

Incidental Vascular Findings on Computed Tomography Angiography in Lung Cancer Patients

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Abstract

CT is a one of major diagnostic modalities in work-up of patients with the lung cancer. Defining of lung cancer and its staging is an interdisciplinary process. Many patients with lung cancer have accompanying diseases of heart and great vessels. CT-angiography (CTA) is an effective diagnostic modality for timely detection of these anomalies and diseases. Results of CT-angiography in 85 patients were analyzed. In 52 of 85 (61 %) patients CTA detected coronary and in 50 (59 %) cases — aortic atherosclerosis. CTA found 9 (11 %) cases of congenital anomalies of systemic and pulmonary veins, in 8 (9,4 %) — aortic arch anomalies and in 4 (4,7 %) — congenital anomalies of pulmonary arteries and veins. In most cases these finding were incidental and had not any clinical significance, but in 3 (4 %) cases they were important for patient management. Technical progress in CT gives an opportunity to perform while-chest CTA with cardiac gating.

Key words: Lung Cancer, Computery Tomography, Coronary Arteries, Aorta, Atherosclerosis.

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