Anomalous systemic arterial supply to the basal segment of the left lung with huge pseudoaneurysm

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A 35-year-old man was admitted with recurrent hemoptysis. Preoperative image studies revealed large aneurysmal dilatation of an anomalous systemic artery arising from the descending thoracic aorta entering the basal segment of the left lung (Figs. 1 and 2). An uneventful lobectomy was performed. Specimen examination showed no evidence of a pulmonary sequestration.

Fig. 1. (A and B) Chest X-ray showing a large well-defined mass in the left lower thorax. (C) Transverse CT and (D) three-dimensional image of CT angiography demonstrated an anomalous systemic artery with aneurysm entering the basal segment of the left lower lobe.

Fig. 2. The left lower lobe section showing pseudoaneurysm measuring 8.6 cm × 7.5 cm. There was no evidence of abnormal pulmonary arterial supply and venous drainage in the compressed surrounding lung parenchyma.