

IMAGE IN CARDIOLOGY

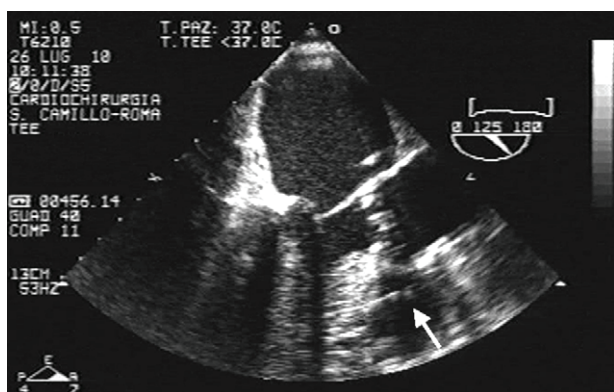
## Echocardiographic findings of iatrogenic septal defect during TA-AVI

### Achados ecocardiograficos de comunicação interventricular iatrogênica durante TA-AVI

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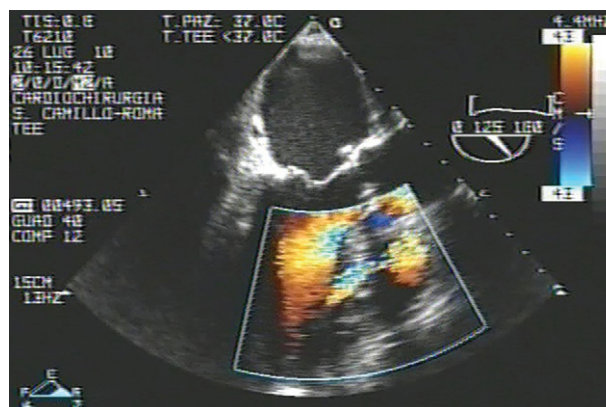
Received 5 August 2011; accepted 16 September 2011



**Figure 1** Intraoperative transesophageal echocardiography (TEE): valvuloplasty catheter impinging on the interventricular septum (white arrow).

Peri-procedural complications may occur in transapical aortic valve implantation (TA-AVI).

On intraoperative transesophageal echocardiography, after apical puncture, the valvuloplasty catheter impinged



**Figure 2** Intraoperative TEE: a clear left-to-right shunt was detected on color Doppler.

on the interventricular septum (Fig. 1, Video 1). When the catheter was pulled back, an iatrogenic ventricular septal defect (VSD) with a clear left-to-right shunt was detected (Fig. 2, Video 2). TA-AVI was then performed without any other complications. One year later the patient was asymptomatic and in good clinical condition. The VSD

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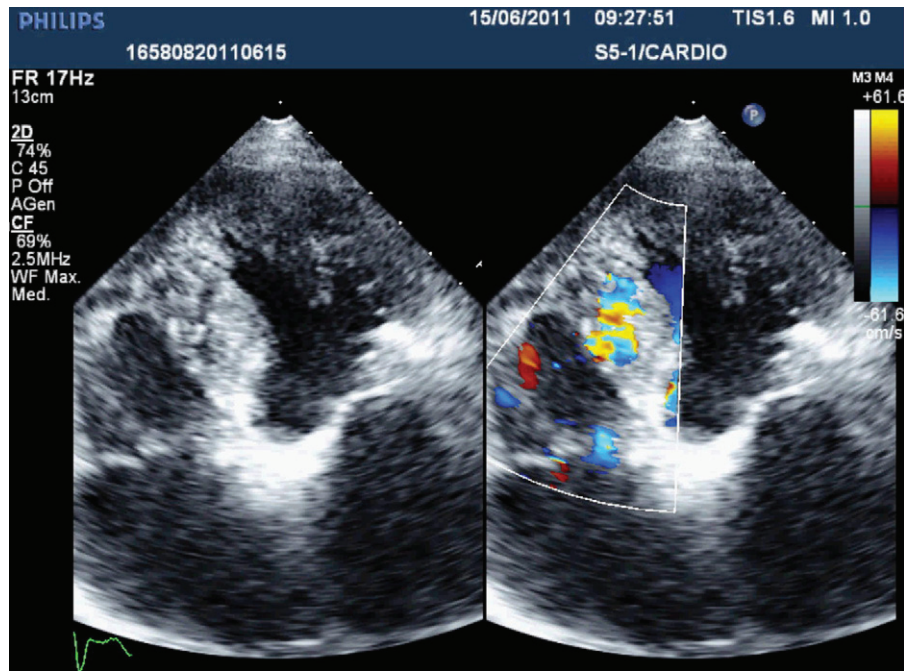


Figure 3 Follow-up TTE: the VSD was still clear and patent.

was confirmed by transthoracic echocardiography (Fig. 3, Video 3), with a  $Q_p/Q_s$  of 1.2.

### Conflicts of interest

The authors have no conflicts of interest to declare.

### Appendix A. SUPPLEMENTARY MATERIAL

Supplementary material associated with this article can be found in the online version available at [doi:10.1016/j.repc.2011.12.007](https://doi.org/10.1016/j.repc.2011.12.007).