Solitary fibrous tumour of the mediastinal pleura: the origin detected with three-dimensional computed tomography angiography

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Received 28 August 2012; received in revised form 15 October 2012; accepted 2 November 2012

Keywords: Solitary fibrous tumour of the mediastinal pleura • 3D-CT angiography

We present an intrathoracic mass suspected of originating in the mediastinum on three-dimensional computed tomography (3D-CT) angiography. Although the origin was not determined on CT (Fig. 1), 3D-CT angiography clearly demonstrated the feeding artery (Fig. 2). The vessel was easily identified during operation, and the tumour was diagnosed as a solitary fibrous tumour.

Figure 1: Contrast-enhanced computed tomography demonstrated a well-circumscribed, smooth and inhomogeneous mass in the left thorax.

Figure 2: Three-dimensional computed tomography angiography showed that the blood supply to the lesion was continuing from a pericardiacophrenic artery (PCPA), which was a branch of the left internal thoracic artery (LITA), not from the lung or the chest wall.