A 53-year-old woman presented with a history of abdominal pain, nausea, vomiting, and a 40-kg weight loss, without change in bowel pattern. Physical examination revealed epigastric tenderness, good bowel sounds, and an abdominal fluid wave. Rectal examination was normal without occult blood. Abdominal computed tomography (CT) scan revealed a hypodense area of enlargement in the head of the pancreas, ascites, and multiple metastatic lesions in the liver, and normal bowels. Endoscopic ultrasound (EUS) was performed to evaluate the pancreas. In the head of the gland there was a lobular and irregular hypoechogenic structure measuring 25 mm (Figure 1). The lesion also had what appeared to be pseudopods extending into the pancreatic head. EUS-guided fine-needle aspiration was performed. Cytologic evaluation demonstrated adenocarcinoma. The tissue stained positive for CK20 and negative for CK7 and showed uniform immunoreactivity with CDX2. These results strongly suggested a primary colorectal cancer and not a primary pancreatic adenocarcinoma.

Colonoscopy revealed a large, partially obstructing mass in the ascending colon, just above the ileocecal fold (Figure 2). The patient was offered a palliative partial colectomy or placement of a colonic stent. The patient did not wish to pursue surgery, and a 22 x 90-mm colonic self-expanding metal stent (Boston Scientific, Natick, Massachusetts, USA) was placed across the stricture, with the proximal end of the stent in the cecum. Her bowel remained patent until her death 2 months later.

Reports of colon cancer metastasizing to the pancreas are very uncommon [1]. Immunohistochemically, the CK7/CK20+ phenotype seen here predicts colorectal origin with considerable accuracy and independently of other clinical information [2]. CDX2 stains homogeneously in tissue arising from the colon (as was seen here) or duodenum and heterogeneously in pancreatic adenocarcinoma [3]. This is only the third report of EUS detection of colorectal cancer metastasis to the pancreas [4,5].

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Figure 1 Mass in the head of the pancreas, seen at endoscopic ultrasound (7.5-MHz curvilinear). The lesion is hypodense and of mixed echotexture, and appears to have pseudopods extending into the pancreatic head.

Figure 2 Endoscopic appearance of colonic malignancy seen in the right colon, immediately distal to the ileocecal fold.

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Corresponding author

D. G. Adler, M.D.
Division of Gastroenterology and Hepatology
University of Texas-Houston
Health Science Center, MSB 4.234, 6431 Fannin, Houston, Texas 77030, USA
Fax: +1-713-500-6699
E-mail: douglas.adler@uth.tmc.edu

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