

Patient Electronic Health Record (EHR)

Patient Information

Name: John Doe

Age: 58

Sex: Male

Date of Admission: 2024-02-14

Presenting Complaint: Chest pain

Vital Signs at Admission

Blood Pressure: 150/90 mmHg

Heart Rate: 110 bpm

Respiratory Rate: 20 breaths/min

Temperature: 98.6 F (37 C)

Oxygen Saturation: 94% on room air

Signs and Symptoms

- Severe chest pain, described as pressure-like, radiating to the left arm and jaw
- Nausea
- Shortness of breath
- Sweating
- Palpitations

Detailed Laboratory Tests and Results

| Test | Result | Reference Range |
|------|--------|-----------------|
|------|--------|-----------------|

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|------------|-------------------------|------------------------------|
| Troponin I | 0.5 ng/mL | <0.04 ng/mL |
| CK-MB | 25 ng/mL | 0-5 ng/mL |
| WBC | 7.0 x10 ⁹ /L | 4.0-11.0 x10 ⁹ /L |
| Hemoglobin | 14.5 g/dL | 13.8-17.2 g/dL |
| Platelets | 250 x10 ⁹ /L | 150-450 x10 ⁹ /L |
| Na+ | 140 mmol/L | 135-145 mmol/L |
| K+ | 4.2 mmol/L | 3.5-5.1 mmol/L |
| Creatinine | 1.0 mg/dL | 0.7-1.2 mg/dL |
| Glucose | 120 mg/dL | 70-99 mg/dL |
| Calcium | 9.4 mg/dL | 8.6-10.2 mg/dL |
| AST | 30 U/L | 0-40 U/L |
| ALT | 25 U/L | 0-41 U/L |
| LDL | 160 mg/dL | <100 mg/dL (optimal) |
| HDL | 35 mg/dL | >40 mg/dL |

Electrocardiogram (ECG) Findings

- ST-segment elevation in leads II, III, and aVF
- Reciprocal changes in leads I and aVL
- Diagnosis: ST-Elevation Myocardial Infarction (STEMI) involving the inferior wall

Clinical Notes

The patient presented with classic symptoms of acute myocardial infarction. Cardiac biomarkers were significantly elevated, indicating myocardial injury. The ECG findings were consistent with an inferior wall STEMI. Urgent diagnostic procedures were initiated to further evaluate the extent of

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myocardial involvement. The patient's condition is being closely monitored, and further assessments are planned to guide the management strategy.