Hemoptysis from a Ruptured Saphenous Vein Graft Aneurysm

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Key words: aneurysm, hemoptysis, rupture, saphenous vein graft

(Intern Med 57: 143-144, 2018)
(DOI: 10.2169/internalmedicine.9116-17)

Picture 1.

Picture 2.
An 89-year-old man was admitted due to hemoptysis. Chest computed tomography (CT) revealed a consolidation shadow predominantly in the left upper lobe (Picture 1) and an adjacent anterior mediastinal mass (arrow, Picture 2A) which was identified to be a saphenous vein graft (SVG) aneurysm by contrast-enhanced CT (Picture 2B). He had a history of coronary artery bypass grafting (CABG) 24 years prior to this presentation. Since he was unable to undergo bronchoscopy due to severe cardiac dysfunction and angiography failed to identify the culprit bronchial artery, he was treated conservatively by discontinuing warfarin and aspirin. Chest CT performed 9 months later demonstrated air in the aneurysm directly connected to left B3b bronchus through a pinhole [arrow, sequential axial (A), coronal (B), and sagittal plane (C) of Picture 3]. The rupture of a SVG aneurysm causing hemoptysis is an extremely rare complication after CABG, but it can sometimes be fatal (1, 2). Physicians therefore need to be aware of such an unusual cause of hemoptysis.

The authors state that they have no Conflict of Interest (COI).

References

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