





www.elsevier.pt/ge

IMAGES IN GASTROENTEROLOGY AND HEPATOLOGY

Duodenal Subepithelial Lesion? An Unexpected Endoscopic Ultrasound Finding



Lesão Subepitelial Duodenal? Um Achado Inesperado na Ecoendoscopia

Susana Marques^{a,*}, Pedro Pinto-Marques^b, David Serra^b

Received 16 June 2015; accepted 6 July 2015 Available online 28 September 2015

KEYWORDS

Duodenal Neoplasms; Endosonography

PALAVRAS-CHAVE

Neoplasias Duodenais; Ecoendoscopia

A 39-year-old female with no significant past medical history presented with intense epigastric, colic pain for the three previous days. Laboratory studies showed mild and isolated C-reactive protein (CRP) elevation (1.9 mg/dL); liver function tests and pancreatic enzymes were within normal range. An abdominal computed tomography (CT) was performed and revealed a duodenal (D2/D3)

endophytic polypoid, high density, heterogeneous lesion,

In this patient, EUS findings raised the diagnostic suspicion of a gallstone impacted in the duodenal wall through a peripapillary bilioenteric fistula. Therefore, duodenoscopy was repeated at day 6 but, instead of the lesion previously seen, there was now a large peripappilary orifice, suggestive of a bilioenteric fistula (40 mm large after contrast injection and guide-wire exploration) (Fig. 4). There was spontaneous and complete abdominal pain remission in less than a week after admission.

The case presented was particularly challenging as the endoscopic and imagiologic appearance mimicked that of a calcified subepithelial lesion with ulcerated top, such as

E-mail address: xsusanamarx@gmail.com (S. Marques).

^a Gastroenterology Department, Centro Hospitalar Lisboa Ocidental, Lisbon, Portugal

^b Gastroenterology Department, Hospital da Luz, Lisbon, Portugal

with 26 mm; biliary tree and pancreas were normal (Fig. 1). Upper endoscopy (Fig. 2A) and duodenoscopy (Fig. 2B) identified a 25 mm large subepithelial lesion, distal to the duodenal papilla (black circle in Fig. 2A), with ulcerated top, suggestive of gastrointestinal stromal tumor (GIST). Endoscopic ultrasound (EUS) examination confirmed a peripapillary subepithelial lesion with 22 mm and massively calcified, with posterior acoustic shadowing (transition zone undefined) (Fig. 3); the common bile duct was normal.

^{*} Corresponding author.

278 S. Marques et al.

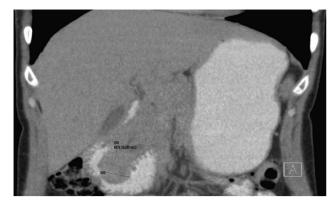


Figure 1 Abdominal CT, coronal view: duodenal (D2/D3) endophytic polypoid, high density, heterogeneous lesion, with 26 mm.

GIST. Most common subepithelial lesions found in the duodenum are GIST, leyomiomas, lipomas and carcinoids and EUS plays a major role in the differential diagnosis. These lesions may occasionally show calcification, usually focal or punctate. However, massive calcification is extremely rare (it has been described in few cases of GIST) and may point to an alternative diagnosis such as an impacted gall-stone into the duodenal wall, particularly if found in D2. There are only three published case reports of parapapillary fistula with impaction of a gallstone into the duodenal wall. 2,3

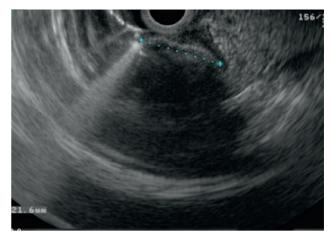


Figure 3 EUS, D2 position: peripapillary subepithelial lesion with 22 mm and massively calcified, with posterior acoustic shadowing.



Figure 4 Duodenoscopy, fluoroscopic image: large peripappilary orifice, suggestive of a bilioenteric fistula (guide-wire exploration).

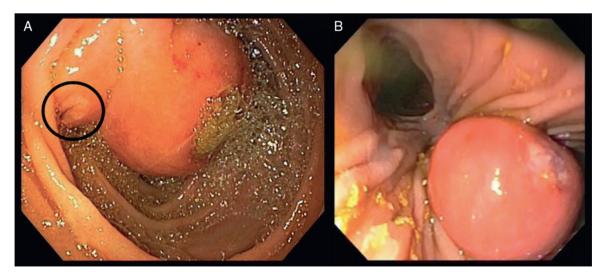


Figure 2 (A) Upper endoscopy; (B) duodenoscopy: 25 mm large subepithelial lesion, distal to the duodenal papilla (black circle in A), with ulcerated top.

Conflicts of interest

The authors have no conflicts of interest to declare.

Disclosures

All authors have approved the manuscript and agree with its submission to *GE – Portuguese Journal of Gastroenterology*. All authors have nothing to disclose.

Author contributions

Susana Marques did the writing of the manuscript. Pedro Pinto-Marques and David Serra were responsible for the revision of its contents.

References

- 1. Izawa N, Sawada T, Abiko R, Kumon D, Hirakawa M, Kobayashi, et al. Gastrointestinal stromal tumor presenting with prominent calcification. World J Gastroenterol. 2012;18:5645–8.
- 2. Okabe Y, Kaji R, Ishida Y, Noda T, Sasaki Y, Tsuruta O, et al. Successful endoscopic extraction of a large impacted choledocholithiasis in the ampulla of vater: two interesting cases. Dig Endosc. 2010;22:103–6.
- Papanikolaou IS, Polymeros D, Kontopoulou C, Chatzilia D, Triantafyllou K. Impaction of a gallstone into the duodenal wall. Endoscopy. 2010;42:297–8.