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IMAGES IN CARDIOLOGY

Percutaneous device closure of ventricular septal defect post-acute myocardial infarction and severe heart failure: possible alternative to surgery in selected cases or just a bridge to surgery?



Comunicación interventricular postinfarto de miocardio agudo y falla cardiaca grave tratada mediante cierre percutáneo con dispositivo: ¿es una alternativa posible a la cirugía en casos seleccionados, o solo un puente a la intervención?

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KEYWORDS

Percutaneous Device Closure; Severe Heart Failure

PALABRAS CLAVE

Comunicación interventricular postinfarto; Falla cardiaca

(Fig F). The patient was taken to emergency surgery. Inspection of the occluder device showed extension of the VSD at the inferior and superior border (Fig G). The VSD was closed with a Dacron single patch (Fig HD). The clinical course was

A 77 year-old woman with STEMI, who underwent

thrombolysis and coronary angiography, severe three-vessel coronary artery disease and clinical features of heart failure.

The surgery was postponed. At six weeks a trans-thoracic

echocardiography (TTE) showed a ventricular septal defect (VSD). She was referred to our Institution. The patient was in severe cardiogenic shock, requiring inotropic support and

mechanical assistance. A RT3D transesophageal echocar-

diogram (TEE) showed a VSD (Fig A) and severe shunt by

color Doppler. Schematic figure of the VSD (E). The decision was made to proceed with percutaneous closure of VSD. An occluder device was placed guided by TEE (Fig C), which confirmed adequate positioning with minimal residual shunt

The clinical course of the patient was initially good, but a week ago she deteriorated. TEE showed a significant leakage

com with a Dac excellent.

(Fig D).

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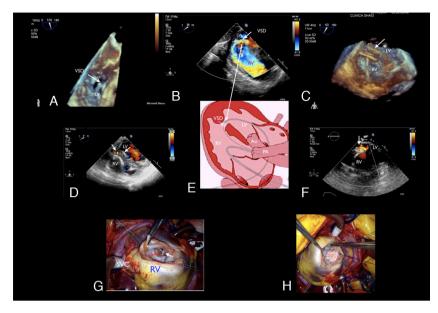


Figure 1