SKELETAL SCINTIGRAPHY ON THE OSTEOPOIKILOSIS
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Scintigraphic skeletal study was performed in 6 cases of the osteopoikilosis
including 4 cases of the benign bone island, which may be a solitary type of the osteo-
poikilosis.

The materials were selected incidentally from among the patients who had the skeletal
radiography. The radiographic figure shows round and spheroid in shape, and the size
ranges 2 mm and 50 mm in diameter. The location of the lesion was the epiphysis
of the long bone, pelvic bones or the vertebral body on radiograph.

Images were obtained 3 hours after the intravenous injection of 2 mmCi to 10 mmCi
of 99mTc-methylene diphosphonate(99m-MDP) and they were compared with radiographs.

Scintigraphy was positive in 2 cases (33%). One was the single lesion which size
shows 25 mm in diameter on radiograph in the proximal metaphysis of the left femor
and another case had multiple tiny lesions in the left humeral head and in the left
femoral head.

Less clinical significances of the osteopoikilosis have been evaluated. However, the positive scintigraphy on this entity
means that the lesion may be unstable because the positive scintigraphy by 99m-MDP might suggest the active metabolism
in the lesion of the bone.

BONE SCINTIGRAPHY OF FREE VASCULARIZED BONE
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We studied the value of bone scintigraphy in free revascularized bone grafts
in twenty-three cases. The cases were divided into two different groups in re-
vascularized fibular graft and iliac bone graft, and scintigraphy was carried out
using technetium-labeled methylene
diphosphonate.

There was a difference in intensity of the scintigrams over the middle area of
grafted bone between fibula and iliac bone.
Fibular grafts always had normal uptake of the radionuclide at the middle part of the
graft. Iliac bone grafts had increased uptake of the radionuclide at the middle
part of the graft on the initial bone
scintigrams, and changed gradually for
normal uptake of the radionuclide.
A hot spot with increased uptake of the
radionuclide was noted over the graft-host
juncture in both groups.