

that the introduction of known, exogenous, carcinogenic agents, such as pitch and tar, are capable of producing infiltrative, glandular proliferations (adenocarcinoma without metastases) within 5 to 12 months after their introduction into the gallbladder of guinea pigs.

h. PANCREAS

No cases of occupational cancer of the pancreas are on record. There occur parasitic cysts in the pancreas (ecchinococcus infection), and, occasionally, cancer of the pancreas in connection with a distosomiasis of this organ (Stewart). Two cases of carcinoma of the head of the pancreas occurring in conjunction with a distosomiasis were reported by Romanoff. Trauma to the pancreas may result in the formation of blood cysts, proteolytic cysts, and retention cysts, the latter being caused by cicatricial obstruction of pancreatic ducts (Mahorner and Mattson; and Hueper). Traumatic pancreatic cysts become evident three to five weeks after the abdominal injury, and are seen most frequently in persons between 10 to 30 years old, as the pancreas is more vulnerable in the young than in the old (Honigsmann). Cases of traumatic pancreatic cysts were reported by Rose; Snead; Körte; McWhorter; Judd, Mattson, and Mahorner. Körte found a traumatic history (abdominal) in 23 out of 121 cases of pancreatic cysts. Judd and co-workers recorded such data in 8 of 47 cases, and McWhorter stated that 15 per cent of all pancreatic cysts had a traumatic origin.

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