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Contents

Thrice Monthly Volume 12 Number 1 January 6, 2024

OPINION REVIEW

1 Gut-targeted therapies for type 2 diabetes mellitus: A review

Xu TC, Liu Y, Yu Z, Xu B

MINIREVIEWS

9 Honeymoon phase in type 1 diabetes mellitus: A window of opportunity for diabetes reversal? Mittal M, Porchezhian P, Kapoor N

ORIGINAL ARTICLE

Retrospective Cohort Study

15 Evaluating combined bevacizumab and XELOX in advanced colorectal cancer: Serum markers carcinoembryonic antigen, carbohydrate antigen 125, carbohydrate antigen 199 analysis

Zhou DB, Cheng J, Zhang XH

24 Clinical value of precise rehabilitation nursing in management of cerebral infarction Xu YN, Wang XZ, Zhang XR

Retrospective Study

Marker Ki-67 is a potential biomarker for the diagnosis and prognosis of prostate cancer based on two 32 cohorts

Song Z, Zhou Q, Zhang JL, Ouyang J, Zhang ZY

42 Natural history of asymptomatic gallbladder stones in clinic without beds: A long-term prognosis over 10 vears

Sakai Y, Tsuyuguchi T, Ohyama H, Kumagai J, Kaiho T, Ohtsuka M, Kato N, Sakai T

51 Clinical nursing value of predictive nursing in reducing complications of pregnant women undergoing short-term massive blood transfusion during cesarean section

Cheng L, Li LP, Zhang YY, Deng F, Lan TT

59 Effect of cardiac rehabilitation care after coronary intervention on cardiac function recovery and negative mood in patients with myocardial infarction Yang M, Huang YT, Hu XW, Wu CL

68 Efficacy and safety of Nafamostat mesylate in patients with end-stage renal failure Liu K, Li ZH

76 Nursing effect of narrative nursing intervention on postoperative patients with severe lung cancer Wen B, Liu Y, Min XX, Wang AQ



Contents

Thrice Monthly Volume 12 Number 1 January 6, 2024

Observational Study

Interaction between adolescent sleep rhythms and gender in an obese population 86 Wu NN, Yan GL, Zhang HY, Sun L, Hou M, Xu GM

SYSTEMATIC REVIEWS

95 Endoscopic submucosal dissection vs transanal endoscopic surgery for rectal tumors: A systematic review and meta-analysis

Huang LW, Zhong Y

107 Impact of frailty on outcomes of elderly patients undergoing percutaneous coronary intervention: A systematic review and meta-analysis

Wang SS, Liu WH

119 Nasogastric tube syndrome: A Meta-summary of case reports Juneja D, Nasa P, Chanchalani G, Jain R

CASE REPORT

- 130 Erythrodermic mycosis fungoides: A case report Xu WB, Zhang YP, Zhou SP, Bai HY
- 136 Azacitidine maintenance therapy for blastic plasmacytoid dendritic cell neoplasm allograft: A case report Tao LL, Wen HT, Wang ZY, Cheng J, Zhao L
- 142 Congestive ischemic colitis successfully treated with anti-inflammatory therapy: A case report Lee GW, Park SB
- 148 Subarachnoid hemorrhage misdiagnosed as acute coronary syndrome leading to catastrophic neurologic injury: A case report

Lin JM, Yuan XJ, Li G, Gan XR, Xu WH

- 157 Successful management of severe hypoglycemia induced by total parenteral nutrition in patients with hepatocellular injury: Three cases reports Fang LZ, Jin HX, Zhao N, Wu YP, Shi YQ
- 163 Endophthalmitis in silicone oil-filled eye: A case report Yan HC, Wang ZL, Yu WZ, Zhao MW, Liang JH, Yin H, Shi X, Miao H
- 169 Lung imaging characteristics in a patient infected with Elizabethkingia miricola following cerebral hemorrhage surgery: A case report

Qi PQ, Zeng YJ, Peng W, Kuai J

176 Gastric IgG4-related disease mimicking a gastrointestinal stromal tumor in a child: A case report Lin HCA, Lee KF, Huang TH

