

CLINICAL SIGNIFICANT OF WHOLE BODY SCINTI-
GRAPHY IN HEMOPHILIC ARTHROPATHY

Kenji Watanabe*, Mazuna Ito*, Yukio Miura†
Hiroyasu Murayama**, Shujiro Okamoto**and
Michio Fujimaki***

Department of Orthopaedic Surgery*,
Department of Nuclear Medicine**,
Department of Clinical Pathology***,
Tokyo Medical College, Tokyo

There were 128 joints in 20 cases with hemophilic arthropathy aged from 5 to 44 years were surveyed with scintigraphy by utilizing ^{99m}Tc -phosphate compound by us recently.

Results:

1. The systemic joint-survey of the whole body can be obtained in one examination.
2. Over 85% of the scintigraphic accumulations were recognized in the cases of three or more intra-articular hemorrhages. It means that the articular lesions will become more progressively if the frequency of the bleeding attack increased.
3. The severity of the bone and joint in hemophilic arthropathy influences the results of scintigraphic accumulation, the more the severity of bone and joint increased, the more the accumulation observed. Therefore, the scintigraphy will be helpful to determine the degree of disturbance and severity of bone and joints.
4. The intra-articular hemorrhage can be detected by scintigraphy, but scintigraphic accumulation itself is difficult to determine that is caused by intra-articular bleeding or arthropathy.
5. The determination should be done carefully in children, because the R.I. accumulation in the metaphyseal region is usually increased even though the case is normal.
6. The amount of scintigraphic accumulation will be influenced by the position, in those cases suffered from contracture or ankylosis of the joints.