World Journal of Clinical Cases

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Contents

Thrice Monthly Volume 11 Number 29 October 16, 2023

MINIREVIEWS

6974 Applications of time series analysis in epidemiology: Literature review and our experience during COVID-19 pandemic

Tomov L, Chervenkov L, Miteva DG, Batselova H, Velikova T

ORIGINAL ARTICLE

Retrospective Cohort Study

6984 Acute cholangitis: Does malignant biliary obstruction vs choledocholithiasis etiology change the clinical presentation and outcomes?

Tsou YK, Su YT, Lin CH, Liu NJ

Retrospective Study

6995 Usefulness of analyzing endoscopic features in identifying the colorectal serrated sessile lesions with and without dysplasia

Wang RG, Ren YT, Jiang X, Wei L, Zhang XF, Liu H, Jiang B

7004 Roles of biochemistry data, lifestyle, and inflammation in identifying abnormal renal function in old Chinese

Chen CH, Wang CK, Wang CY, Chang CF, Chu TW

7017 Clinical efficacy and safety of Guipi decoction combined with escitalopram oxalate tablets in patients with depression

Yu J, Xu FQ

7026 Artificial intelligence technology and ultrasound-guided nerve block for analgesia in total knee arthroplasty

Tong SX, Li RS, Wang D, Xie XM, Ruan Y, Huang L

7034 Axenfeld-Reiger syndrome: A search for the missing links

Morya AK, Ramesh PV, Sinha S, Nishant P, Nain N, Ramavath RN, Gone C, Prasad R

Observational Study

7043 Self-management of osteoarthritis while waiting for total knee arthroplasty during the COVID-19 pandemic among older Malaysians

Mahdzir ANK, Mat S, Seow SR, Abdul Rani R, Che Hasan MK, Mohamad Yahaya NH

7053 "In situ bone flap" combined with vascular pedicled mucous flap to reconstruction of skull base defect Qian M, Chen X, Zhang LY, Wang ZF, Zhang Y, Wang XJ

Reference values of gait parameters in healthy Chinese university students: A cross-sectional observational 7061

Yu JS, Zhuang C, Guo WX, Chen JJ, Wu XK, Xie W, Zhou X, Su H, Chen YX, Wang LK, Li WK, Tian K, Zhuang RJ



World Journal of Clinical Cases

Contents

Thrice Monthly Volume 11 Number 29 October 16, 2023

7075 Effect of T-regulatory cells and interleukin-35, interleukin-10, and transforming growth factor-beta on diffuse large B-cell lymphoma

Wu H, Sun HC, Ouyang GF

META-ANALYSIS

Meta-analysis on the effectiveness of parent education for children with disabilities 7082

Jang J, Kim G, Jeong H, Lee N, Oh S

7091 Meta-analysis of the efficacy and safety of daratumumab in the treatment of multiple myeloma

Wang P, Jin SY

CASE REPORT

7101 Varicella-zoster virus meningitis with hypoglycorrhachia: A case report

Cao LJ, Zheng YM, Li F, Hao HJ, Gao F

7107 Unusual presentation of penile giant condyloma acuminatum with spontaneous prepuce perforation: A case report

Hsu FC, Yu DS, Pu TW, Wu MJ, Meng E

7113 Primary renal lymphoma presenting as renal failure: A case report and review of literature from 1989

Lee SB, Yoon YM, Hong R

7127 Intravascular ultrasonography assisted carotid artery stenting for treatment of carotid stenosis: Two case reports

Fu PC, Wang JY, Su Y, Liao YQ, Li SL, Xu GL, Huang YJ, Hu MH, Cao LM

7136 Mucoepidermoid carcinoma of the lung with hemoptysis as initial symptom: A case report

Xie WX, Liu R, Li Z, Zhou PL, Duan LN, Fu DD

7144 Co-infection of Chlamydia psittaci and Tropheryma whipplei: A case report

Du ZM, Chen P

7150 Surgical treatment of severe anterior capsular organized hard core cataract: A case report

Wang LW, Fang SF

7156 First platelet transfusion refractoriness in a patient with acute myelocytic leukemia: A case report

Tu SK, Fan HJ, Shi ZW, Li XL, Li M, Song K

Rare finding of primary aortoduodenal fistula on single-photon emission computed 7162

tomography/computed tomography of gastrointestinal bleeding: A case report

Kuo CL, Chen CF, Su WK, Yang RH, Chang YH

7170 Rituximab combined with Bruton tyrosine kinase inhibitor to treat elderly diffuse large B-cell lymphoma

П

patients: Two case reports

Zhang CJ, Zhao ML

World Journal of Clinical Cases

Contents

Thrice Monthly Volume 11 Number 29 October 16, 2023

7179 Use of Ilizarov technique for bilateral knees flexion contracture in Juvenile-onset ankylosing spondylitis: A case report

