Gangliocytic paraganglioma of the duodenal papilla associated with esophagogastric adenocarcinoma

A 3-cm painless epigastric mass was found on examination in a 53-year-old man with abdominal pain and vomiting for the past 6 months. An abdominal computed tomography (CT) scan showed asymmetric thickening of the distal esophagus, and upper endoscopy showed a neoplastic lesion in the distal esophagus (histological examination of the biopsy revealed adenocarcinoma). In the duodenum, we found a subepithelial lesion in the papilla, measuring about 2 cm, which was covered by normal mucosa, and bile drainage was also normal. Endoscopic biopsies did not reveal neoplastic cells (Fig. 1).

Endoscopic ultrasound showed a hypoechoic heterogeneous lesion in the cardia, infiltrating the serosa, accompanied by perilesional hypoechoic, round, well-defined nodes smaller than 1 cm in size. In the duodenal papilla, we found a hypoechoic homogeneous lesion restricted to the deep mucosa, measuring 25×15 mm, with no invasion of the biliary and pancreatic ducts (Fig. 2).

The patient was referred for surgical resection of the esophageal tumor, duodenotomy and papillary tumor excision, and biliary drainage. Pathological specimens showed T3N2 esophagogastric adenocarcinoma and gangliocytic paraganglioma of the duodenal papilla (Fig. 3), with neoplastic cells positive for chromogranin (Fig. 4a), synaptophysin (Fig. 4b), and S100 protein, and with a low mitotic index and Ki67 < 1.

Gangliocytic paragangliomas are rare tumors, mainly arising in the duodenal papilla. Only a few cases have been reported in the literature, and we did not find any reports of the tumor in association with other upper gastrointestinal malignancies [1, 2]. Endoscopic ultrasound can aid in evaluation of the invasiveness of the lesion and in some cases, in obtaining histological specimens for immunohistochemical analyses to confirm the diagnosis [3, 4]. Despite its benign behavior, most patients reported in the literature were treated with surgical resection [1–5]. In the present case, we elected to carry out local surgical excision in the form of a duodenotomy during the esophagogastrectomy procedure.

Competing interests: None
Fig. 4  Histological sections showing positive staining for a chromogranin and b synaptophysin.

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DOI http://dx.doi.org/ 10.1055/s-0031-1291759
Endoscopy 2012; 44: E165–E166
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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