A 69-year-old man presented with acute onset shortness of breath. He had a history of coronary artery bypass grafting 40 years prior. Chest x-ray showed an 8-cm mass that was inseparable from the right cardiac margin (Figure 1). Chest computed tomography scan was performed and was suspicious for a bypass graft aneurysm.

Three-dimensional coronary computed tomography showed a giant aneurysm 7.7 cm in diameter arising from the right coronary artery—saphenous vein graft (Figure 2) (Supplementary Video 1, available online at http://www.mayoclinicproceedings.org). The mass physically compressed the right atrium, and deformed the base of the right ventricle. Although the graft was patent, there was large amount of thrombus inside. A patent fistula extended posteriorly to the right atrium.

Coronary angiography was performed to reveal the patency of the graft (Supplementary Video 2, available online at http://www.mayoclinicproceedings.org). Saphenous vein graft aneurysms are rare complications after coronary artery bypass grafting and may cause local compression, dyspnea, angina, or death by sudden rupture. Multimodality imaging is helpful to delineate the anatomy. Our patient is being evaluated by cardiac surgery for open repair.

SUPPLEMENTAL ONLINE MATERIAL

Supplemental material can be found online at http://www.mayoclinicproceedings.org. Supplemental material attached to journal articles has not been edited, and the authors take responsibility for the accuracy of all data.