CE-Perimount aortic bioprosthesis in a 59-year-old-man, implanted 8 years ago, showed non-infective severe structural deterioration. Preoperative echocardiogram demonstrated a prolapsing cusp (Fig. 1(A–C)); however, intra-operative echocardiogram and findings revealed a 'missing' leaflet (Figs. 1(D), 2(A and B) and Video 1).

No embolic complication occurred. Such patients should be operated emergently irrespective of haemodynamic status.

Appendix A. Supplementary data

Supplementary data associated with this article (Video 1) can be found, in the online version, at doi:10.1016/j.ejcts.2010.12.001.