Lung Cancer That Extended to the Left Atrium Through the Pulmonary Vein: A Case Report

Xin Xu

Lanzhou University Second Hospital <https://orcid.org/0000-0002-1069-2149>

Ping Xu

Lanzhou University Second Hospital

Ting Ting Wu

Lanzhou University Second Hospital

Guo Dong Shang (✉ glxyys2010@163.com)

Lanzhou University Second Hospital

Case report

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Abstract

Background: Metastatic cardiac tumors have been reported in up to 25% of patients with lung cancer, but detection of cardiac involvement via pulmonary veins is neither uncommon nor easy in the routine work.

Case presentation: A 68-year-old woman with primary lung cancer was admitted to the hospital with pain in her left leg for 6 months and hemoptysis for one week. TTE detected that a hyperechoic mass in the left atrium which was come from the left inferior pulmonary vein. The result was confirmed by computed tomography.

Conclusions: Multimodality imaging should be advocated in the evaluation of cardiac masses especially for patient who has primary tumors.

Full Text

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Figures

Figure 1

CT scan: Left central lung cancer with right lung metastases

Figure 2

CT invasion of the left pulmonary vein and tumor thrombus in the LA

Figure 3

B-mode: hyperechoic mass in the left atrium, the boundary was clear and the base was broad, the internal echo was uniform. Colour Doppler mode: the mass obstructed the entrance of the left pulmonary vein.