

### QUESTION

1. A patient is admitted to the hospital with a diagnosis of acute myocardial infarction. The patient is in the intensive care unit and is being monitored closely. The patient's vital signs are stable, and the patient is alert and oriented. The patient's chest pain has resolved, and the patient is able to eat and drink. The patient's oxygen saturation is 95% on 2L of oxygen. The patient's heart rate is 68 bpm, blood pressure is 110/70 mmHg, and respiratory rate is 18 breaths per minute. The patient's temperature is 37.5°C. The patient's ECG shows a sinus rhythm with a PR interval of 180 ms, a QRS duration of 90 ms, and a QT interval of 380 ms. The patient's chest X-ray shows a small infiltrate in the right lower lung field. The patient's laboratory studies show a hemoglobin of 12 g/dL, a hematocrit of 38%, a white blood cell count of 10,000/mm<sup>3</sup>, and a platelet count of 200,000/mm<sup>3</sup>. The patient's serum electrolytes are within normal limits. The patient's serum troponin I is elevated at 0.15 ng/mL. The patient's serum creatinine is 1.2 mg/dL. The patient's serum lactate dehydrogenase (LDH) is 250 U/L. The patient's serum aspartate aminotransferase (AST) is 40 U/L. The patient's serum alanine aminotransferase (ALT) is 25 U/L. The patient's serum bilirubin is 1.0 mg/dL. The patient's serum total bilirubin is 1.0 mg/dL. The patient's serum total protein is 7.5 g/dL. The patient's serum albumin is 4.5 g/dL. The patient's serum globulin is 3.0 g/dL. The patient's serum ferritin is 100 ng/mL. The patient's serum ferritin is 100 ng/mL. The patient's serum ferritin is 100 ng/mL.

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