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Case Report

Evans syndrome with non-ST segment elevation myocardial infarction complicated by hemopericardium

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ABSTRACT

Evans syndrome (ES) is a rare hematological disease characterized by autoimmune hemolytic anemia, immune thrombocytopenia, and/or neutropenia, all of which may be seen simultaneously or subsequently. Thrombotic events in ES are uncommon. Furthermore, non-ST segment-elevation myocardial infarction (NSTEMI) during ES is a very rare condition. Here, we describe a case of a 69-year-old female patient presenting with NSTEMI and ES. Revascularization via percutaneous coronary intervention (PCI) was scheduled and performed. Hemopericardium and cardiac tamponade occurred 5 h after PCI, and urgent pericardiocentesis was performed. Follow-up was uneventful, and the patient was safely discharged. Early recognition and appropriate management of NSTEMI is crucial to prevent morbidity and mortality. Coexistence of NSTEMI and ES, which is associated with increased bleeding risk, is a challenging scenario and these patients should be closely monitored in order to achieve early recognition and treatment of complications.

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1. Introduction

Evans syndrome (ES) is a rare hematological disease characterized by autoimmune hemolytic anemia (AIHA), immune thrombocytopenia (ITP), and/or neutropenia, all of which may be seen simultaneously or subsequently with no known underlying etiology.¹ Despite various treatment options, ES is associated with significant morbidity and mortality rates due to chronic and repetitive nature of the disease.²

Antibodies against erythrocytes, platelets, and neutrophils are present in ES. While some of the antibodies are directed against a base protein of the Rh blood group and cause red blood destruction, most of them are directed against the platelet GPIIb/IIIa.³ Although most of the cases are classified as primary (or idiopathic), ES has been associated with several conditions including systemic lupus erythematosus, lymphoproliferative disorders, and primary immunodeficiency diseases as secondary.² Thrombotic events are rarely seen in ES; thus, anecdotal case reports exist mostly as

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venous thrombosis.⁴⁻⁷ In another study including series of 68 patients, 6 patients (21%) developed cardiovascular events during a follow-up of 4.8 years. One patient developed myocardial infarction, 4 developed acute coronary syndrome, and 1 developed stroke. 21% had cardiovascular events and 16 patients died.⁸

The present case exhibits coexisting ES and non-ST segment-elevation myocardial infarction (NSTEMI) complicated with hemopericardium, a phenomenon which has been reported as a very rare condition.

2. Case report

A 69-year-old female patient was admitted to emergency room for chest pain with increasing intensity for the past 1 week. She had history of hypertension treated with metoprolol (50 mg/day) for 10 years and umbilical hernia surgery 5 years ago. On examination, she was sweating, had mild dyspnea and paleness. Her blood pressure was 135/82 mmHg and heart rate was 102 beats/min with a blood saturation of 96% in room air. Physical examination was unremarkable except the relapsed umbilical hernia. She was a non-smoker and did not consume alcohol. Her 12-lead electrocardiogram (ECG) showed ST-segment depression in leads V3–V6.

Echocardiographic examination revealed a left ventricular ejection fraction of 55% with hypokinesia in inferior and posterior segments, left ventricular hypertrophy, and moderate mitral regurgitation.

Initial blood tests showed white blood cell count (WBC) $2.86 \times 10^3/\mu\text{L}$ (normal range $4.4\text{--}11.3 \times 10^3/\mu\text{L}$), hemoglobin 6 g/dL (normal range 11.7–16.1 g/dL), platelet count $1 \times 10^3/\mu\text{L}$ (normal range $152\text{--}396 \times 10^3/\mu\text{L}$), urea 35 mg/dL (normal range 16.6–48.5 mg/dL), creatinine 1 mg/dL (normal range 0.5–0.9 mg/dL), glucose 83.5 mg/dL (normal range 74–109 mg/dL), sodium 130 mmol/L (normal range 136–145 mmol/L), potassium 4.3 mmol/L (normal range 3.5–5.1 mmol/L), prothrombin time 13.2 s (normal range 11.5–15 s), activated partial thromboplastin time 31 s (normal range 26–32 s), and international normalized ratio 1.0 (normal range 0.8–1.2). Repeated complete blood count (CBC) provided similar results. Peripheral smear test was unremarkable. We detected levels of cardiac enzymes as follows: CK 157 (normal range 26–192 U/L), CK-MB 11 (normal range <7.2 $\mu\text{g/L}$), and Tn-I 0.29 $\mu\text{g/L}$ (normal range <0.023 $\mu\text{g/L}$).