180 Labial inverse dilaceration of bilateral maxillary central incisors: A case report Wang JM, Guo LF, Ma LQ, Zhang J



| Conton | World Journal of Clinical Cases | |
|--------|--|--|
| Conten | Thrice Monthly Volume 12 Number 1 January 6, 2024 | |
| 188 | Changes in macrophage infiltration and podocyte injury in lupus nephritis patients with repeated renal biopsy: Report of three cases | |
| | Liu SY, Chen H, He LJ, Huang CK, Wang P, Rui ZR, Wu J, Yuan Y, Zhang Y, Wang WJ, Wang XD | |
| 196 | Primary acinic cell carcinoma of the breast: A case report and review of literature <i>Ding JS, Zhang M, Zhou FF</i> | |
| 204 | Acupuncture for cervical dystonia associated with anxiety and depression: A case report Zhang YT, Zhang JJ, Zha BX, Fan YQ, Xu YB, Yang J, Zhang QP | |
| 210 | Intestinal malrotation complicated with gastric cancer: A case report Jia XH, Kong S, Gao XX, Cong BC, Zheng CN | |
| 217 | Addison's disease caused by adrenal tuberculosis may lead to misdiagnosis of major depressive disorder: A case report | |
| | Zhang TX, Xu HY, Ma W, Zheng JB | |
| 224 | Pleural empyema with endobronchial mass due to <i>Rhodococcus equi</i> infection after renal transplantation: A case report and review of literature | |
| | Liang GF, Chao S, Sun Z, Zhu KJ, Chen Q, Jia L, Niu YL | |
| | LETTER TO THE EDITOR | |

232 Chronic venous insufficiency, could it be one of the missing pieces in the puzzle of treating pain? Chang MC



Contents

Thrice Monthly Volume 12 Number 1 January 6, 2024

ABOUT COVER

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The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

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

Intestinal malrotation complicated with gastric cancer: A case report

Xiang-Hao Jia, Shuai Kong, Xin-Xin Gao, Bi-Cong Cong, Chun-Ning Zheng

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Abstract

BACKGROUND

Intestinal malrotation is a congenital defect of embryonic development caused by various teratogenic factors. In this condition, the intestinal tube, along with the superior mesenteric artery serving as the axis for the counterclockwise movement, is incomplete or abnormally rotated due to incomplete attachment of the mesentery and abnormal intestinal tube position. Such a case is usually asymptomatic and thus difficult to detect. Therefore, similar variant malformations are only found during an operation required for other abdominal diseases.

CASE SUMMARY

An elderly male patient was admitted to the hospital due to gastric cancer. An abdominal computed tomography (CT) scan with contrast revealed that the ascending and descending colon were parallel on the right side of the abdominal cavity, while the sigmoid colon extended into the right iliac fossa, allowing the diagnosis of congenital midgut malrotation. Following thorough preoperative preparation, the patient underwent laparoscopic radical gastrectomy to treat his gastric cancer. Intraoperatively, an exploration of the abdominal cavity uncovered the absence of the transverse colon. The distal colon at the hepatic flexure, along with the ascending colon, extended into the right iliac fossa, where it continued as the sigmoid colon. As planned, the laparoscopic radical gastrectomy was performed, and the patient was discharged from the hospital 7 d after the surgery.

CONCLUSION

Asymptomatic intestinal malrotation is best detected by CT, requiring no treatment but possibly interfering with the treatment of other diseases.

Key Words: Intestinal malrotation; Congenital malformation; Gastric cancer; Abdominal



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computed tomography; Laparoscopic surgery; Case report

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Core Tip: Intestinal malrotation is a congenital defect that often goes unnoticed, lacks clinical symptoms, and can complicate the management of other abdominal conditions. Surgeons must recognize the potential presence of intestinal malrotation to adjust their approach effectively during abdominal surgery.

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INTRODUCTION

Intestinal malrotation is a malformation of the digestive tract resulting from the abnormal counterclockwise rotation of the midgut around the axis of the superior mesenteric artery during embryonic development. Genetic factors, intrauterine developmental abnormalities, and adverse environmental conditions may disrupt the normal rotation of the midgut. This results in positional variations of the intestinal tube and abnormalities in mesenteric attachment[1]. Previous studies on intestinal malrotation typically described cases where the jejunum and ileum are located on the right side of the abdominal cavity while the colon is on the left side. This paper presents a case characterized by the absence of the transverse colon, the presence of the right-sided descending and sigmoid colon, and the coexistence of a malignant tumor in the gastric antrum. Such a combination is exceedingly rare in the context of intestinal rotation cases.

