A tumour (papillary fibroelastoma) on the non-coronary cusp of the aortic valve (Fig. 1) in a 61-year-old woman was completely resected with the support of a high-definition video-thoracoscope system. This provided extremely clear images on networked high-definition monitors, enabling a senior surgeon on-site to advise the operator.

Fig. 1. A tumour of 8 mm × 5 mm × 5 mm in size located on the ventricular surface of the non-coronary cusp of the aortic valve, adjacent to the nodule of Arantius. The tumour was attached by a pedicle to the aortic valve cusp.