

Tc-99m tetrofosmin 신티그래피로 우연히 발견된 흉선암종

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Detection of Occult Thymoma Using Tc-99m tetrofosmin Scintigraphy

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Tetrofosmin is a ligand that forms a lipophilic, cationic complex with Tc-99m.¹⁾ Tc-99m tetrofosmin was developed as a myocardial perfusion imaging agent and also used to depict tumors.¹⁻³⁾ Mediastinal tumors is also detected by Tc-99m tetrofosmin.²⁻⁵⁾ We report a case of extracardiac mediastinal activity detected by Tc-99m tetrofosmin scintigraphy, which revealed thymoma. (Nucl Med Mol Imaging 2008;42(3):259-260)

Key Words: Tc-99m tetrofosmin, thymoma, SPECT

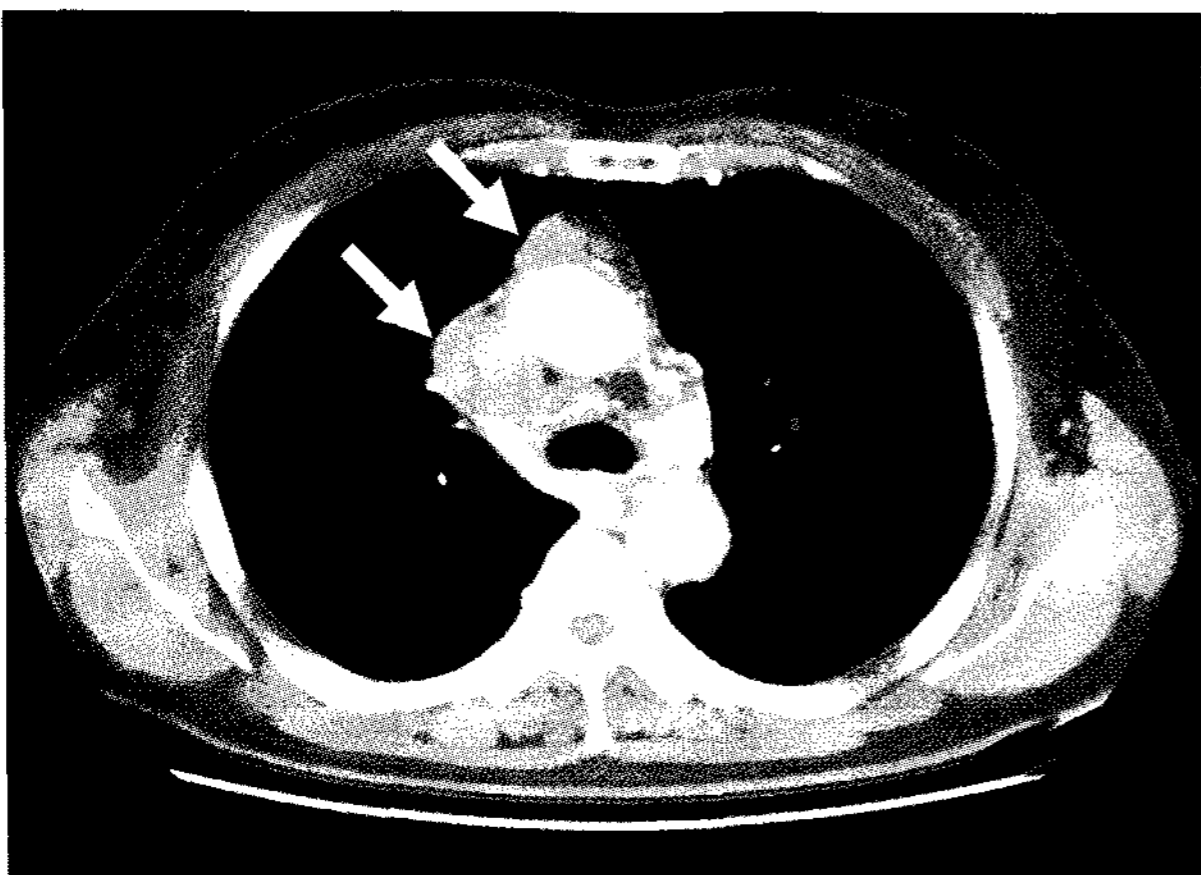


Figure 1. A 64-year-old man detected facial swelling and underwent chest CT on the 29th day of April, 2005. Chest CT revealed about 3.5 cm sized mass in the superior vena cava and multiple lymphadenopathies (arrow) in the anterior mediastinum.

