



IMAGES IN GASTROENTEROLOGY AND HEPATOLOGY

Endoscopic View of Embolization Coil in a Duodenal Ulcer



Achado Endoscópico de *Coil* de Embolização em Úlcera Duodenal

Rita Vale Rodrigues^{a,*}, Joana Saiote^b, Tiago Bilhim^c

^a Gastroenterology Department, Instituto Português de Oncologia de Lisboa Francisco Gentil, Lisbon, Portugal

^b Gastroenterology Department, Centro Hospitalar Lisboa Central, Lisbon, Portugal

^c Radiology Department, Centro Hospitalar Lisboa Central, Lisbon, Portugal

Received 5 October 2015; accepted 9 November 2015

Available online 18 December 2015

KEYWORDS

Duodenal Ulcer;
Embolization, Therapeutic;
Foreign Bodies

PALAVRAS-CHAVE

Úlcera Duodenal;
Embolização Terapêutica;
Corpos Estranhos

A 81-year-old woman with previous history of ulcerative colitis under corticotherapy was admitted to the emergency room with a two-day history of melena with orthostatic hypotension and severe anemia (hemoglobin level of 5.2 g/dL). Emergency upper endoscopy was performed and a large deep ulcer with a pulsatile visible vessel was seen along the posterior aspect of the duodenal bulb (Fig. 1). Hemostatic therapy with injection of 6 mL of epinephrine (100 µg/mL) was carried out. Due to its large

size, posterior location, and associated risk of recurrent bleeding in this high-risk patient, no further endoscopic therapeutic maneuvers were performed. The patient underwent mesenteric angiography with selective embolization of the superior pancreaticoduodenal artery. The anterior branch had a pseudoaneurism that was selectively

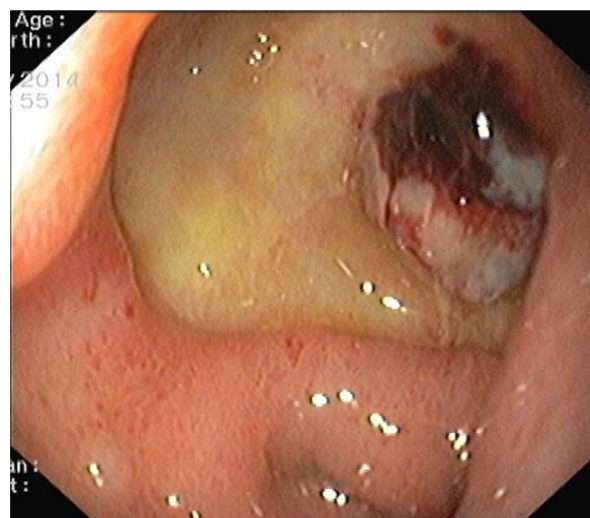


Figure 1 Endoscopic view of a large deep ulcer with a pulsatile visible vessel along the posterior aspect of the duodenal bulb.

* Corresponding author.

E-mail address: rita.vale.rodrigues@gmail.com
(R. Vale Rodrigues).

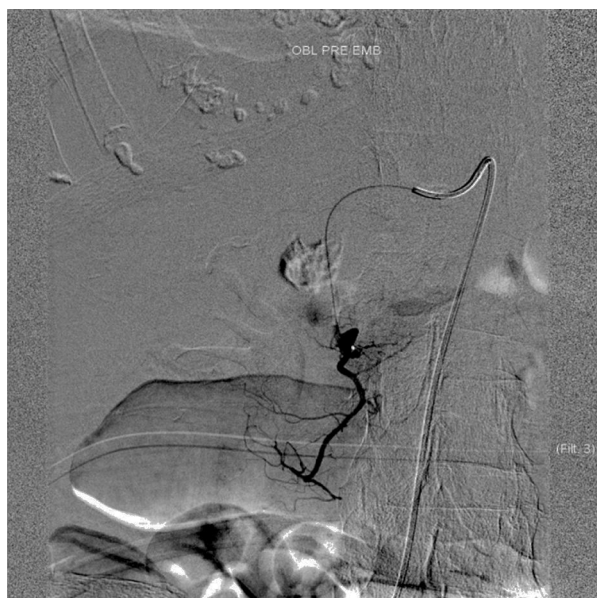


Figure 2 Selective angiography of the gastroduodenal artery before coil embolization.



Figure 3 Selective angiography of celiac branch showing coils in the gastroduodenal artery resulting in hemostasis.

embolized with 3–5 mm platinum coils (Figs. 2 and 3). The patient underwent endoscopy 72 h later which showed a coil protruding into the lumen from the visible vessel at the ulcer site (Fig. 4). There was no active bleeding or oozing. No bleeding event was detected within 30 days after the performed treatment.

The embolization of the gastroduodenal artery is a safe and effective technique in bleeding duodenal ulcer in patients with high surgical risk. The endoscopic view of arterial embolization coils is a rare but known complication.^{1–5}



Figure 4 Endoscopic view of the ulcer with a coil located in the center of the previously bleeding vessel.

Due to the small number of described cases, the prognostic value of this finding with regard to rebleeding incidence remains unclear.

Ethical disclosures

Protection of human and animal subjects. The authors declare that no experiments were performed on humans or animals for this study.

Confidentiality of data. The authors declare that no patient data appear in this article.

Right to privacy and informed consent. The authors declare that no patient data appear in this article.

Conflicts of interest

The authors have no conflicts of interest to declare.

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