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Contents

Thrice Monthly Volume 11 Number 7 March 6, 2023

OPINION REVIEW

1434 Reconstruction surgery in head and neck cancer patients amidst the COVID-19 pandemic: Current practice and lessons for the future

Lizambri D, Giacalone A, Shah PA, Tovani-Palone MR

REVIEW

1442 Risk factors and digital interventions for anxiety disorders in college students: Stakeholder perspectives Liu XQ, Guo YX, Xu Y

MINIREVIEWS

Immune-related adverse events induced by programmed death protein-1 inhibitors from the perspective 1458 of lymphoma immunotherapy

Hou YZ, Zhang Q, Bai H, Wu T, Chen YJ

ORIGINAL ARTICLE

Clinical and Translational Research

Analysis of differentially expressed genes related to cerebral ischaemia in young rats based on the Gene 1467 Expression Omnibus database

Xia Y. Liu H. Zhu R

Retrospective Study

1477 Deep learning-assisted diagnosis of femoral trochlear dysplasia based on magnetic resonance imaging measurements

Xu SM, Dong D, Li W, Bai T, Zhu MZ, Gu GS

1488 Facial basal cell carcinoma: A retrospective study of 67 cases

Khalil AA, Enezei HH, Aldelaimi TN, Al-Ani RM

CASE REPORT

1498 Successful multidisciplinary therapy for a patient with liver metastasis from ascending colon adenocarcinoma: A case report and review of literature

Tan XR, Li J, Chen HW, Luo W, Jiang N, Wang ZB, Wang S

- 1506 Accessory renal arteries - a source of hypertension: A case report Calinoiu A, Guluta EC, Rusu A, Minca A, Minca D, Tomescu L, Gheorghita V, Minca DG, Negreanu L
- 1513 Synchronous multiple primary malignant neoplasms in breast, kidney, and bilateral thyroid: A case report Jia MM, Yang B, Ding C, Yao YR, Guo J, Yang HB



<u> </u>	World Journal of Clinical Cases	
Conten	Thrice Monthly Volume 11 Number 7 March 6, 2023	
1521	Invasive breast carcinoma with osteoclast-like stromal giant cells: A case report	
	Wang YJ, Huang CP, Hong ZJ, Liao GS, Yu JC	
1528	Retroperitoneal and abdominal bleeding in anticoagulated COVID-19 hospitalized patients: Case series and brief literature review	
	Evrev D, Sekulovski M, Gulinac M, Dobrev H, Velikova T, Hadjidekov G	
1549	Hyperthyroidism and severe bradycardia: Report of three cases and review of the literature	
	He YL, Xu WX, Fang TY, Zeng M	
1560	Isolated cerebral mucormycosis that looks like stroke and brain abscess: A case report and review of the literature	
	Chen CH, Chen JN, Du HG, Guo DL	
1569	Gastric ectopic pancreas combined with synchronous multiple early gastric cancer: A rare case report	
	Zhao ZY, Lai YX, Xu P	
1576	Manifestation of the malignant progression of glioma following initial intracerebral hemorrhage: A case report	
	Xu EX, Lu SY, Chen B, Ma XD, Sun EY	
1586	Four kinds of antibody positive paraneoplastic limbic encephalitis: A rare case report	
	Huang P, Xu M	
1593	Spontaneous fracture of a titanium mesh cranioplasty implant in a child: A case report	
	Zhang R, Gao Z, Zhu YJ, Wang XF, Wang G, He JP	
1600	Rheumatic valvular heart disease treated with traditional Chinese medicine: A case report	
	Chen WH, Tan Y, Wang YL, Wang X, Liu ZH	
1607	Mucosa-associated lymphoid tissue lymphoma of the trachea treated with radiotherapy: A case report	
	Zhen CJ, Zhang P, Bai WW, Song YZ, Liang JL, Qiao XY, Zhou ZG	
1615	Bow-and-arrow sign on point-of-care ultrasound for diagnosis of pacemaker lead-induced heart perforation: A case report and literature review	
	Chen N, Miao GX, Peng LQ, Li YH, Gu J, He Y, Chen T, Fu XY, Xing ZX	
1627	Prostate lymphoma with renal obstruction; reflections on diagnosis and treatment: Two case reports	
	Chen TF, Lin WL, Liu WY, Gu CM	
1634	Pulmonary nocardiosis with bloodstream infection diagnosed by metagenomic next-generation sequencing in a kidney transplant recipient: A case report	
	Deng ZF, Tang YJ, Yan CY, Qin ZQ, Yu N, Zhong XB	
1642	Primary yolk sac tumor in the abdominal wall in a 20-year-old woman: A case report	
	Wang Y, Yang J	



