H. Digestive Tracts (Liver and Biliary Tract)

Hepatic Accumulation of $^{99m}$Tc-labeled-phytate in Liver Diseases

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The hepatic accumulation of $^{99m}$Tc-labeled-phytate was measured on more than 200 cases with a variety of liver diseases by using an external detector directed to the right lobe of liver. The half-time of accumulation (T-1/2) was estimated by using count-rate curves plotted. Increases of T-1/2, over 4 min, were encountered in many cases with liver cirrhosis. In other liver diseases, T-1/2 was almost less than 3 min. and the overlaps of T-1/2 were seen among them. The correlation among T-1/2 and regular liver functional tests, SGOT, SGPT, LDH, ZTT and $\gamma$-GTP, was studied, and, no correlation was indicated among them. But, TTT alone showed the possibility of correlation with T-1/2. The regional T-1/2 was measured on liver areas by using a scintillation camera coupled with a computer. Some variations of the regional T-1/2 were seen among the regions in the liver.

The blood disappearance half-time of $^{99m}$Tc-labeled phytate was measured by an external counting on the forehead of the patients simultaneously with the hepatic accumulation study. Many cases showed individually some discrepancies between the half-time of blood disappearance and that of hepatic accumulation, however, as a whole both half-times showed a good correlation.

Scintigram of Heterotopic Ossification

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In the patient whose extremities are deprived of motility from head or spinal cord injury or from hemiplegia following apoplexia, heterotopic ossification often develops near the joint. These ossifications on X-ray film were compared with scintigram by $^{99m}$Tc-phosphate. In some cases, ossification was parallel to accumulation of $^{99m}$Tc-phosphate; in the other