Endoscopic Snapshot



GE Port J Gastroenterol 2018;25:195–197 DOI: 10.1159/000481457 Received: July 17, 2017 Accepted after revision: August 15, 2017 Published online: October 26, 2017

Adenosquamous Carcinoma of the Ampulla of Vater: A Rare Cause of Obstructive Jaundice

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Keywords

Jaundice · Endoscopic ultrasonography · Ampullary tumor · Adenosquamous carcinoma

Carcinoma Adenoescamoso da Ampola de Vater: Uma Causa Rara de Icterícia Obstrutiva

Palavras Chave

Icterícia · Ultrassonografia endoscópica · Ampuloma · Adenocarcinoma escamoso

A 68-year-old Caucasian male was admitted with painless jaundice, choluria, and acholia for the previous 10 days. On admission, the patient was markedly affected by jaundice, with no relevant findings in the abdominal examination. Laboratory tests showed conjugated hyperbilirubinemia (total 15.4 mg/dL; conjugated 10.7 mg/dL), elevated transaminase levels (ALT 271 U/L; AST 102 U/L), and cholestasis parameters (GGT 1,049 U/L; AP 279 U/L). Abdominal ultrasonography revealed dilation of the common bile duct and intrahepatic biliary ducts.

Tumour markers CA19.9 and CEA were normal. Endoscopic ultrasound was performed using a linear scope and showed a subepithelial mass of the papilla (Fig. 1), corresponding to a hypoechogenic lesion of 22 mm, with submucosal growth, involving the muscularis propria of the duodenum (T2) (Fig. 2). This lesion caused marked dilation of the proximal common bile duct and intrahepatic ducts. A perilesional adenopathy was identified (N1). Endoscopic ultrasound-guided fine needle aspiration (EUS-FNA) was performed using a 25-gauge needle and cytologic evaluation was consistent with adenocarcinoma. Computed tomography ruled out distant metastasis and the patient was referred for surgery (cephalic duodenopancreatectomy). Histological analysis of the surgical specimen documented an adenosquamous carcinoma of the ampulla of Vater (ASC AV; Fig. 3), involving the duodenal muscularis propria, with one regional lymph node metastasis (R0, pT2N1). Postoperative outcome was uneventful and the patient remains asymptomatic after a 10-month follow-up period.

Adenocarcinomas account for most primary malignant tumors of the ampulla of Vater, while other histological types such as squamous or adenosquamous carcinomas are exceedingly rare [1]. Duodenoscopy in combi-

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Fig. 1. Subepithelial mass of the papilla.

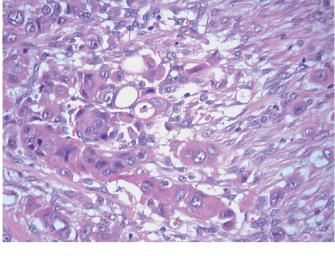


Fig. 3. Poorly differentiated carcinoma showing pleomorphic cells with dense eosinophilic cytoplasm suggestive of squamous differentiation.



Fig. 2. Hypoechogenic lesion of 22 mm, with submucosal growth, involving the muscularis propria of the duodenum (T2).

nation with EUS-FNA are first-line diagnostic procedures in the workup of papillary tumors. Surgery is the treatment of choice in the presence of invasive carcinoma (T>T1a; N1) [2].

ASC AV is an extremely rare condition, with scarce case reports in the literature. It is defined as a tumor in which both glandular and squamous components are malignant, being clinically more aggressive, with worse prognosis than conventional adenocarcinoma [3]. The

origin of squamous carcinoma in the ampulla of Vater remains unclear. Squamous metaplasia of the pancreatic ductal epithelium after chronic inflammation has been hypothesized as one of the possible oncogenic mechanisms [4].

The clinicopathological features and biologic behavior of ASC AV are largely unknown because of the rarity of this condition. Outcomes of this entity remain unclear and no therapeutic strategies have been established.

In a review of 7 cases of ASC AV, the mean age at diagnosis was 62 years and 71% were men. In 4 cases, the squamous components were identified in preoperative endoscopic biopsy results, whereas the diagnosis of adenosquamous carcinoma was made after surgical resection in 3 cases. Overall survival in all 7 cases ranged from 6 to 20 months [5].

Disclosure Statement

The authors have no conflicts of interest to declare.

Statement of Ethics

This report has been performed in accordance to the principles of the Helsinki Declaration, in order to protect patient confidentiality.

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