Squamous Cell Carcinoma of the Pancreas

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Abstract
Exocrine pancreatic tumors are dominated by adenocarcinomas that have a poor prognosis. Squamous Cell Carcinoma of the pancreas is rare. We report a case of squamous cell carcinoma of the pancreas in a 75-year-old patient admitted to the emergency ward with acute cholangitis.

Keywords
Carcinoma, Squamous Cell, Pancreas

1. Introduction
Exocrine pancreatic tumors are dominated in terms of frequency by adenocarcinomas that are malignant tumors whose prognosis is more severe. However, rare forms of malignant tumors of the pancreas exist including squamous cell carcinoma of the pancreas. Thus, we report the case of a 75-year-old patient with no notable history, presented with cholangitis. Subsequent imaging showed a tumor in the head of the pancreas for which histological examination confirmed squamous cell carcinoma of the pancreas.

2. Case Report
A 75-year-old patient non smoker with one month history of right upper quadrant pain with obstructive jaundice, fever and deterioration of general status.

On physical examination, patient was visibly ill with jaundice, 39°C fever and right upper quadrant tenderness. Laboratory tests showed cholestasis, leukocytosis and elevated CRP with normal kidney function.

Abdominal ultrasound revealed bile ducts dilation with common bile duct 15 mm, upstream of a hyper echo-

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genic heterogeneous lesion of the pancreatic head taking the Doppler and measuring 8.7 × 8.4 cm.

A CT scan showed intra hepatic bile duct dilation with common bile duct dilation at 17 mm upstream of a process of the head of pancreas with peri pancreatic nodular carcinomatosis (Figure 1).

The patient was placed under broad spectrum antibiotics followed by emergency endoscopic biliary drainage. A CT guided pancreatic puncture-biopsy was performed with the histology showing poorly differentiated invasive squamous cell carcinoma of the pancreas (Figure 2).

The case was discussed in a multidisciplinary meeting where palliative chemotherapy was decided. Patient was referred to Oncology for chemotherapy.

3. Discussion

Squamous cell carcinoma of the pancreas is very rare.

Eight cases of squamous cell carcinoma of the pancreas have been reported in the literature since 1990 [1]-[3]. In the classification of tumors outlined by WHO [4], squamous cell carcinoma falls under adenosquamous tumor. The histogenesis of pancreatic squamous cell carcinoma is unclear. Two hypotheses have been proposed to explain this: the degeneration of squamous metaplasia of the ductal epithelium and the transformation of a tumor whose adenosquamous adenocarcinoma component would have completely disappeared [1]. The canal squamous metaplasia is common. It was observed in 48% of cases of an autopsy series of 83 American veterans [5] and in 21% of cases in a series of 73 biopsies from patients with chronic pancreatitis [6].

Pancreatic carcinoma adenosquamous type is a known histological form. Its incidence ranges from 0.4% to
4.2% depending on the study [2]. It is characterized by the presence of varying proportions of two tumors contingents: squamous and glandular. For a tumor to be considered adenosquamous, the squamous component must represent more than 30% of the tumor [4].

In CT scan, there is often a peripheral contrast in the lesion after injection of contrast [7].

These tumors, often voluminous, have grim prognosis at diagnosis, with loco regional and lymph node invasion very common [8], as well as metastases, which were reported in six other cases in the literature [3] [9] [10]. Baylor et al. reported a 5-year survival rate of less than 1% [11], Beyer et al. a 1-year survival of 4.8% [2]. Median survival is 2 months [10].

The therapeutic treatment of squamous cell carcinoma is the same as that of all adenocarcinomas. However, loco regional and metastatic invasion very common, makes most tumors unresectable. Patients who undergo a curative or palliative treatment (dual or single biliodigestive bypass) surgery have a better prognosis [3]. In case of unresectable or metastatic tumor, radiation or a combination chemotherapy radiation did not prove effective [10]. Systemic chemotherapy has rarely been effective.

In our case, the particularity being highlighted here, not only being especially the histological type, but also the presence of peritoneal carcinomatosis hence our decision to perform a pancreatic function-biopsy in order to confirm the aforementioned histological nature and commence subsequent treatment.

4. Conclusion

Squamous cell carcinoma of the pancreas is a rare tumor. Apart from some specific morphological characteristics, its clinical presentation is the same as that of adenocarcinoma. Curative or palliative surgical treatment should be performed when tumor extension and patient’s general condition permit. If not, the use of chemotherapy can lead to an improvement of the general condition.

References


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