

6) Pancreas

Pancreas Scanning

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^{75}Se -selenomethionine pancreas scanning has been performed in 37 cases consisted of pancreatitis 12, benign pancreas tumor 3, pancreas cyst 1, pancreas carcinoma 7, periampullary carcinoma 4, renal carcinoma 2, cholelithiasis 2, reticulosarcoma 2 and normal 4. The 3" scanner with 37 hole collimator (Shimadzu) was used.

The pancreas successfully scanned were 35 cases among the 37 cases in total. The false diagnosis from scanning was obtained in 5 cases consisted of insuloma 2, pancreas carcinoma 1 and periampullary carcinoma 2. In 2 cases of insuloma no changes can be shown, in a case of pancreas carcinoma the

site of tumor can not be determined and in 2 cases of periampullary carcinoma there are deficits in the region of the head which was false positive.

The information obtained from scanning was compared with that of pancreas angiography and other radiological studies.

It is concluded that because of difficulty to make diagnosis in the pancreas conditions by the present various examinations, the thorough observations of the findings obtained from pancreas scanning and other x-ray examinations such as pancreas angiography and pneumostratipacreatography is necessary.

On the Visualization of Pancreatic Cancer by a Scintiscanning Method

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To improve the visualization of pancreatic cancer by a Scintiscanning method, I have developed a new honey cone collimator with 19 holes and a septer of 2mm thickness. With this collimator, we examined 37 cases with pancreatic diseases last one year. Ten patients of pancreatic cancer were examined by scintiscanning, selective coeliac angiography, gastrointestinal X-ray examinations, secretin test and citrogy. Nine patients of above cases showed a typical pattern of pancreatic cancer

by scanning.

However one case showed a normal pattern in scanning and no abnormality in other examinations, so we could not diagnosed as pancreatic cancer.

Five patients of an extra pancreatic tumor and one patient of gastric ulcer showed the same pattern as that of pancreatic cancer.

It may be difficult to make correct diagnosis for pancreatic cancer only by a scanning.