 7-20 mg/dL)

VITAL SIGNS

Blood Pressure: 140/92 mmHg ⚠️ Stage 2 Hypertension
Heart Rate: 78 bpm
Temperature: 98.6°F
SpO2: 98%

CLINICAL NOTES:

- Elevated fasting glucose suggests prediabetes/diabetes - HbA1c test recommended
- High cholesterol and LDL require dietary modifications and possible statin therapy
- Blood pressure indicates Stage 2 Hypertension - medication review needed
- Triglycerides elevated - lifestyle modifications recommended

RECOMMENDATIONS:

- Consult with physician about glucose and cholesterol management
- Consider antihypertensive medication adjustment
- Dietary counseling for heart health
- Follow-up appointment in 3 months
- Repeat lipid panel and HbA1c testing

Report Generated By: Dr. Sarah Johnson, MD
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