PICTURES IN DIGESTIVE PATHOLOGY

Gastric inflammatory fibroid polyp mimicking a gastrointestinal stromal tumor

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BACKGROUND

Inflammatory fibroid polyp (IFP) of the gastrointestinal tract is a rare, benign neoplasm, most frequently located in the gastric antrum. Symptoms depend on the location and size of the lesion. Biopsies are limited for the diagnosis of inflammatory fibroid polyps and diagnosis may not be possible until resection.

The authors present a case of a 55-year-old woman, presenting with an upper gastrointestinal bleeding due to a large gastric inflammatory fibroid polyp imitating a gastrointestinal stromal tumor (GIST).

CASE REPORT

A 55-year-old woman was admitted to the emergency department due to abdominal pain, fever and hematemesis. The laboratory data revealed anemia (hemoglobin 11 g/dL), and the abdominal ultrasonography showed a hypoechoic mass located in gastric antrum.

Upper endoscopy was performed revealing a 40 mm submucosal lesion with ulceration, located in the posterior wall of the gastric antrum, suggestive of a gastrointestinal stromal tumor (Figs. 1 A and B). Abdominal computed tomography confirmed a gastric polypoid lesion, with endoluminal projection and without extramural extension.

The patient had another episode of upper gastrointestinal bleeding and a laparoscopic atypical gastrectomy was performed. Histopathologic evaluation revealed a well-defined submucosal nodular lesion, with focal mucosa ulceration, formed by proliferation of spindle cells and inflammatory infiltrate of lymphocytes and eosinophils, consistent with inflammatory fibroid polyp (IFP) (Fig. 2). Immunohistochemistry showed CD34 positivity; desmin, CD117, s100, DOG1 and C-Kit were negative.

The patient was discharged, one week later, asymptomatic.

DISCUSSION

IFPs are rare benign mesenchymal tumors that can arise in the gastrointestinal tract, more commonly occurring in the gastric antrum and normally smaller than 25 mm (1-3). They are submucosal lesions with perivascular onion skinning and prominent eosinophilic infiltrate (2). These cells are negatively stained for s100 protein and desmin, and positively for CD34 (4).

They often appear as an incidental finding on examination of the upper digestive tract, but may be associated with...
with abdominal pain, weight loss, dyspeptic symptoms, iron deficiency anemia and intestinal obstruction, but rarely massive digestive tract hemorrhage (5). Biopsies are unhelpful for the diagnosis of IFPs and diagnosis may not be possible until resection (1). In the case of large tumors, surgical treatment is often necessary and IFPs usually do not recur or metastasize. In this case, due to the increased risk of complications associated with endoscopic removal of large lesions and the recurrence of hematemesis, a surgical approach was performed.

Gastric IFPs are rare lesions, in this case with a very atypical presentation and larger size, mimicking a GIST.

REFERENCES