

# Hypothetical Case Study Report

## Blood Examination Case Study

Patient: Jane Smith

Age: 28

Gender: Female

Doctor: Dr. Robert Johnson

Date: July 17, 2024

Chief Complaint: Fatigue and pallor

Physical Examination:

- Temperature: 99.1°F
- Blood Pressure: 110/70 mmHg

Laboratory Results:

- Hemoglobin: 9.5 g/dL (Low)
- Hematocrit: 29% (Low)
- White Blood Cells: 6,000/ $\mu$ L (Normal)
- Platelets: 250,000/ $\mu$ L (Normal)
- Mean Corpuscular Volume: 75 fL (Low)
- Iron: 30  $\mu$ g/dL (Low)
- Ferritin: 10 ng/mL (Low)

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Diagnosis: Iron Deficiency Anemia

Treatment Plan:

- Iron supplements (ferrous sulfate) daily
- Diet rich in iron
- Follow-up in 1 month