

WORLD HEART CONGRESS

May 22- 24, 2017 Osaka, Japan

Presumed hepatitis C associated cardiomyopathy in young adult

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Background: HCV induced cardiomyopathy occurs only in patients who possess a certain genetic susceptibility. We are presenting a rare case of cardiomyopathy in a known hepatitis C young adult patient as an extrahepatic manifestation of hepatitis C.

Case Description: A 21-year-old hepatitis C man admitted to hospital with shortness of breath since 20 days, abdominal swelling and tenderness, nausea, and vomiting. He was diagnosed with idiopathic heart failure 2 year ago. Physical examination revealed cardiomegaly and ascites. Abdominal USG showed congestive liver and splenomegaly. Echocardiography showed segmental hypokinetics and LVEF of 23%. During hospitalization, he developed cardiac arrest. Planned ICD was postponed and further evaluation has been taken.

Discussion: Cardiomyopathy in young adult is a rare disease with most etiology is genetic heart diseases. This case demonstrated cardiomyopathy in a young adult man with presumed etiology is Hepatitis C. The development of HCV-associated cardiomyopathy may take place in genetically susceptible individuals in whom viral mechanisms may act in concert to produce myocardial damage. Treatment for heart failure remains a major issue in this case. Device implant might help the prognosis and survival, but the latest medical condition has lead to postpone of those above. This patient had recurrent electrolyte imbalance due to parathyroid disease. Currently, the patient is under further investigation.

Conclusion: Although the etiology of cardiomyopathy in this case still unidentified, we assumed that hepatitis C can develop cardiomyopathy. Previous study suggest that interferon is a promising treatment for myocardial diseases caused by HCV. Investigation of etiology of recurrent electrolyte imbalance might help to improve the outcome.

Biography

Lusiani has completed her graduation from University of Indonesia as Medical Doctor, with the specialties including Internal Medicine from the University of Indonesia. Presently, she is working at the Cardiology Division, Internal Medicine Departement of Cipto Mangunkusumo General Hospital and Internal Medicine Departement of Aminah Hospital.

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