Colloid liver SPECT of hepatic alveolar echinococcosis

Naoto Watanabe, Hikaru Seto, Tetsuya Kamei, Ryusuke Futatsuya, Masashi Shimizu, Masanari Kageyama and Masao Kakishita

Department of Radiology, Toyama Medical and Pharmaceutical University, Toyama, Japan

Seventy-one-year-old man had a liver mass. He lived in Hokkaido, where there is an epidemic of hydatid disease. Abdominal US image showed an echogenic mass. CT revealed a low density mass with an unclear margin. A 99mTc-Sulfur colloid liver SPECT study was performed to detect the liver mass. The SPECT scan was done after intravenous administration of 5 mCi of 99mTc-sulfur colloid, and it revealed a lack of uptake in the liver mass. The liver SPECT findings were correlated with subsequent CT and US imaging. Echo-guided biopsy showed a PAS-positive cuticle layer of echinococcosis in the necrotic tissue. This is the first report of a case of detection of hepatic alveolar echinococcosis by means of a colloid liver SPECT imaging procedure.

Key words: colloid liver SPECT, hepatic alveolar echinococcosis