The patient received immediate treatment with a loading dose of clopidogrel (300 mg) and ASA (300 mg), and was transferred to our coronary intensive care unit (CICU) with the diagnosis of acute NSTEMI and pancytopenia. Intravenous nitroglycerin infusion was initiated for the relief of her chest pain. She also received 100 mg/day metoprolol and 40 mg/day statin via oral route.

Hematology department was consulted for the patient, and further tests showed high levels of LDH 366 U/L (normal 135–214 U/L), low levels of haptoglobin <10 (normal 30–200 mg/dL), and positive Direct and Indirect Coombs tests. ES was diagnosed in this patient with respect to neutropenia, AIHA, and thrombocytopenia. Two units of packed red blood cells and 8 units of thrombocyte suspension were transfused. Intravenous methyl prednisolone at a dose of 1 mg/kg/day and intravenous immunoglobulin (IVIG) 1 mg/kg/day were administered for 2 days.

On the second day of admission, CBC revealed WBC $9.81 \times 10^3/\mu\text{L}$, hemoglobin 7.2 g/dL, and platelet count $52 \times 10^3/\mu\text{L}$. Again, 2 units of packed red-blood cells were transfused.

Because of refractory angina despite optimal medical treatment, urgent conventional coronary angiography (CCA) was scheduled and performed with radial access with 60 U/kg unfractionated heparin (UFH). CCA demonstrated 99% obstruction in the proximal segment of left anterior descending artery (LAD), 80% obstruction in distal circumflex artery (Cx), and 99% obstruction in middle right coronary artery (RCA) (Fig. 1). Complete revascularization was achieved with 3 bare-metal stents (3.0 mm \times 24 mm Liberte for LAD, 2.5 mm \times 16 mm Liberte for Cx, and 2.75 mm \times 16 mm Liberte for RCA) (Fig. 2). After removing the radial sheath, a compression device was placed on the wrist and the patient was transferred to CICU for follow-up.

Five hours after the procedure, the patient developed severe chest pain with sudden onset, and her control ECG was unremarkable. After a short while, her blood pressure dropped to 85/50 mmHg, and bedside echocardiography revealed pericardial effusion with cardiac tamponade.

An amount of 400 mL hemorrhagic pericardial fluid was removed by bedside pericardiocentesis. Hemodynamic status of the patient rapidly improved, and her chest pain resolved. Analysis of the pericardial fluid confirmed hemopericardium. During the 2 days follow-up, no additional fluid was drained from the catheter. After confirmation of absence of residual pericardial effusion, the sheath in the pericardial cavity was

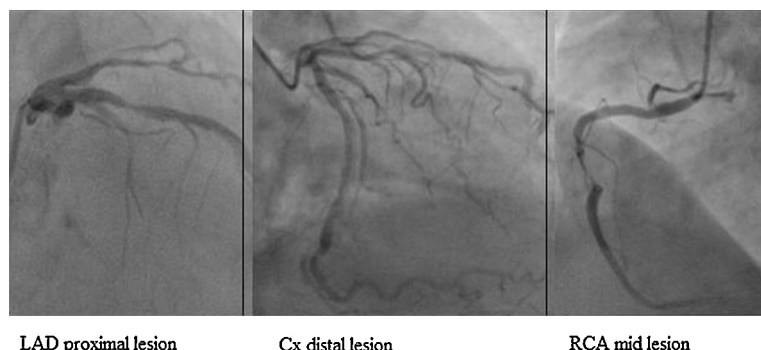


Fig. 1 – Coronary angiographic images of the patient.

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