A 47-year-old man was transferred to the emergency department for a huge ascending aortic pseudoaneurysm diagnosed at another hospital. The patient presented with chest discomfort for several weeks, which aggravated recently. He had a history of arterial hypertension and severe aortic regurgitation that were treated with aortic valve replacement with a mechanical valve 5 years ago in the other hospital. He had also been taking captopril (angiotensin-converting enzyme inhibitor), furosemide (diuretics), and warfarin sodium. On physical examination, a mechanical valve click was heard without a murmur, and his heart rate was 77 bpm, with blood pressure of 105/70 mm Hg. Laboratory data revealed anemia (hemoglobin, 9.2 g/dL), prolonged prothrombin time (International Normalization Ratio [INR], 5.16), and activated partial thromboplastin time (63.8 seconds). Initial chest x-ray showed mediastinal enlargement and a large left hilar shadow (Figure 1, arrow). Computed tomography of the chest and abdomen with iodinated contrast showed a huge (106 mm) ascending aortic aneurysm suspicious of impending rupture (Figures 2 and 3). Urgent aneurysmectomy, graft replacement of ascending aorta, and hemi-arch were performed. Operative findings showed a 6-cm pseudoaneurysm arising from the anterolateral side of the ascending aorta, with a 1-cm opening that was filled with organized thrombi (Figure 4). Pathological findings suggested that the cause of the pseudoaneurysm was a penetrating atherosclerotic ulcer of the ascending aorta. The patient’s postoperative course was uneventful, and he was discharged from the hospital on postoperative day 7.

Disclosures
None.
Operative findings showed a 6-cm pseudoaneurysm arising from the anterolateral side of the ascending aorta, with a 1-cm opening (asterisk) that was filled with organized thrombi. H indicates head; F, feet.

Figure 3. Chest computed tomography with contrast showed a huge (106 mm) ascending aortic aneurysm. As indicates ascending aorta; An, aneurysm.

Figure 4. Operative findings showed a 6-cm pseudoaneurysm arising from the anterolateral side of the ascending aorta, with a 1-cm opening (asterisk) that was filled with organized thrombi. H indicates head; F, feet.
Huge Ascending Aortic Pseudoaneurysm Caused By a Penetrating Atherosclerotic Ulcer

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