Xia LW, Xu C, Huang JH

7187 Case of takotsubo cardiomyopathy after surgical treatment of liver hydatid cyst: A case report

Altaş Y, Abdullayeva Ü

7193 Laparoscopic choledocholithotomy and transductal T-tube insertion with indocyanine green fluorescence imaging and laparoscopic ultrasound: A case report

Yoo D

7200 Hematopoietic stem cell transplantation of aplastic anemia by relative with mutations and normal telomere length: A case report

Yan J, Jin T, Wang L

7207 Emphysematous thrombophlebitis caused by a misplaced central venous catheter: A case report

Chen N, Chen HJ, Chen T, Zhang W, Fu XY, Xing ZX

7214 Aggressive angiomyxoma of the epididymis: A case report

Liu XJ, Su JH, Fu QZ, Liu Y

7221 Gastric and intestinal ectopic pancreas: Two case reports

Zhang H, Zhao HY, Zhang FH, Liang W

7227 Congenital leukemia: A case report and review of literature

Yang CX, Yang Y, Zhang FL, Wang DH, Bian QH, Zhou M, Zhou MX, Yang XY

7234 Imaging misdiagnosis and clinical analysis of significant hepatic atrophy after bilioenteric anastomosis: A case report

Liang SY, Lu JG, Wang ZD

7242 Surgical treatment of mixed cervical spondylosis with spontaneous cerebrospinal fluid leakage: A case report

Yu Z, Zhang HFZ, Wang YJ

7248 Simultaneous thyroglossal duct cyst with parathyroid cyst: A case report

Chen GY, Li T

7253 Submandibular solid-cystic mass as the first and sole manifestation of occult thyroid papillary carcinoma: A case report

Chen GY, Li T

LETTER TO THE EDITOR

7258 Artificial intelligence and machine learning in motor recovery: A rehabilitation medicine perspective

Swarnakar R, Yadav SL

Contents

Thrice Monthly Volume 11 Number 29 October 16, 2023

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CASE REPORT

Gastric and intestinal ectopic pancreas: Two case reports

Huan Zhang, Hong-Yu Zhao, Feng-Hua Zhang, Wei Liang

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Abstract

BACKGROUND

Ectopic pancreas may be unfamiliar to many people because it is rare and difficult to diagnose. However, this disease is highly susceptible to misdiagnosis and missed diagnosis. In this article, we report two cases of pancreatic heterotopia in the gastric sinus and small intestine, respectively, both of which were confirmed by histopathological examination.

CASE SUMMARY

The first patient was a 43-year-old female which reported abdominal distension for 2 mo. The second was a 67-year-old female who experienced intermittent epigastric discomfort for 15 d. In both cases, there was no confirmed preoperative examination, and the postoperative pathology indicated the presence of ectopic pancreas.

CONCLUSION

The diagnosis of ectopic pancreas is difficult, and is often prone to misdiagnosis and the possibility of being overlooked. Various laboratory tests and imaging tests should be carefully evaluated before surgery to achieve early detection, early diagnosis and early treatment.

Key Words: Gastric; Intestinal; Ectopic pancreas; Case report

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Core Tip: Ectopic pancreas is rare, is usually clinically asymptomatic, and lacks a specific clinical presentation. Therefore, ectopic pancreas is often missed and misdiagnosed in clinical practice. This article reports the diagnosis and treatment process of two cases of ectopic pancreas in our hospital, to increase awareness regarding the occurrence of ectopic pancreas and provide guidance for making the correct diagnosis in a timely manner.

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INTRODUCTION

Ectopic pancreas is a relatively rare congenital condition in which pancreatic tissue is detected outside its normal location that has no anatomical or vascular relationship to the normal pancreas[1]. Ectopic pancreas often lacks specific clinical symptoms and signs, and because there are no specific clinical manifestations or imaging signs, the correct diagnosis can only be determined, in most cases, by histopathological examination of a resected specimen [2-3]. Ectopic pancreas can occur at any part of the gastrointestinal tract, but it is mostly detected in the upper gastrointestinal tract, especially in the stomach, duodenum and jejunum[4]. It is most commonly found in the stomach (25%-38% of cases), followed by the duodenum (17%-36%) and jejunum (15%-22%)[4]. This condition is highly susceptible to misdiagnosis in clinical practice. In the present report, case 1 with gastric ectopic pancreas was misdiagnosed as gastrointestinal mesenchymal tumor. This case highlights the importance of thorough and meticulous assessment of digestive swellings by clinicians, and attention to their differential diagnosis. The main differential diagnoses of ectopic pancreas include gastrointestinal mesenchymal tumors, gastrointestinal autonomic tumors, gastric carcinoid tumors, lymphomas, and gastric cancer [5].

