Anomalous systemic arterial supply to normal basal segments of the left lung without sequestration

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Computed tomography (CT) angiographic image of a 25-year old male patient admitted with haemoptysis displays the large systemic artery originating from the descending aorta and supplying the left lower lobe. No left lower basal segment pulmonary artery was observed (Fig. 1). Division of the abnormal artery with left lower lobectomy was performed (Fig. 2). The patient was discharged without any complication.

Figure 1: (A) Volume-rendered CT angiographic image, posterior view, displays the large systemic artery originating from the descending aorta and supplying the left lower lobe. Also note the diminutive apical segmental artery, below which no pulmonary artery branches to the basal segments could be visualized. (B) Axial CT image at lung window shows patent and normal subsegmental bronchi (arrows) of the left lower lobe, which also has slightly increased attenuation and diminished volume.

Figure 2: Division of the abnormal artery. The descending aorta is marked with arrow.