

CASE REPORT

Lymphoepithelial Cyst of the Pancreas: A Case Report

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ABSTRACT

Lymphoepithelial cysts are relatively common lesions in the lateral neck region, but a lesion with identical morphology and clinical behavior may sometimes occur in the pancreas (although rare). Lymphoepithelial cysts are characterized histologically according to ... mass in the pancreatic tail. Histopathological examination revealed the rare diagnosis of a pancreatic lymphoepithelial cyst. Pancreatic lymphoepithelial cyst is often diagnosed microscopically in a resected specimen, after a partial pancreatectomy performed on suspicion of a neoplastic cyst. The most clinically important differential diagnosis of lymphoepithelial cysts are mucinous neoplastic cysts of the pancreas: mucinous cystic neoplasia and intraductal papillary mucinous neoplasia demanding surgical treatment, whereas in case of asymptomatic lymphoepithelial cyst, the "watch and wait" approach should be preferred. Preoperative diagnosis of lymphoepithelial cyst remains a challenge. Reviewed is literature pertaining to clinical, cytological and histological examination.

INTRODUCTION

Lymphoepithelial cysts are relatively common lesions in the lateral neck region, most often derived from remnants of the second branchial apparatus [1]. Patients usually present with painless swelling. On gross examination, the cysts are unilocular and contain clear to grumous material. Sizes are variable and can reach 10cm. Cytological examination usually demonstrate neutrophils, ... review of the relevant literature along with the differential diagnosis and clinical implications.

CLINICAL COURSE

A seventy-four-year-old female patient with a clinical history of arterial hypertension, osteoporosis and smoking, was referred to the Gastroenterology Department of the 2nd ... & Faculty Hospital Kralovské Vinohrady, because of the ... cystic formation in the pancreatic tail described using computed tomography (CT). The CT was originally performed to investigate cysts ... Further endosonographic examination of the pancreas revealed a hypoechoic multi-cystic lesion on the border of the pancreatic body and tail (Figure 1), with ... The clinical diagnosis ... needle aspiration biopsy was performed establishing ... CA 19-9, CA 125, CA 72-4) were negative. The patient was recommended to go through with an additional biopsy, but she refused. As a result, she maintained regular follow-ups at the gastroenterology department and the cystic lesion was closely monitored using ultrasonography. However, over the next 10 months the size of the cyst increased for approx. 10 mm. At this point, the patient agreed to undergo a second biopsy. During the endosonographic examination, ... and sent for analysis. Biochemical analysis of the cystic

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Abbreviations ...
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Figure 1. ...

... section, multiple cysts containing viscous grumous material were observed, with dirty yellowish areas in the ... epithelium without cellular atypia and focally with admixed mucinous PAS-positive goblet cells (Figure 3). The cystic debris and foamy macrophages. Abundant lymphoid tissue with terminal centers was found within the cyst wall, in hematoxylin-eosin stain (Figures 4, 5). Older fat necrosis with cholesterol crystals, giant multinuclear macrophages and scarring were present in the surrounding adipose tissue. Single fat droplet compatible with the diagnosis of cholesterol crystals. ...

DISCUSSION

... case reports or small groups of patients, including recent references, have appeared in the literature [3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25]. In our case, we report a middle-aged patient, predominantly but not exclusively

Histopathological Examination

A gross specimen measuring 92x33x20 mm, consisting of the pancreatic tail and spleen (weight 60 g) was delivered to the Department of Pathology for dissection. An encapsulated mass measuring 40x30x23 mm was

Figure 2. CT scan after intravenous contrast media administration showing exophytic cystic lesion arising from the superior contour of the pancreatic body. pancreatic duct is not dilated.

Figure 3.

Figure 4. (•-‘f-Š‘Ž‘%o (<... f Ž •... f• •Š‘™ (<•%o •-”f-Đ (†† •“-f•-• †’ (-Š †Ž (-• f•† Ž)•’ Š f-<... %o †”•<• f Ž

Figure 5. (<•-‘f-Š‘Ž‘%o (<... f Ž •... f• •Š‘™ (<•%o ...)•-<... ... f~ (-) ... ‘-f (<•%o - (<•-† ††” (<•™ (-Š ^‘f•) •f ...” - (<•-†™ (-Š •†... ‘•†f”) Đ („”’- (<... ... Š f•%o †•ä á z ä

... foci with sebaceous differentiation [7, 8, 9]. presentation is abdominal pain. Other complaints include nausea, vomiting, anorexia, weight loss, back pain, fatigue, and weight loss. The diagnosis is usually made based on the clinical presentation and imaging. The histopathological findings are characteristic of the disease. The inner surfaces of the cysts are granular, devoid of any prominent projections [4].

... granulomas and microscopic foci of fat necrosis in the lymphoid areas or in the areas immediately adjacent to the pancreas were present [4]. The older fat necrosis with cholesterol crystals and giant cell granulomas in the peripancreatic adipose tissue. The epithelial foci of fat necrosis in the lymph nodes have not been reported in cases of pancreatic lymphoma [5], or cystic transformation of pancreatic ducts that have undergone

that have been displaced and fused with the pancreas during embryogenesis [3]. The sebaceous glands included [9], may support the hypothesis concerning teratomas.

Another important differential diagnosis can be solid pseudopapillary neoplasia, occurring predominantly in young women. Solid pseudopapillary neoplasia is regarded as well. On the other hand, like in case of asymptomatic case of serous adenoma, a fully benign pancreatic tumor representing another important differential diagnosis.

The most clinically important differential diagnosis is epidermoid cysts in intrapancreatic accessory spleens, lymphangiomas, and pseudocysts; nevertheless, after surgical excision and pathological analysis remain the gold standard in symptomatic patients and when malignancy cannot be excluded [35].

There is prevailing male sex and tail-localization in mucinous cysts. The most common clinical and imaging mimicry of this is a cystic neoplasm of pancreas, either benign or malignant.

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Some authors do not recommend needle biopsy for cystic lesions of the pancreas because of risk of the dissemination of tumor cells or the development of pseudomyxoma [32].

mentioned above, there are several papers describing characteristics include mosaic pattern depending on the degree of keratin amount in ultrasonography, enhancement of the wall and septa of the cyst without pancreatic duct dilatation. In our case, the reliability of preoperative diagnostics remains controversial. There are several references favoring imaging methods for cytological analysis of the cyst. However, surgical excision and histopathological analysis remain the gold standard in symptomatic patients and when malignancy cannot be excluded, like in our case.

CONCLUSION: Fully benign lesion, often treated by partial pancreatectomy performed on suspicion of a neoplastic mucinous cyst, like in our case. The reliability of preoperative diagnostics remains controversial. There are several references favoring imaging methods for cytological analysis of the cyst. However, surgical excision and histopathological analysis remain the gold standard in symptomatic patients and when malignancy cannot be excluded, like in our case.

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References: 1. ...