CASE PRESENTATION

Chief complaints

Case 1: A 43-year-old female who reported abdominal distension for 2 mo.

Case 2: A 67-year-old female who experienced intermittent epigastric discomfort for 15 d.

History of present illness

Case 1: The patient presented to our hospital 2 mo ago with abdominal distension of unknown cause, which worsened after eating, without abdominal pain or diarrhea.

Case 2: Fifteen days ago, the patient presented with epigastric dull pain of no apparent cause, intermittent in nature, not radiating to the back, unrelated to breathing or position change, and relieved by eating. Occasional black stools, no mucopurulent stools, dizziness and weakness were observed.

History of past illness

Case 1: Five years after previous endometrial cancer surgery, regular check-ups have shown no signs of recurrence.

Case 2: This patient was previously fit, with no special medical history.

Personal and family history

The patients had no relevant personal or family history.

Physical examination

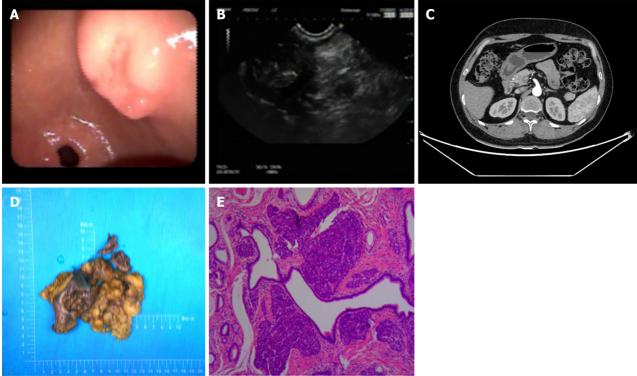
Physical examination of the patients' heart and lungs was unremarkable. Abdominal examination showed no positive signs for general conditions.

Laboratory examinations

Blood analysis, stool analysis, and serum tumor markers showed no significant abnormalities.

Imaging examinations

Case 1: Gastroscopic observation: A submucosal mass measuring approximately 3.0 cm × 2.2 cm was seen in the posterior wall of the gastric sinus, with smooth surface mucosa, central depression and rupture, and visible bridge-shaped folds (Figure 1A). Ultrasound gastroscopy observation: The lesion was located in the intrinsic muscular layer, and the internal echogenicity was heterogeneous and hypoechoic, approximately 3.0 cm × 2.4 cm in size, showing intra- and extracavernous growth with clear borders (Figure 1B). Microscopic diagnosis: A submucosal mass was detected in the gastric sinus, suggesting mesenchymal tumor. Computed tomography (CT) enhancement of the abdomen: The pancreas exhibited normal morphology and positioning, with a distinct contour. There were no signs of abnormal enhancement in the pancreatic tissue, and the pancreatic duct showed no dilation. Additionally, the peripancreatic fat gap was clearly visible (Figure 1C).



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Figure 1 Imaging and pathological examination of the ectopic pancreas. A: Electronic gastroscopy; B: Ultrasound gastroscopy; C: Enhanced computed tomography; D: Surgical excision of the specimen; E: Pathological examination results (HE staining, × 100).

Case 2: Gastroscopy and pathology suggested: Gastric sinus cancer (type IIb).

MULTIDISCIPLINARY EXPERT CONSULTATION

During surgery: The mass was located on the lateral side of the greater curvature of the gastric sinus, with no invasion into the plasma layer, a diameter of approximately 3 cm, slightly tough, movable, and poorly defined. A laparoscopic wedge resection of the stomach was performed (Figure 1D). Postoperative pathological findings: (Distal stomach) dilated ducts and pancreatic vesicles were seen in the myxomucosa, submucosa, and superficial muscular layer, which was consistent with pancreatic ectopia (Figure 1E).

FINAL DIAGNOSIS

Case 1: The patient was diagnosed with (gastric sinus region) ectopic pancreas in the stomach.

Case 2: (1) Distal stomach: Gastric cancer; and (2) small intestinal mass (ectopic pancreas).

TREATMENT

Case 1: Postoperatively, the patient recovered well.

Case 2: Postoperatively, the patient recovered well. Adjuvant XELOX chemotherapy regimen (oxaliplatin 240 mg as continuous intravenous infusion over 24 h on 1 d combined with capecitabine 1.5 g on 1-14 d) was administered as one cycle per 3 wk after surgery.

OUTCOME AND FOLLOW-UP

Case 1: The patient was discharged 8 d after surgery and has been followed up since.



Case 2: She was discharged from the hospital 11 d after surgery. As of the latest follow-up, her overall condition is satisfactory.

