Annals of Nuclear Medicine Vol. 15, No. 3, 289–291, 2001

Accumulation of ^{67}Ga citrate in early pregnancy

Hiromasa KUROSAKI, Yoshihiro SAITO, Miho KAWASHIMA, Takeshi EBARA, Michitaka YAMAKAWA and Norio MITSUHASHI

Department of Radiology and Radiation Oncology, Gunma University School of Medicine

A 26-year-old pregnant woman complained of chest pain and dyspnea and was diagnosed with malignant lymphoma of the mediastinum. To determine the stage of malignant lymphoma, tumor scintigraphy with ^{67}Ga citrate was performed. ^{67}Ga scintigraphy revealed an abnormal accumulation in the center of the pelvic cavity. An artificial abortion was performed, and the early pregnancy obtained from the abortion showed a prominent uptake of ^{67}Ga citrate *ex vivo.* ^{67}Ga citrate re-examination, which was performed immediately after the abortion, showed no abnormal accumulation in the pelvic cavity. To our knowledge, this is the first medical report on an aborted tissue investigated *ex vivo* to determine whether it demonstrated increased uptake of ^{67}Ga citrate.

Key words: gallium scintigraphy, pregnancy, placenta, fetal membrane, early pregnancy