Endoscopic ultrasound-guided fine-needle aspiration diagnosis of mixed endocrine somatostatinoma of the minor papilla in von Recklinghausen disease

Von Recklinghausen disease (VRD) is an autosomal-dominant disorder with variable penetrance. VRD is associated with a variety of benign and malignant neoplastic lesions [1]. The association with duodenal neuroendocrine tumors, particularly somatostatinomas, is widely recognized [1–3]. Mixed endocrine tumors are a particular category of neuroendocrine tumors and include at least two distinct tumor populations, one of which is endocrine [3, 4]. We describe a case of mixed neuroendocrine tumor with somatostatin expression arising from the minor papilla in a patient with VRD, diagnosed by endoscopic ultrasound-guided fine-needle aspiration (EUS-FNA).

A 61-year-old woman with VRD was referred to our institute for endoscopic resection of an adenomatous polyp of the major papilla. Duodenoscopy revealed a 2.5-cm polyp in the area of the minor papilla (Fig. 1a, b). EUS showed that the lesion arose from the submucosa of the minor papilla and obstructed the dorsal pancreatic duct (Fig. 2a). Computed tomography showed two hypervascular lesions, 25 and 4 mm in size, in the second part of the duodenum (Fig. 4a), with the largest one obstructing the dorsal pancreatic duct in the context of pancreas divisum. The results of an octreotide scan were negative. Surgery was recommended, but the patient refused.

The diagnosis was difficult because of the presence of a mixed endocrine tumor composed of epithelial adenoma and somatostatinoma. A precise diagnosis is important because adenomas with mild dysplasia are an indication for endoscopic resection, but somatostatinomas associated with VRD are an indication for surgery, especially when the diameter of a tumor is larger than 2 cm, because of the high degree of malignant potential with regional lymph node involvement [4–6]. In this case, both morphologic EUS and FNA were essential for a correct diagnosis and management, and they should be considered for all patients with VRD and duodenal lesions.

Competing interests: None

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Stuttgart · New York
ISSN 0013-726X

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