Contor	World Journal of Clinical Cases
Conter	Thrice Monthly Volume 11 Number 7 March 6, 2023
1650	Misdiagnosis of food-borne foreign bodies outside of the digestive tract on magnetic resonance imaging: Two case reports
	Ji D, Lu JD, Zhang ZG, Mao XP
1656	IgG4-related kidney disease complicated with retroperitoneal fibrosis: A case report <i>He PH, Liu LC, Zhou XF, Xu JJ, Hong WH, Wang LC, Liu SJ, Zeng JH</i>
	LETTER TO THE EDITOR

Commentary on a case report and literature review of acute carotid stent thrombosis 1666 Willman M, Lucke-Wold B



Contents

Thrice Monthly Volume 11 Number 7 March 6, 2023

ABOUT COVER

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WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

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CASE REPORT

Gastric ectopic pancreas combined with synchronous multiple early gastric cancer: A rare case report

Zhen-Ya Zhao, Yue-Xing Lai, Ping Xu

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Abstract

BACKGROUND

A large percentage of patients with ectopic pancreas are asymptomatic. When present, the symptoms are typically non-specific. These lesions are predominantly located in the stomach and benign in nature. Synchronous multiple early gastric cancer (SMEGC) (two or more simultaneous malignant lesions with early gastric cancer) is relatively rare and particularly easy to overlook during endoscopic examination. The prognosis of SMEGC is generally poor. We report a rare case of ectopic pancreas with concomitant SMEGC.

CASE SUMMARY

A 74-year-old woman presented with paroxysmal upper abdominal pain. On initial investigations, she tested positive for Helicobacter pylori (H. pylori). She underwent esophagogastroduodenoscopy which revealed a 1.5 cm × 2 cm major lesion at the greater curvature and a 1 cm minor lesion at the lesser curvature of the stomach. On endoscopic ultrasound, the major lesion showed hypoechoic changes, uneven internal echoes and unclear boundaries between some areas and the muscularis propria. Endoscopic submucosal dissection was performed to excise the minor lesion. A laparoscopic resection was chosen for the major lesion. On histopathological examination, the major lesion contained high grade intraepithelial neoplasia with a small focus of cancer. A separate underlying ectopic pancreas was found under this lesion. The minor lesion contained high grade intraepithelial neoplasia. In this case, the patient was diagnosed with SMEGC with concomitant ectopic pancreas in the stomach.

CONCLUSION

Patients with atrophy, H. pylori, and other risk factors should be carefully investigated to avoid missing other lesions including SMEGC and ectopic pancreas.

Key Words: Synchronous multiple early gastric cancer; Ectopic pancreas; Pathology; Case report

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Core Tip: This case demonstrates that ectopic pancreas can be found in combination with synchronous multiple early gastric cancer (SMEGC). Careful endoscopic inspection of the mucosal surface is mandatory to avoid overlooking SMEGC. It is important to be mindful of the possible presence of ectopic pancreas, perform an in-depth evaluation and select the correct surgical option for excision or resection. This case also reminds us that in the presence of atrophy, intestinal metaplasia and Helicobacter pylori infection combined with ectopic pancreas, it is necessary to evaluate the stomach very carefully, so as not to miss the diagnosis of early gastric cancer.

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INTRODUCTION

Ectopic pancreas is usually asymptomatic, is situated in the stomach, and is usually benign. Inflammation, ulceration, bleeding, luminal obstruction, and, very rarely, malignant transformation are all complications related to ectopic pancreas. There are some papers of concomitant early gastric cancer (EGC) and ectopic pancreas. Murabayashi et al[1] reported the first case of EGC located just above an ectopic pancreas. Similarly, Yoon et al[2] reported an EGC combined with underlying ectopic pancreas. The majority of reports in the literature describe ectopic pancreas with gastric carcinoma. Ectopic pancreas combined with synchronous multiple EGC (SMEGC) has rarely been reported.

SMEGC accounts for 3%-15% of all gastric cancer cases. It is defined as two or more simultaneous, malignant lesions associated with EGC detected during postoperative pathological examination[3]. Overall, the prognosis is poor. Importantly, it is particularly easy to overlook during preoperative endoscopic examination. Risk factors include severe mucosal atrophy, intestinal metaplasia and Helicobacter pylori (H. pylori) infection.

SMEGC combined with ectopic pancreas is rare. Here, we report the case of SMEGC combined with an underlying ectopic pancreas in a female in her 70's. In our case, two EGC lesions were found in the patient's stomach. The major lesion was located just above an ectopic pancreas. Synchronously, another lesion, an EGC, was found in the gastric body.