CASE PRESENTATION

Chief complaints

A 70-year-old male patient, who was diagnosed with gastric cancer 4 d ago, was admitted to the hospital with a chief complaint of epigastric pain for 3 mo.

History of present illness

The patient presented with abdominal pain, requiring gastroscopy. The pathology revealed adenocarcinoma in the gastric antrum, prompting the patient to seek surgical intervention at the hospital.

History of past illness

The patient underwent urolithotomy > 60 years ago.

Personal and family history

He has no family history of related diseases or any other hereditary conditions.

Physical examination

The abdomen appeared flat without tenderness, rebound pain, or muscle tension. The tympanic sound was heard on percussion, and there were no signs of displaced fluid or turbidity. Bowel sounds were observed at a rate of 3-5 beats per minute.

Laboratory examinations

All laboratory tests were within normal limits.

Imaging examinations

Abdominal computed tomography (CT) with contrast showed gastric antrum cancer and perigastric lymph node metastasis. As shown in Figure 1, the distal colon at the hepatic flexure was accompanied by the ascending colon in the right iliac fossa and continued as the sigmoid colon. The jejuno-ileum was located mainly on the left side of the abdomen. The superior mesenteric artery originated from the abdominal aorta at the level of the first lumbar vertebra (Figure 2A), supplying most of the jejunoileum on the left and the terminal ileum, the ascending colon, and part of the descending colon on the right. The abdominal aorta branched into the inferior mesenteric artery inferiorly to the right at the level of the second lumbar vertebra to supply a portion of the descending colon, the sigmoid colon, and a portion of the rectum (Figure 2B).





Figure 1 Imaging of the abdomen. A: 3D image acquired using RadiAnt DICOM VIEWER showing that the entire colon is on the right side of the abdomen; B: Digital radiography image showed the entire colon on the right side of the abdominal cavity; C: 3D image acquired using 3D Slicer image computing platform showing that the entire colon was on the right side of the abdomen; D: Coronal reconstruction of the computed tomography (CT) images showed the entire colon on the right side of the abdominal cavity; E: Transverse reconstruction of the CT images showed that the sigmoid colon was in the right iliac fossa.

Regarding the venous course, the splenic vein joined the superior mesenteric vein in the portal vein from the left at the level of the first lumbar vertebra (Figure 2C). The inferior mesenteric vein joined the superior mesenteric vein on the right side at the level of the third and fourth lumbar vertebrae (Figure 2D and E). As a result of mesenteric malrotation, the position of superior and inferior mesenteric vessels was altered (Figure 2F and G).

FINAL DIAGNOSIS

The patient was thus diagnosed with a malignant tumor of the gastric sinus and intestinal malrotation.

TREATMENT

As shown in Figure 3, laparoscopic radical gastrectomy was performed as planned without addressing the issue of intestinal malrotation.

OUTCOME AND FOLLOW-UP

The patient was discharged after seven days of postoperative hospitalization with satisfactory recovery.

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Figure 2 Reconstruction images of the abdomen. A: Sagittal reconstruction of the computed tomography (CT) images showed the superior mesenteric artery (SMA) emanated from the abdominal aorta; B: Transverse reconstruction of the CT images showed the inferior mesenteric artery (IMA) originating from the abdominal aorta; C: Coronal reconstruction of the CT images showed the splenic vein joining the superior mesenteric vein (SMV), forming the portal vein; D: Coronal reconstruction of the CT images showed the inferior mesenteric vein (IMV) joining the SMV on the right side of the abdominal aorta; E: Coronal reconstruction of the CT images showed the IMV converging into the SMV as a result of mesentery malrotation; F: Transverse reconstruction of the CT images showed the SMA on the right to the SMV; G: Transverse reconstruction of the CT images showed the IMA and IMV running alongside the right side of the common iliac artery. SMA: Superior mesenteric artery; IMA: Inferior mesenteric artery; SV: Splenic vein; SMV: Superior mesenteric vein; IMV: Inferior mesenteric vein.

DISCUSSION

Intestinal malrotation is a congenital defect of embryonic development. Normally, from the 6th wk of embryonic development, the midgut loop rotates 90° counterclockwise on the axis of the superior mesenteric artery, turning the structures from a sagittal to a horizontal position. In the 10th wk, the intestinal collaterals return to the abdominal cavity from the umbilical cavity and continue to rotate counterclockwise by 180°, with the cephalic branch shifting to the left and the caudal branch shifting to the right, positioning the jejunum and ileum in the middle of the abdominal cavity. The cecum protrudes initially under the liver and then descends to the right iliac fossa as the ascending colon forms. The caudal segment of the descending colon moves to the midline to form the sigmoid colon. Abnormalities in any of the above-mentioned processes can lead to the malposition of the bowel and mesenteric vessels[2].

