

Impella CP device deformation in a young female patient – experience of University Hospital Centre Rijeka

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Acute Coronary Syndrome (ACS) is an emergency cardiovascular condition that requires rapid and precise diagnosis, as well as appropriate treatment. This paper presents the case of a young female patient admitted to our institution with suspected ACS. Upon admission, invasive coronary angiography was immediately performed, which ruled out coronary artery disease as the cause of her symptoms. Further diagnostic workup revealed that the patient was suffering from myopericarditis as a complication of Influenza B. Given the severity of the clinical presentation, treatment was continued in the intensive cardiac care unit with the use of pharmacological and mechanical support, including extracorporeal membrane oxygenation and the Impella CP system, which were employed for hemodynamic support.¹ During the use of the Impella CP system, a device deformation was noted, which posed an additional challenge in treatment. This complication required urgent assessment and intervention by a multidisciplinary team to ensure continuous circulatory support for the patient. The paper will describe the course of the complication, the method of recognizing it, and how the issue was resolved. A special emphasis is placed on the importance of a multidisciplinary approach in treating such complex cases, with cardiologists, intensivists, perfusionists, and nurses playing key roles. The role of nurses in monitoring and caring for patients with advanced heart function support systems is highlighted, with a particular focus on their interventions and tasks in the angiography suite of interventional cardiology and the intensive cardiac care unit.

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LITERATURE 

1. Asber SR, Shanahan KP, Lussier L, Didomenico D, Davis M, Eaton J, Esposito M, Kapur NK. Nursing Management of Patients Requiring Acute Mechanical Circulatory Support Devices. *Crit Care Nurse.* 2020 Feb 1;40(1):e1-e11. <https://doi.org/10.4037/ccn2020764>