CASE PRESENTATION

Chief complaints

Paroxysmal upper abdominal pain for 1 mo.

History of present illness

A 74-year-old female complaining of paroxysmal upper abdominal pain for 1 mo was admitted to our hospital for investigation.

History of past illness

She had a history of hypertension for more than 10 years and was treated with one pill of irbesartan 1 d.

Personal and family history

She denied a history of abdominal disease and/or surgery and had no family history of cancer.

Physical examination

Her admission vital signs were normal. No abnormality was found in the physical examination.

Laboratory examinations

Serum laboratory results and tumor markers were within normal limits. Her urea breath test was positive for *H. pylori*.



Imaging examinations

Computed tomography did not demonstrate a tumor or lymphadenopathy.

FINAL DIAGNOSIS

SMEGC combined with ectopic pancreas.

TREATMENT

She underwent esophagogastroduodenoscopy, which revealed two lesions. The larger curvature of the stomach antrum was where the major lesion was found (Figure 1). It had a raised erythematous surface with heart-shaped ulceration. The smaller curvature of the upper stomach body was where the minor lesion was found (Figure 2). Its surface was also erythematous. There was a slight depression in its center. The major and minor lesions measured 1.5 cm × 2 cm and 1.0 cm respectively. Narrow band imaging (NBI) combined with magnifying endoscopy (ME) was utilized to further classify the lesions and suggested that they were all type IIc (superficial depressive type per the Japanese Classification of Gastric Cancer classification system). ME-NBI exhibited uneven microvascular and micro surface patterns with a demarcation line of the stomach antrum. On endoscopic ultrasonography, the major lesion showed hypoechoic changes, uneven internal echoes and unclear boundaries between some areas and the muscularis propria. Biopsies were taken of both lesions. Histopathological examination revealed that the major lesion contained high grade intraepithelial neoplasia and the minor lesion contained low grade intraepithelial neoplasia. Initially, the patient was going to be treated exclusively with endoscopic submucosal dissection (ESD); however, a laparoscopic resection was chosen for the major lesion (Billroth II combining Braun), Because of the liquid is injected into the submucosa, there is no upward movement of the muscle layer in the lesion; while ESD was performed on the minor lesion (Figure 3).

OUTCOME AND FOLLOW-UP

On histopathological examination of the resected specimens, the gastric antrum lesion contained high grade intraepithelial neoplasia with a small focus of cancer. The lesion was limited to the mucosa. A separate underlying ectopic pancreas was found under this lesion (Figure 4). The minor lesion specimen showed high grade intraepithelial neoplasia. The patient improved and discharged.

DISCUSSION

EGC is defined as gastric cancer that is confined to mucosa or submucosa, without considering lymph node metastasis. The prognosis for stomach cancer is generally poor; however, early detection increases the 5-year disease survival rate (99.3% for mucosal cancer and 97.2% for submucosal cancer)[4]. According to Moertel *et al*'s criteria, SMEGC is defined as multiple EGC lesions[5]. SMEGC contributes for 3%-15% of all incidences of gastric cancer. As a result, it's critical to recognize other potential lesions while making an endoscopic diagnosis of EGC. These individuals may miss the chance for early therapy and their early cancer might progress if synchronous cancer lesions are disregarded. The detection rate of SMEGC has greatly risen recently as a result of continual improvements in diagnostic endoscopy, pathologic examination, and therapeutic approaches; nonetheless, SMEGC is still particularly simple to miss during endoscopic inspection.

In previous studies, advanced age, male sex, well-differentiated type, raised morphology, smaller tumor size and less depth of invasion have been associated with SMEGC[6]. The "field carcinogenesis" hypothesis suggests that a chronic carcinogenic background may result in two or more lesions with similar clinicopathological characteristics[7,8]; however, little is known about the pathogenesis of the development of multiple gastric cancers. In our case, two lesions with early cancer were simultaneously detected. Advanced age, H. pylori infection, severe mucosal atrophy and intestinal metaplasia were risk factors for gastric cancer. Our case had the very rare finding of a major lesion located above the ectopic pancreas.

Ectopic pancreas is a birth defect in which pancreatic tissue splits from the primary gland and survives without vascular or ductal integrity. There are four distinct varieties of ectopic pancreas according to histology: type I (full ectopic), which is composed of all three types of pancreatic cells (acini, ducts, and islet cells); type II (partial ectopic); and type III (partial ectopic). Type II, canalicular ectopic, just ductal components; The only cells present in Type III (exocrine ectopic) are acinar cells, while Type IV (endocrine ectopic) are islet cells[9]. Ectopic pancreas can occur anywhere in the





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Figure 1 The major gastric lesion. A: White light imaging demonstrating a heart-shaped lesion. The demarcation line is highlighted with a yellow dashed line. The arrow indicates the ectopic pancreatic opening; B: Indigo carmine dying; C and D: Narrow band imaging combined with magnifying endoscopy; E and F: Endoscopic ultrasound demonstrating hypoechoic changes, uneven internal echoes and unclear boundaries between some areas and muscularis propria in the major lesion.