In this case, only the ascending colon had normal alignment. The transverse colon was absent, the distal and ascending colon traveled to the right iliac fossa and continued as the sigmoid colon. Hence, the entire colon was located on the right side of the abdominal cavity, which might be caused by the return of the head branch of the mesenteric collaterals to the abdominal cavity in the 10th wk of embryonic development. Thus, the posterior bowel was not pushed to the left side but instead was pushed to the right side to form a right-sided descending and sigmoid colon. The rotation of the ascending colon formed by the caudal branch of the midgut was basically normal; therefore, the ascending and descending colon converged directly in the hepatic flexure, and the transverse colon was absent, an extremely rare case not reported in the literature.

Intestinal malrotation can manifest at any age, with abdominal pain and vomiting being the most prevalent clinical symptoms, occurring in approximately 50% of patients during initial presentation[3]. In infants and children, symptoms tend to be more severe in the early stages, facilitating prompt diagnosis and treatment. Conversely, adults may experience mild or no clinical symptoms in the initial stages, making timely diagnosis challenging. As a result, malrotation in adults is frequently incidentally discovered during surgery for other medical conditions[4].

Diagnosing intestinal malrotation can be accomplished through various methods, including imaging of the entire digestive tract with barium, barium enema of the colon, abdominal CT, and mesenteric angiography. Among these methods, abdominal CT offers certain advantages. It not only reveals the distribution of the intestinal tract and the perfusion of the intestinal wall in multiple planes and dimensions but also allows for an assessment of the anatomy, such as the proximity of the intestinal tract and its mesentery to neighboring organs. Some studies suggested that abdominal CT is the preferred diagnostic method for suspected intestinal malrotation in adults [5,6]. Specifically, the presence of the whirl-like pattern and the transposition of the superior mesenteric artery and vein on abdominal CT indicate intestinal

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Figure 3 Laparoscopy findings during surgery. A: Laparoscopy revealed the absence of the gastrocolic ligament and transverse colon; B: Laparoscopy revealed that the left paracolic groove did not contain the colon; C: Laparoscopy revealed that the sigmoid colon was absent in the left iliac fossa; D: Laparoscopy revealed that the sigmoid colon was absent in the left iliac fossa; E: Laparoscopy revealed that both ascending and descending colon were on the right side of the abdomen; F: Laparoscopy revealed that the sigmoid colon was in the right filiac fossa.

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malrotation[7].

Xiong et al[8] classified intestinal malrotation into ten categories based on positional variations of three common anatomical landmarks (duodenum, jejunum, and cecum) observed on CT images. However, the current case did not align with any of these established categories. The Ladd procedure is the established treatment for symptomatic patients with midgut malrotation. It can be performed either through open or laparoscopic surgery and is beneficial for the majority of patients^[9]. However, the necessity of surgical treatment for asymptomatic patients remains controversial. Choi *et al*^[10] conducted a review studying 177 patients over 35 years, suggesting that asymptomatic patients face a low risk of adverse events and do not require specific treatment. In contrast, some scholars argue that all patients diagnosed with intestinal malrotation should undergo surgical treatment, irrespective of whether they have symptoms^[11].

CONCLUSION

The patient in this case was admitted to the hospital due to gastric cancer. Both preoperative CT and intraoperative inspection identified congenital intestinal malrotation. As the patient's colonic deformity remained asymptomatic, laparoscopic radical gastrectomy was performed as planned. However, the absence of the transverse colon and gastrocolic ligament presented challenges during the operation, particularly in the dissection of the greater curvature of the stomach and the identification and ligation of the gastroepiploic vessels. In summary, asymptomatic intestinal malrotation does not require clinical intervention. However, its associated anatomical variations can impact other surgical procedures. Therefore, conducting preoperative CT scan and other relevant examinations to identify these variations in advance is crucial for ensuring a successful surgical outcome.

FOOTNOTES

Author contributions: Jia XH drafted, reviewed, and revised the manuscript; Zheng CN was the primary physician during the patient's hospital stay; Kong S, Gao XX, and Cong BC provided the images; and all authors have read and approved the final manuscript.

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