Accumulation of Te-99m HMDP in hepatic metastasis from colon carcinoma without detectable calcification

Susumu Shioshi,† Tetsuo Kuroki,* Ikuh Hasagawa,* Hiroshi Nishio,** Kiyohiro Azuma*** and Hironobu Ochi***

*Third Department of Internal Medicine, **Department of Radiology and ***Division of Nuclear Medicine, Osaka City University Medical School

A 51-year-old man was found to have hepatic metastasis from colon carcinoma. Bone scintigraphy with 99mTc-hydroxymethylene diposphonate showed a ringlike accumulation corresponding to the hepatic mass, which was without calcification on computed tomography. Treatment with chemotherapeutic agents was started. After 4 months, computed tomography showed that the mass was smaller than before and that the margin was calcified. The extraosseous accumulation of the radionuclide may be evidence supporting earlier speculation on calcification that could not yet be detected by computed tomography.

Key words: bone scanning, technetium-99m-HMDP, liver accumulation, metastatic tumor, extraosseous accumulation