

Bone Scanning of Heterotropic Ossifications

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We took bone scanning to eight patients with traumatic spinal cord injury with Tc-99m-labeled phosphate compounds.

On the fresh six cases, we aimed to early detect of heterotropic ossifications and to observe of its progressing. On the old two cases, we did to observe of the progressing after the extraction of heterotropic ossifications.

The results were follows;

1. In the patients with traumatic spinal cord injury, we saw the picture of the localized extraordinary accumulation nn knee and hip which developed heterotropic ossifications.
2. Observing in succession the progressing of the fresh cases for long time, their accumulation showed the patern which increased or decreased. So, we could see clearly the development parts of ossification and transition of spreading.
3. In fresh cases, using X-ray picture jointly, it is possible to early detect.
4. It is that takes effect to judge the activity of ossification in both fresh and old cases. And so, we think it gets important index for the decision of the time to excise ossification.

Bone-Scanning with Tc-99m-Phosphates

—Emphasizing its value in the bone fracture—

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We have performed the bone-scanning with Tc-99m-phosphates on the postoperative bone-diseases and bone fractures. And also we have studied the healing-process after severd half-circle of the bone of the rat with bone autoradiography and X-ray. This time we would like to report the results of our clinical experiences as well as well as animal experi-

ments.

Clinical Cases:

Studies have been done on 10 cases of the bone-fracture and 5 cases of the fixation of cervical spine. 10 mCi of Tc-99m-phosphate was injected intravenously and the scanning was performed 3—4 hours after the injection.

In fresh bone-fracture cases (5 days after