Sixty-nine-year-old male, with a history of mitral-aortic mechanical valve replacement and ascending aorta repair with a tubular prosthesis two years prior, who was admitted with biventricular heart failure (predominantly right). In the echocardiogram, highlighted the existence of a severely dilated and dysfunctional right ventricle (RV), a prostheses with high gradients and a severe pulmonary hypertension; the transesophageal echocardiography (TEE) ruled out prosthetic thrombosis. By means of computed tomography, the existence of a 92 x 95 mm diameter pseudoaneurysm of the ascending aorta (AAP) was detected; this AAP was surrounding the aortic graft and compressed the right atrium (RA) (Fig. 1 [*]). A second TEE also demonstrated the

**Giant ascending aortic pseudoaneurysm fistulized into right atrium**

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![Computed tomography images. A and B: axial sections where the large pseudoaneurysm (*) is observed to be formed around the aortic tubular prosthesis, as well as the severe compression it exerts on the RA. C and D: same alterations but observed in sagittal sections made at the same levels. A: aorta; AD: right atrium; AI: left atrium; VD: right ventricle; VI: left ventricle; P: pulmonary artery.](image)

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existence of a fistula connecting the AAP to the RA. The patient underwent surgery: the fistula was closed (Fig. 2 [arrow]), and the aortic valve prosthesis together with the aortic tubular graft (which was not epithelialized and had ruptures in its proximal and distal anastomoses as origins of the PAA), were replaced by a valved tubular aortic prosthesis.

AAP is a very rare pathology; its incidence, after an aortic intervention, is < 1% and it is favored by perioperative infections. Usually, its origin is in aortotomy or anastomosis stitches or suture lines (of aortocoronary bypass prostheses or grafts), or at puncture, aortic cannulation or clamping points. Clinical presentation varies according to its localization, size and compression on adjacent structures; however, its presentation as right heart dysfunction (superior vena cava syndrome, RV inflow tract obstruction, or fistula into pulmonary artery, RA or RV) is exceptional.

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Conflict of interests
None.

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Protection of people and animal subjects. The authors declare that no experiments were performed on humans or animals for this study.

Confidentiality of data. The authors declare that they have followed the protocols of their work center on the publication of patient data.

Right to privacy and informed consent. The authors have obtained written informed consent of the patients and/or subjects mentioned in the article. The corresponding author is in possession of this document.

References