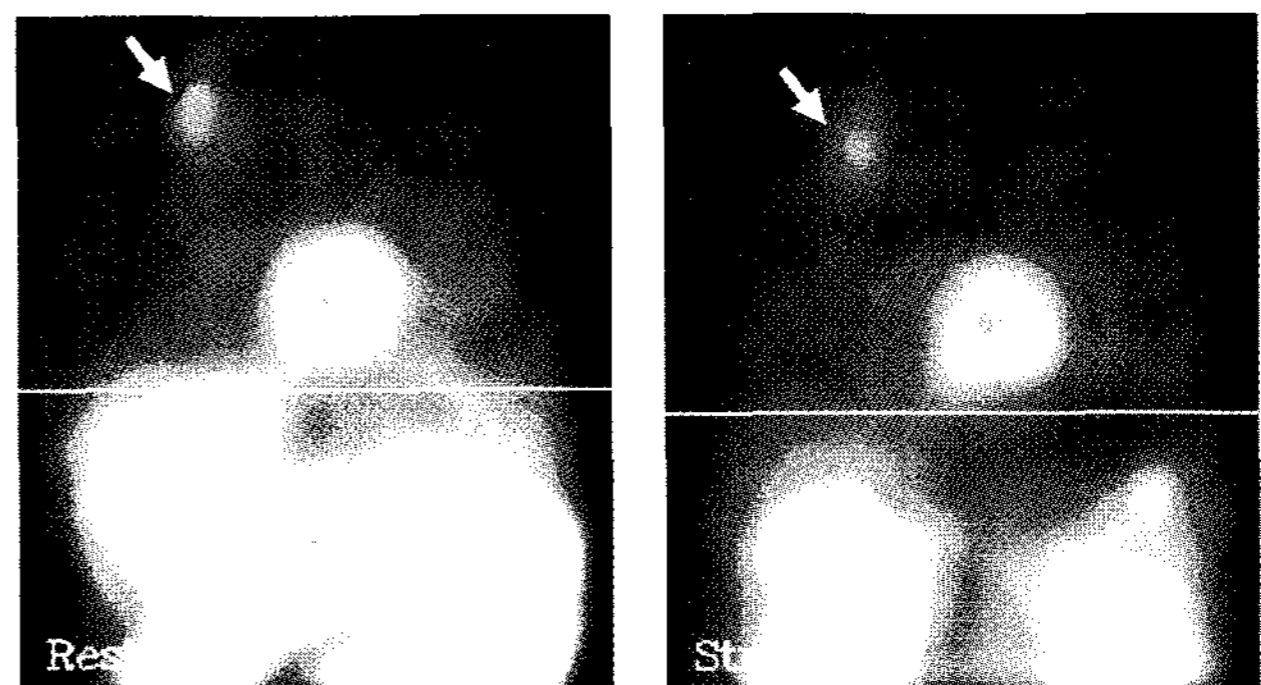


Figure 2. He also had intermittent chest pain, so underwent Tc-99m tetrofosmin scintigraphy on the 4th day of May. Extracardiac mediastinal activity was visualized on both the resting and stress images (arrow).

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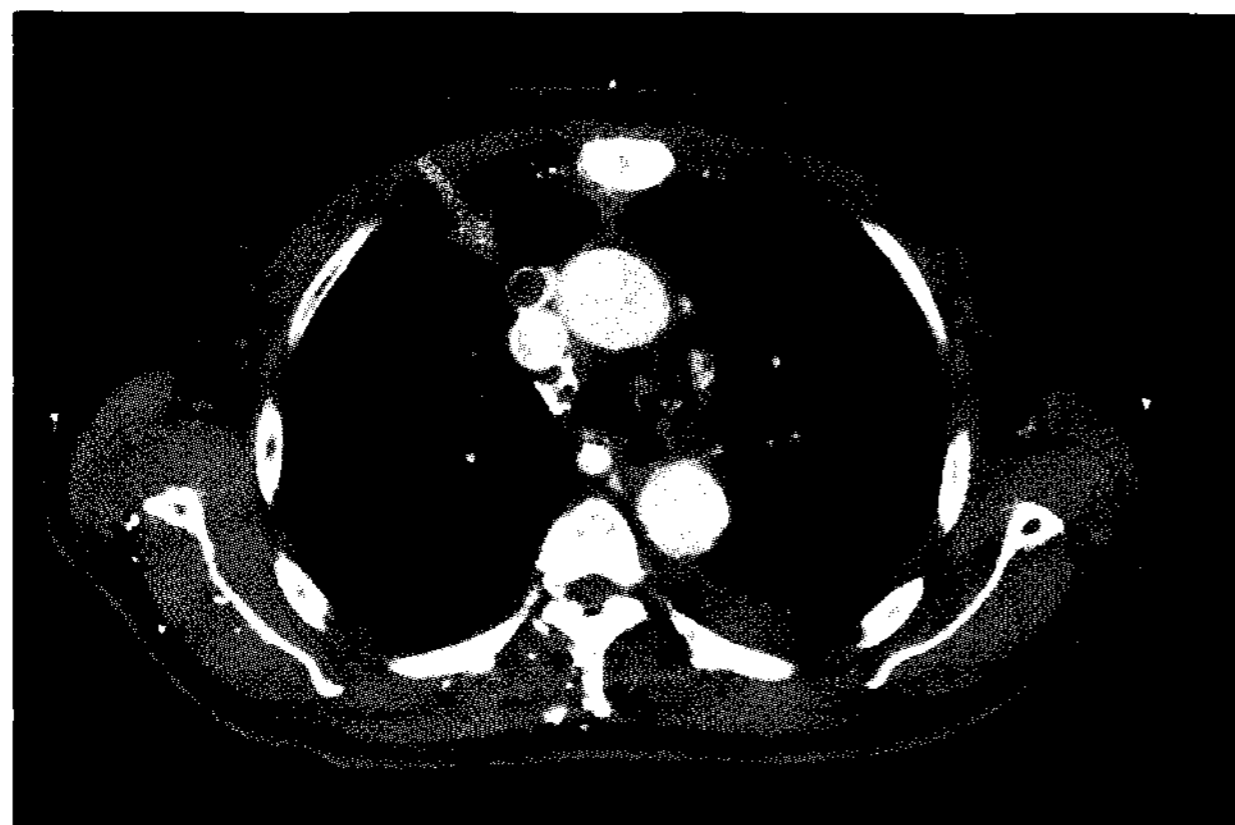


Figure 3. The patient was transferred to Seoul National University Hospital and underwent median sternotomy, mass en bloc excision (total thymus, superior vena cava, innominate vein, azygous vein, pericardium) and anastomosis between right brachiocephalic vein and right atrium, innominate vein and right auricle with Gore tex vascular graft on the 13th day of June (arrow). Pathologic investigation revealed type B3 thymoma (well differentiated thymic carcinoma), invading mediastinal fat. It also revealed the metastasis to superior vena cava. The patient received 1400 cGy postoperative mediastinal radiation in Chonnam National University Hospital.

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