

HEART SOMA MEDICAL FORM

Patient Information

- Name: _____
- Age: 42
- Gender: Female
- Timestamp: 2025-09-24T10:00:00Z

Chief Complaint

- Description: I have been feeling very tired and dizzy lately.

Symptoms (mark [X] or [])

- Fatigue: [X]
- Dizziness: [X]
- Shortness of breath: [X]
- Chest pressure: [X]
- Weight loss: [X]

Family History

- Heart disease in family: [X] Yes [] No
- Details: My father had a heart attack at 55.

Medications

- List: Only iron supplements occasionally.

Anomaly Detection

Type	Value	Severity	Note
Heart Rate	115 bpm	High	Heart rate above normal resting range.
Blood Pressure	145/95	Moderate	Elevated blood pressure detected.
Oxygen Saturation	92%	Moderate	Slightly lower than normal oxygen saturation.
Hemoglobin	9.5 g/dL	High	Hemoglobin significantly below normal range.
Cholesterol	240 mg/dL	Moderate	Borderline high cholesterol, may increase risk.

Assessment

- Suspected disease: Anemia
- Probability: 0.78
- Explanation:
 - The combination of fatigue, dizziness, chest pressure, and unexplained weight loss suggests possible anemia, though cardiovascular risks cannot be excluded. A CBC and iron study are recommended.

Plan

- Recommended tests:
- CBC: [X]
- Iron studies: [X]
- ECG: [X]
- Risk flags:
- Tachycardia: [X]
- Elevated BP: [X]
- Low SpO2: [X]
- High cholesterol: [X]
- Anemia indicators: [X]

Follow-up

- Note: Don't worry, we'll investigate step by step and confirm with tests.

Anomaly ECG Analysis

1. Input file: ecg_input1.csv

Reconstruction loss: 0.0345

Result: Normal

2. Input file: ecg_input2.csv

Reconstruction loss: 0.12

Result: Anomalous

