Endoscopic submucosal dissection of a large malignant gastric hyperplastic polyp, developing on gastric amyloidosis, after endoscopic and echoendoscopic characterization

Gastric hyperplastic polyps are commonly found on upper endoscopy and are usually benign. However, rare cases of malignant transformation of hyperplastic polyps have been reported [1]. Localized gastric amyloidosis is a rare entity. Although the endoscopic appearance can sometimes mimic gastric cancer [2], the association of gastric amyloidosis and adenocarcinoma is uncommon.

We report the case of a 79-year-old woman with a history of gastric amyloidosis who was referred to our center for endoscopic evaluation and treatment of a large villous gastric lesion (Fig. 1a–c).

Endoscopic ultrasound revealed a tumor that had spread mainly to the mucosal layer, with a small area corresponding to a macronodule that was in close contact, but not invading, the muscular layer. We performed an endoscopic submucosal dissection (ESD) and, although the procedure was particularly difficult because of important areas of submucosal fibrosis, we removed the lesion en bloc in a specimen measuring 170 x 140 mm (Fig. 2a, Video 1). Some isolated points of contact with the superficial muscle layer were closed using hemostatic clips (Fig. 1d).

The histopathology analysis confirmed an atypical hyperplastic polyp with areas of low and high grade dysplasia and intramucosal adenocarcinoma, as well as gastric amyloidosis in the submucosa (Fig. 2b–d). No Helicobacter pylori was detected, and after multidisciplinary discussion endoscopic surveillance was decided [3].

One case of gastric adenocarcinoma co-existing with gastric amyloidosis has previously been reported [4], but to the best of our knowledge this is the first case of endoscopic diagnosis and ESD of a malignant hyperplastic polyp developing on gastric amyloidosis. The procedure was particularly difficult due to important submucosal fibrosis, but the resection was confirmed as R0 after histopathology analysis, with no further complication. In conclusion, for large gastric hyperplastic polyps, ESD is possible even in the presence of gastric amyloidosis with important submucosal fibrosis.

Competing interests

None

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Fig. 2 After endoscopic submucosal dissection. a Resection piece. b, c, d Histopathology of the gastric lesion, showing atypical cells and mitosis (b), hyperplastic polyp and amyloidosis (c; hematoxylin and eosin stain), and gastric amyloidosis (d; Congo red stain).

Video 1 Endoscopic submucosal dissection of a large malignant gastric hyperplastic polyp.