Echocardiographic findings of iatrogenic septal defect during TA-AVI

Achados ecocardiograficos de comunicação interventricular iatrogênica durante TA-AVI

Paolo Giuseppe Pino, Amedeo Pergolini, Giordano Zampi*

Department of Cardiovascular Science, "S. Camillo-Forlanini" Hospital, Rome, Italy

Received 5 August 2011; accepted 16 September 2011
Available online 9 January 2012

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

On intraoperative transesophageal echocardiography, after apical puncture, the valvuloplasty catheter impinged on the interventricular septum (Video 1). When the catheter was pulled back, an iatrogenic ventricular septal defect (VSD) with a clear left-to-right shunt was detected (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

* Corresponding author.
E-mail address: giordano.zampi@alice.it (G. Zampi).
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.