BRIEF COMMUNICATION

Synchronous epithelioid stromal tumour and lipoma in the stomach

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An 82-year-old man presented with upper gastrointestinal bleeding. A polypoid lesion of the distal stomach with focal ulceration was seen at endoscopy. This was treated by a partial gastrectomy. The resected stomach contained two separate tumours near the pylorus: a gastrointestinal stromal tumour (GIST) and an adjacent lipoma.

The literature includes case reports of synchronously occurring GIST and adenocarcinoma, GIST and mucosa-associated lymphoid tissue lymphoma and GIST and carcinoid tumour. Herein is the first case report of two distinct mesenchymal tumors coexisting in the stomach.

Key Words: Epithelioid tumour; Gastrointestinal stromal tumour; Lipoma

Gastrointestinal stromal tumours (GISTs) are a heterogeneous group of mesenchymal tumours; their clinical and histological features vary depending on their location within the gastrointestinal tract. They occur predominantly in older patients and are equally distributed between men and women. Seventy per cent of the tumours occur in the stomach, 20% to 30% in the small intestine and less than 10% in the esophagus, colon and rectum (1). Lipomas are rarely found in the stomach and measured 6 cm in diameter. The patient was treated by distal gastrectomy.

On admission, endoscopy revealed a large polypoid antral lesion with apical ulceration. The lesion was further evaluated by computed tomographic scan that revealed a prepyloric mass arising from the posterior wall, which measured 6 cm in diameter. The patient was treated by distal gastrectomy.

PATHOLOGICAL FINDINGS

The specimen received was a distal gastrectomy with attached portion of greater omentum. Two submucosal nodules were present in the antrum. The first nodule was well-circumscribed and measured 6.5 x 4.0 x 3.0 cm. There was a small apical ulcer at the apex. On section, the consistency was rubbery and the cut surface was tan-coloured. The second nodule was also well-circumscribed and measured 2.5 x 1.5 x 1.5 cm. It was of soft consistency and its cut surface was yellow (Figure 1).

Histological examination of the larger nodule showed a mixture of spindle and vacuolated epithelioid cells with no mitotic activity, cellular atypia or necrosis. The nuclei were round with small nucleoli (Figures 2,3). Immunohistochemical stains using antisera against vimentin (1:200 DAKO, Denmark), CD34 (1:150 Immunotech, France), Desmin (1:50, DAKO), SMA (1:100, DAKO), S100 (1:400 DAKO) and CD117 (c kit) (1:100, DAKO) were carried out at the indicated dilution. Specific immunostaining was detected using the avidin biotin peroxidase complex method. These cells were positive for vimentin, CD34 and CD117 (c kit) and negative for S100, Desmin and SMA. The second nodule showed features of classic submucosal lipoma (Figure 4).

CASE PRESENTATION

An 82-year-old man presented with a three-day history of abdominal pain and melena following alcohol ingestion. Previous history included an episode of upper gastrointestinal bleeding with melena in 1988. Endoscopy at that time demonstrated a small polypoid lesion with an apical ulcer. A biopsy of the lesion showed hyperplastic mucosa with ulceration, but no malignancy. The patient was observed for few days and repeat endoscopy showed that the ulcer had healed.

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DISCUSSION

GISTs are mesenchymal heterogeneous neoplasms that arise throughout the gastrointestinal tract. The presenting symptoms depend on tumour size and site. The most common symptom in patients with gastric GISTs is upper gastrointestinal bleeding. There is recent evidence that the cells in these tumours have many features of interstitial cells of Cajal (5). Predicting the clinical behaviour of these tumours is notoriously difficult. However, a recent study (6) has demonstrated that benign gastric GISTs could be diagnosed by a constellation of histological features other than counting mitosis or measuring tumour size. In addition, there are individual morphological features that are associated with an aggressive clinical course, including tumour size greater than 7 cm, mucosal invasion, cellularity in epithelioid type, high nuclear grade, mitotic count higher than five mitoses per 50 high power field and myxoid changes (6).

Lipomas of the gastrointestinal tract are benign, single and slow growing lesions. They occur most commonly in the colon and small bowel, and very rarely in the stomach. Most are detected incidentally, but they can cause obstruction or bleeding (7).

The synchronous occurrence of epithelial and stromal tumours in the stomach has been reported rarely in the literature. To our knowledge this represents the first case report of two synchronous mesenchymal tumours of the stomach. Coincidence alone could account for such an association.

REFERENCES
