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Uncommon type of Takotsubo cardiomyopathy – Case report and current view

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Takotsubo cardiomyopathy is a heart disease that imitates acute myocardial infarction. Classical findings include apical and mid segment hypokinesia. However, it may have different appearance than originally described. In our case report we describe a case of a woman with tako-tsubo cardiomyopathy (TTC), who was admitted to hospital after a stressful event because of chest pain, with smooth coronary arteries on coronary angiography and mild elevation of troponin-I level. Electrocardiogram corresponded with non-Q myocardial infarction of inferior wall. Following left ventricle ventriculography, echocardiography and magnetic resonance, impaired contractility of the basal part of inferior wall was noticed, together with good overall ejection fraction. Full recovery was attained in five weeks after the onset. This impairment of left ventricle is not typical for TTC. In our patient, the basal part of left ventricle was involved, and not the apex as is usual in TTC. This finding corresponds to rare “inverted” form of TTC. Another atypical feature is segmental involvement that, moreover, covered the inferior wall. This morphological pattern, according to our best knowledge, has not yet been described in literature.

Pathophysiology, epidemiology and clinical significance are shortly reviewed in the paper.

Biography

A Qadeer Negahban graduated from Masaryk University in Brno Czech Republic in 2003. He completed his Postgradual training and Specialty training in Cardiology at St. Anne's University Hospital and ICRC in Brno Czech Republic. The subject of his PhD studies is Takotsubo cardiomyopathy. He has published the first case of uncommon type of Takotsubo cardiomyopathy in peer review journal *Cor et Vasa*. He is the main investigator for the research, genetic polymorphisms in estrogenic receptors and their association with Takotsubo cardiomyopathy – final results to be published very soon.

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