Carcinoma of the gall bladder presenting as a retrograde intussusception of the duodenum

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Summary
A case of carcinoma of the gall bladder presenting as a retrograde intussusception of the duodenum is described. Although this is a rare presentation of the disease, adequate radiography and endoscopy will help to establish the diagnosis.

Introduction
Obstruction of the duodenum when it occurs is usually due to scarring from a peptic ulcer. Duodenal diverticula, diaphragmatic webs, annular pancreas, superior mesenteric artery or tumours are rarely causative factors. Carcinoma of the gall bladder causing duodenal obstruction is very unusual (Friedman, Mehler and Ginzburg, 1969). A case of this rare occurrence is discussed which presented with the signs and symptoms of a retrograde intussusception of the duodenum. This is the first recorded case presenting in this manner.

Case report
An 89-year-old woman was admitted as an emergency with a 3-week history of anorexia, vomiting and weight loss. She had suffered from attacks of right hypochondral pain which had recently become more severe. On examination she was very fit for her age, but she was dehydrated, had abdominal distension and mild right hypochondrial tenderness. No masses were palpable. Her serum electrolytes confirmed hypochloraemic alkalosis. Plain X-rays were unremarkable. Rehydration was commenced and a limited barium meal showed hold up distal to the duodenal cap. A constant filling defect was noted which contained rings of barium typical of the 'onion rings' found with intussusception (Fig. 1). Endoscopy showed a concentric ring of mucosa projecting in from the second part of the duodenum. The gastroscope could be passed into the third part of the duodenum but on withdrawal a polypoid mass of mucosa was evident at the junction of the 1st and 2nd parts of the duodenum. It was concluded that this was due to either a neoplastic or inflammatory mass invaginating the duodenum.

Colon and was invaginating the 2nd part of the duodenum causing obstruction. A cholecystectomy was performed; general laparotomy elicited no further abnormality. Postoperatively the patient recovered well but developed bronchopneumonia and died on the 27th postoperative day. Histology showed a poorly differentiated carcinoma of the gall bladder.

Discussion
Carcinoma of the gall bladder is a rare tumour, accounting for less than 1% of all carcinomas in Britain (Solan and Jackson, 1971). It occurs about three times more commonly in females than in males (Gerst, 1961; Strauch, 1960; Hafstram, Zettergran and Akesson, 1973) and the majority of patients are above the age of 50 years (Lowe, 1972). Commonly
the patients present with pain in the right hypo-
chondrium, usually of long duration and suggestive of benign biliary tract disease. A mass is often palpable on abdominal examination, and jaundice, usually due to involvement of the extra-hepatic bile ducts, is seen in about 40% of cases (Donaldson and Busuttil, 1975).

Less frequently the disease may present with evidence of peritoneal carcinomatosis and ascites (Adson, 1973) and occasionally it is an incidental finding either at laparotomy or post-mortem (Moosa et al., 1975). It is unusual for carcinoma of the gall bladder to cause gastro-intestinal obstruction. Cases of small bowel and colonic obstruction have been described (Donaldson and Busuttil, 1975; Prakash, Sharma and Pandit, 1975); however, the pyloro-
duodenal area is more commonly affected, although the incidence in most series is low (Hardy and Volk, 1971; Keil and De Weese, 1973; Prakash et al., 1975). This is well illustrated in a review of nearly 4000 cases of the disease by Vaittinen (1970), in which the incidence of duodenal obstruction was only 3.8%. No case has yet been reported in the literature in which the tumour presented as a duodenal intussusception. Indeed the latter is so rare, that when radiological appearances suggest its occurrence, duodenal invagination by an extrinsic lesion should be suspected. In these circumstances, endoscopy is mandatory and the condition is then easily eluci-
dated, as it was in this patient.

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References


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