> gastrointestinal tract; however, in 20%-40% of cases, the ectopic pancreas is found in the stomach[10]. Most patients are asymptomatic. When present, the main clinical manifestations are abdominal pain, abdominal distention and gastrointestinal bleeding.

> Although its radiological and endoscopic characteristics can be helpful, determining a preoperative diagnosis of ectopic pancreas is difficult. Therefore, pathological examination is the gold standard for the diagnosis. Ectopic pancreas functions are similar to a normal pancreas. Hence, it is easily affected by the diseases, such as pseudocyst development and pancreatitis. Possible complications caused by mass effect These include Ulcer, bleeding, obstruction and intussusception[2]. Malignant transformation of ectopic pancreas is rare. The three criteria listed below must be satisfied for the diagnosis of a cancer originating from an ectopic pancreas: A direct transition between the pancreatic structures and the carcinoma must be seen, the carcinoma must be within or close to the heterotopic pancreatic tissue, and the non-neoplastic pancreatic tissue must have at least completely developed acini and ductal structures [11].

> In our case, ectopic pancreas was composed of ductal components and acinar cells. There were no dysplastic or malignant changes in the ectopic pancreas. Our case was characterized by a SMEGC combined with an underlying ectopic pancreas. Some literature reports that ectopic pancreas may secrete pancreatic juice or enzymes which may cause damage to the gastrointestinal mucosa and cause abdominal pain, abdominal distension and even gastrointestinal bleeding[12]. It is also reported that a small number of ectopic pancreas secrete mucus, which is discharged through the duct and forms a foveal like change. The characteristic manifestation of "central foveal sign" may appear [13]. Some case reports demonstrate the existence of ectopic pancreas combined with EGC; however, there are few reports of ectopic pancreas combined with SMEGC[1,2]. There may be a certain correlation between ectopic pancreas and the occurrence of multiple gastric cancers. According to the JCGC classification, the macroscopic type of gastric lesions are divided into the following: elevated (0-I), superficial elevated (0-IIa), flat (0-IIb), superficial depressive (0-IIc), and depressive types (0-III). The macroscopic type of the lesions in our case were all the flat type (IIc). A depression may be seen at the top of any of these gastric lesions. This is where the opening of the ectopic pancreas may be located. The ectopic pancreas can then secrete mucus through the opening affecting inflammation of the local gastric mucosa and changing the internal environment of the stomach. This may further be associated with the occurrence of multiple gastric cancers. Additionally, it may be that longstanding inflammation or erosion or mucosal





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Figure 2 The minor gastric lesion. A: White light imaging. The demarcation line is highlighted with a yellow dashed line; B-D: Narrow band imaging combined with magnifying endoscopy.



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Figure 3 Histopathological specimen showing high-grade intraepithelial neoplasia of the gastric body lesion after endoscopic submucosal dissection. A: hematoxylin-eosin staining (40×); B: hematoxylin-eosin staining (200×).

protrusion itself promotes gastric carcinogenesis.

CONCLUSION

In conclusion, we report a rare case of SMEGC combined with ectopic pancreas which may have important clinical implications. It may be that the ectopic pancreas secreted pancreatic enzymes further



Zhao ZY et al. SMEGC combined with ectopic pancreas



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Figure 4 Ectopic Pancreas (indicated by the red circle). Arrow indicates beginning of the early cancer. The thin arrow indicates the opening of the ectopic pancreas opens. The yellow box indicates cancer.

> causing alteration of the gastric environment and promoting SMEGC. Careful endoscopic inspection of the mucosal surface is mandatory to avoid overlooking SMEGC. It is important to be mindful of the possible presence of ectopic pancreas, perform an in-depth evaluation and select the correct surgical option for excision or resection. Finally, this case also reminds us that in the presence of atrophy, intestinal metaplasia and H. pylori infection combined with ectopic pancreas, it is necessary to evaluate the stomach very carefully, so as not to miss the diagnosis of EGC.

FOOTNOTES

Author contributions: Zhao ZY wrote the paper; Lai YX performed endoscopy and endoscopic submucosal dissection; Xu P revised the article; all authors have read and approved the final manuscript.

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