Reviewer's report

Title: Successful occlusion of ventricular septal rupture in myocardial infarction under the guidance of echocardiography

Version: 0 Date: 12 May 2019

Reviewer: Eugenio Quaini

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The Authors report a case of postinfarction interventricular septal rupture (PIVSR) successfully treated with a transcatheter occlusion.

Early closure of post-AMI VSR is advisable before establishment of multiorgan failure. The gold standard is still surgical repair with concurrent CABG. It has been stated that the combined use of ventricular support, more complete revascularization, and earlier intervention can improve outcomes. The application of this therapy to all patients might not be reasonable, especially when patients are critically ill or have multiple comorbidities. There is evidence supporting transcatheter device closure of post-MI VSDs. An interventional approach offers such patients the possibility of avoiding a major operation.

The Literature is reach even if of small series or case reports.


Percutaneous closure is a potential technique in a select group of patients. The presence of cardiogenic shock and closure in the acute phase after VSR diagnosis are important risk factors of mortality. Device implantation is in general successful with few procedure-related complications. Reduction of the shunt fraction has been reported frequently. This technique is a less invasive alternative to surgical treatment and should be applied on a case-by-case basis.

The present paper needs a revision process.

- Clinical and hemodynamic conditions of the patient should be precised
- The technical aspects of the procedure should be defined
- The type of occluder device and the reason for the choice should be described
Level of interest
Please indicate how interesting you found the manuscript:

An article of limited interest

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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