INTRODUCTION

Gastrointestinal mesenchymal tumors are infrequent, amounting to 1-3% of intestinal tumors. The gastrointestinal stromal tumor (GIST) arises from Cajal cells and the majority of them possess special characteristics (1).

These tumors are most commonly sighted in the stomach. The second most frequent location is the small intestine. Only between 3 to 5% of these specific tumors are found in the duodenum.

CASE REPORTS

Case 1

A 74-year-old hypertensive patient with ischemic cardiomyopathy was consulted in the emergency room for experiencing several days of melena like symptoms. Endoscopy was performed, showing a submucosal tumor around the papillary area. The use of the duodenoscope offered the best view of the tumor, revealing ulceration at its surface (Fig. 1). Ecoendoscopy was able to be done, showing a submucosal lesion in the second portion of the duodenum (Fig. 2). Areas of necrosis were visible around the interior, solely affecting the muscle layer and leaving the serosa intact. Urgent surgery was performed, extracting the duodenal tumor. The pathological anatomy reported a GIST with a low risk of positive malignance for C-KIT.

Case 2

A 62-year-old patient with dyslipidemia was admitted with symptoms of melena and hematochezia, while experiencing syncope. Endoscopy was performed, detecting a fistulous orifice in the distal duodenum. An abundant amount of blood was found flowing from (Fig. 3) the detected area. Faced with the hemodynamic instability of the patient, surgical interven-
tion was urgently needed. A 5 cm tumor with extraparietal growth, blocking the duodenal space, was detected and removed. The histological diagnosis resulted in a GIST.

DISCUSSION

GISTS usually form between the muscle layer and the mucosa, growing into the intestinal space, the serosa, or possibly in both directions (2). They are most frequent in males, with an average age of 58 years old (3). GISTS can present themselves as digestive hemorrhaging, abdominal pain, palpable masses, invagination or asthenia (4). Although, it is important to note that smaller tumors can be asymptomatic and found causally during routine endoscopies. The duodenal tumors of the second and third portion can be difficult to distinguish if their origin is pancreatic.

Endoscopically, there is no typical image of this type of lesion. They look like extrinsic submucosal/compressed tumors. Normally, their biopsy results are negative.

The value of the USE-PAAF is usually limited. However, we can use this procedure to accurately determine the tumor’s size, origin and relationship with neighboring structures. These details are fundamental for the surgeon to adequately propose the correct treatment (as seen in case 1). Furthermore, it serves as the election methodology used to differentiate between the submucosal tumors and extrinsic compressions in the digestive tube (5).

The treatment will depend on the tumor’s location, size and presence of metastasis.

REFERENCES


Fig. 3. Huge fistulous orifice due to extraluminal growth of the GIST.