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## Cardiac rupture in Takotsubo cardiomyopathy

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Takotsubo cardiomyopathy (TCM) was characterized by transient left ventricular dysfunction usually involving antero apical and infero apical regions of the myocardium with ST segment changes or T-wave inversion and minimal release of cardiac enzymes in the absence of significant coronary artery disease (CAD). TCM was in general associated with good prognosis, although a minority of patients develops severe hemodynamic complications, including cardiogenic shock, life-threatening arrhythmias and cardiac rupture (CR). Isolated left ventricular impairment is the most common variant of this entity, but right ventricular involvement is also recognized and was associated with poor prognosis. Until January 2015, 14 cases of CR have been reported; included right or left ventricular wall rupture or ventricular septal perforation (VSP) VSP was reported in 4 cases 2 of them who survived were treated with open heart surgery. We are reporting the case of a female patient with acute T waves changes in antero-lateral leads in basal ECG, minor enzymes elevation; anterior and apical hypokinesia of the left ventricle and hypokinesia of the right ventricle observed at admission with trans-thoracic echocardiography (TE) and without significant CAD in the coronary angiogram, four days later she develop cardiogenic shock with left and right severe heart failure and in a new TE a VSP was observed and was located at 10mm of the left ventricular apex. The VSP was repaired successfully percutaneously using an Amplatzer device. Patient had a rapid improvement of her ventricular function and had hospital discharge three days later. TCM can be associated with severe complications including cardiac rupture and VSP. At our knowledge, this is the first reported case in the literature using a percutaneous endovascular technique to repair it.

### Biography

Alfredo E Rodriguez graduated from Córdoba National Medical University, Argentina and completed his PhD from the Cordoba Catholic School of Medicine. He is Director of Centro de Estudios en Cardiología Intervencionista, a premier Research Organization and Head of the Cardiology Department of Sanatorio Otamendi, Buenos Aires, Argentina. He has published more than 250 papers in major peer review journals and also was Editor of four cardiology books the last one published in September 2015 by Springer. He is Editor-In-Chief of the Journal "Revista Argentina de Cardioangiología Intervencionista" and has been serving as an Editorial Board Member of worldwide repute Journals such as *Euro-Intervention*, *JACC Cardiovascular Interventions*, *World Journal of Cardiology*, *Drug Designing Journal* (2014), *Journal of Developing Drugs* (2014). He is also frequent reviewer from major cardiology and interventional cardiology Journals.

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