Virtual angioscopy from multi-detector row computed tomography for an anastomotic aneurysm

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An anastomotic false aneurysm between the arch graft and the elephant trunk was presented (Fig. 1). Virtual angioscopy from the multi-detector row computed tomography did not only visualize the exact point of leakage, but also helped to confirm the integrity of the remaining anastomotic line (Fig. 2). Local repair was successfully performed.

Fig. 1. Computed axial tomography (left) and a schema of the previous operation showing the point of leakage (right). A graft with four side-arms had been used and the fourth branch on the antero-lateral wall had been closed during the previous total arch replacement.

Fig. 2. Virtual angioscopic reconstruction (left) and its schema (right). The lumen of the aortic arch was viewed from the distal side. A small hole responsible for the anastomotic aneurysm was visualized on the antero-lateral wall.