DISCUSSION

Currently, the pathogenesis of ectopic pancreas is unclear, and three main theories have been proposed to explain its occurrence, namely the mislocation theory, the chemotaxis theory, and the totipotent cell theory. The widely accepted mislocation theory suggests that during embryonic rotation, dorsal and ventral deposits of pancreatic tissue migrate and detach from the main body of the pancreas to different ectopic sites [6-8]. The chemotaxis theory suggests that during embryonic development, endodermal tissue migrates to the submucosa and then transforms into pancreatic tissue. The totipotent cell theory postulates that endodermal cells in the intestine differentiate into pancreatic tissue. Most patients with ectopic pancreas are asymptomatic [9], and preoperative diagnosis is often difficult, typically arising as an incidental discovery during surgery or autopsy[2-3]. It was reported that 0.2% of the cases were diagnosed during abdominal surgery and 0.55%-13.7% were diagnosed during autopsy and were mostly seen in men aged 30-50 years [10], with a male to female incidence ratio of approximately 3:1. However, the two patients in this report were women. Depending on the site of the lesion, some patients may present with nonspecific symptoms and complications such as abdominal pain, nausea, dysphagia, dyspepsia, bleeding and pancreatitis, gastric outlet obstruction or even malignant transformation[11, 12]. Neither of the two patients in this report developed these complications. All pancreatic related diseases can also occur in ectopic pancreatic tissue [13]. A small percentage of patients may present with other symptoms, such as jaundice and biliary obstruction, perforation, fever, diarrhea, abscess, and carcinoid syndrome caused by jugular lesions[9].

Understanding and mastering the characteristic imaging manifestations of ectopic pancreas is the key to making a confirmatory diagnosis preoperatively. On imaging, ectopic pancreas is identified by a submucosal mass, presenting as an ill-defined lesion with an intraluminal growth pattern. A CT scan typically reveals enhancement similar to that of the normal pancreas, with surface depression and low attenuation within the lesion[14]. Additionally, a duct-like weakly enhancing shadow, known as the central duct sign, may be observed[15]. The typical endoscopic presentation is a welldefined submucosal lesion[16], and a depression formed at the edge of the lesion, known as the umbilical recess sign[15].

The reasons for the misdiagnosis and omission of the two cases in this report were analyzed. Firstly, the incidence of ectopic pancreas is low and relatively rare in clinical practice. Secondly, the small size of the ectopic pancreatic lesion makes the disease extremely easy to overlook. Both cases lacked specific clinical manifestations.

Most patients undergo surgical or endoscopic resection to relieve symptoms [9]. Therefore, patients with symptoms or complications are treated aggressively; however, the need for resection in those patients who are asymptomatic or whose symptoms have resolved remains controversial [17]. Studies have shown that local surgical resection can satisfactorily treat symptomatic patients who have failed to respond to pharmacological treatment, unless malignant transformation is present[10].

Benign neoplastic lesions caused by ectopic gastric pancreas are less common clinically, and carcinogenesis of ectopic glandular epithelium is even rarer[18]. In 1999, Makhlouf et al[19] reported that in 109 cases of gastrointestinal ectopic pancreas, the probability of malignancy was only 1.8%, and tumors were more common in the upper digestive tract.

Similar to the challenging diagnostic assessment of ectopic pancreas, evaluating the transplant donor poses a similar level of difficulty. In recent years, organ scarcity has led to the utilization of organs from individuals with a cancer history or newly discovered cancer during evaluation for transplantation. However, using organs from donors with a cancer history does come with a risk of cancer transmission. While this risk is extremely low, with reported incidences ranging from approximately 0.03% to 0.06%, the potential consequences can be severe. Although this risk can be reduced by careful assessment, it cannot be eliminated. The survival rate and prognosis of different types of tumors varies, with the prognosis of melanoma and neuroendocrine tumors reported to be the worst [20]. Thus, proper donor risk assessment is critical. The selection of donors should be carefully evaluated, with caution in the use of donor organs with a potentially high metastatic malignancy, while weighing up the risk factors for individual patients. Autopsy and timely pathology allows early detection of cancer and rapid transplantation, but it has a low pickup rate and not always accepted by families. Therefore, radiography should also be considered as a method for donor assessment [21]. At present, experts have suggested some effective methods, such as that of the Second Opinion in Italy. The timing of transplantation is equally important because organs must be transplanted as soon as possible to ensure the best possible results and the success of transplantation, enabling remote pathology systems and promoting the application of artificial intelligence [22].

CONCLUSION

In summary, clinicians and imaging experts aim to increase our understanding of ectopic pancreas, familiarize us with the typical imaging manifestations of ectopic pancreas, and identify a gastrointestinal space during endoscopy or biopsy, consider the possibility of ectopic pancreas, promote early detection and early diagnosis, and make a correct decision on whether to perform surgical intervention.

FOOTNOTES

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7226



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