

Two Cases of Benign Hepatic Tumors (Echinococcus and Giant Hepatic Hemangioma)

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Abstract:

Fifty-three cases of hepatic scintiphotos by gamma camera were studied after the intravenous administration of colloidal radioisotope gold— ^{198}Au .

Among fifty-three cases, sixteen were hepatic cancer, one was hepatic fibrosarcoma and two were benign hepatic tumors, one of which was echinococcus, the other giant hepatic hemangioma and both of benign cases were presented in this report.

It is difficult to differentiate benign hepatic

tumors from those of malignant ones on the scintiphotos.

It is noteworthy that the liver scintiphotos of both benign cases revealed large, round and sharp space-occupying lesions and those findings seemed to suggest some possibility in the differential diagnosis between benign and malignant groups.

Furthermore it seems possible to expect more objective and accurate findings in the differential diagnosis by use of the color scintiphotography jointly.

A Pathodynamic Study on the Liver and the Biliary System with ^{131}I -Labeled Rose Bengal

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In order to study the liver and the biliary system pathodynamically, we utilized ^{131}I -Rose Bengal. 300 μCi of ^{131}I -Rose Bengal was injected into 6 normal patients, 11 patients with cholelithiasis and 10 with liver disease.

The information was recorded on the videotape for 2 hours after the injection through a V.T.R. on line system, in which the γ -camera was connected directly with a videotape recorder. At 60 minutes after the injection, two yolk tablets were administered.

The information, recorded on the videotape, was led to the γ -camera to show the liver image on its C.R.T.; a split area was chosen with emphasis on the left lobe of the liver and on the gall bladder. Counts per 29.7 seconds in the split area were printed by the digital printer and plotted on the semilogarithmograph. This graphic pattern was divided into three compartments by half lifes of

6.5 minutes, 9.3 minutes and 100 minutes.

A distinct accumulation of ^{131}I -Rose Bengal in the gall bladder showed 20 minutes after the injection in the gall bladder area. Counts per 29.7 seconds in the gall bladder area increased until the administration of 2 yolk tablets; after that the counts began to decrease gradually.

In the case of cholelithiasis, the image of the liver first appeared on the C.R.T. just 20 minutes after the injection; that of the gall bladder was observed 50 minutes after the injection. The three phases for the accumulation curve on the left lobe of the liver were not different from those of normal cases. The gall bladder image on the C.R.T. appeared 25 minutes after the injection in the case of cholelithiasis—a slight delay compared with normal cases. But, in the graphic pattern the distinct accumulation in the gall bladder was