World Journal of Clinical Cases

World J Clin Cases 2022 May 16; 10(14): 4327-4712





Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

OPINION REVIEW

4327 Emerging role of biosimilars in the clinical care of inflammatory bowel disease patients

Najeeb H, Yasmin F, Surani S

MINIREVIEWS

4334 Practical insights into chronic management of hepatic Wilson's disease

Lynch EN, Campani C, Innocenti T, Dragoni G, Forte P, Galli A

4348 Adipose-derived stem cells in the treatment of hepatobiliary diseases and sepsis

Satilmis B. Cicek GS. Cicek E. Akbulut S. Sahin TT. Yilmaz S

ORIGINAL ARTICLE

Clinical and Translational Research

4357 Learning curve for a surgeon in robotic pancreaticoduodenectomy through a "G"-shaped approach: A cumulative sum analysis

Wei ZG, Liang CJ, Du Y, Zhang YP, Liu Y

4368 Clinical and prognostic significance of expression of phosphoglycerate mutase family member 5 and Parkin in advanced colorectal cancer

Wu C, Feng ML, Jiao TW, Sun MJ

Case Control Study

Significance of preoperative peripheral blood neutrophil-lymphocyte ratio in predicting postoperative 4380 survival in patients with multiple myeloma bone disease

Xu ZY, Yao XC, Shi XJ, Du XR

Retrospective Study

4395 Association between depression and malnutrition in pulmonary tuberculosis patients: A cross-sectional study

Fang XE, Chen DP, Tang LL, Mao YJ

4404 Pancreatic cancer incidence and mortality patterns in 2006-2015 and prediction of the epidemiological trend to 2025 in China

Yin MY, Xi LT, Liu L, Zhu JZ, Qian LJ, Xu CF

4414 Evaluation of short- and medium-term efficacy and complications of ultrasound-guided ablation for small liver cancer

Zhong H, Hu R, Jiang YS

World Journal of Clinical Cases

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

4425 Hematopoiesis reconstitution and anti-tumor effectiveness of Pai-Neng-Da capsule in acute leukemia patients with haploidentical hematopoietic stem cell transplantation

Yuan JJ, Lu Y, Cao JJ, Pei RZ, Gao RL

4436 Oral and maxillofacial pain as the first sign of metastasis of an occult primary tumour: A fifteen-year retrospective study

Shan S, Liu S, Yang ZY, Wang TM, Lin ZT, Feng YL, Pakezhati S, Huang XF, Zhang L, Sun GW

4446 Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorectal cancer

Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q

Observational Study

4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient

Wang HY, Song QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YN, Yang YP, Liu FQ

4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization

Huang JG, Zhang ZY, Li L, Liu GB, Li X

SYSTEMATIC REVIEWS

4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020

Yang J, Liu HX, Su YY, Liang ZS, Rao HY

CASE REPORT

4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature

Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M

4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report

Huguenot M, Bruhm AC, Essig M

4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature

Π

Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH

4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report

Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S

4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report

Xu HJ, Wen GD

4535 Isolated pancreatic injury caused by abdominal massage: A case report

Sun BL, Zhang LL, Yu WM, Tuo HF

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

4541 Bronchiolar adenoma with unusual presentation: Two case reports

Du Y, Wang ZY, Zheng Z, Li YX, Wang XY, Du R

4550 Periodontal-orthodontic interdisciplinary management of a "periodontally hopeless" maxillary central incisor with severe mobility: A case report and review of literature

Jiang K, Jiang LS, Li HX, Lei L

4563 Anesthesia management for cesarean section in a pregnant woman with odontogenic infection: A case report

Ren YL, Ma YS

4569 Convulsive-like movements as the first symptom of basilar artery occlusive brainstem infarction: A case report

Wang TL, Wu G, Liu SZ

4574 Globe luxation may prevent myopia in a child: A case report

Li Q, Xu YX

4580 Computer tomography-guided negative pressure drainage treatment of intrathoracic esophagojejunal anastomotic leakage: A case report

Jiang ZY, Tao GQ, Zhu YF

4586 Primary or metastatic lung cancer? Sebaceous carcinoma of the thigh: A case report

Wei XL, Liu Q, Zeng QL, Zhou H

4594 Perianesthesia emergency repair of a cut endotracheal tube's inflatable tube: A case report

Wang TT, Wang J, Sun TT, Hou YT, Lu Y, Chen SG

4601 Diagnosis of cytomegalovirus encephalitis using metagenomic next-generation sequencing of blood and cerebrospinal fluid: A case report

Xu CQ, Chen XL, Zhang DS, Wang JW, Yuan H, Chen WF, Xia H, Zhang ZY, Peng FH

4608 Primary sigmoid squamous cell carcinoma with liver metastasis: A case report

Li XY, Teng G, Zhao X, Zhu CM

4617 Acute recurrent cerebral infarction caused by moyamoya disease complicated with adenomyosis: A case report

Zhang S, Zhao LM, Xue BQ, Liang H, Guo GC, Liu Y, Wu RY, Li CY

4625 Serum-negative Sjogren's syndrome with minimal lesion nephropathy as the initial presentation: A case report

Li CY, Li YM, Tian M

4632 Successful individualized endodontic treatment of severely curved root canals in a mandibular second molar: A case report

Ш

Xu LJ, Zhang JY, Huang ZH, Wang XZ

World Journal of Clinical Cases

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

4640 Successful treatment in one myelodysplastic syndrome patient with primary thrombocytopenia and secondary deep vein thrombosis: A case report

Liu WB, Ma JX, Tong HX

4648 Diagnosis of an extremely rare case of malignant adenomyoepithelioma in pleomorphic adenoma: A case

Zhang WT, Wang YB, Ang Y, Wang HZ, Li YX

4654 Management about intravesical histological transformation of prostatic mucinous carcinoma after radical prostatectomy: A case report

Bai SJ, Ma L, Luo M, Xu H, Yang L

4661 Hepatopulmonary metastases from papillary thyroid microcarcinoma: A case report

Yang CY, Chen XW, Tang D, Yang WJ, Mi XX, Shi JP, Du WD

4669 PD-1 inhibitor in combination with fruquintinib therapy for initial unresectable colorectal cancer: A case report

Zhang HQ, Huang CZ, Wu JY, Wang ZL, Shao Y, Fu Z

4676 Cutaneous metastasis from esophageal squamous cell carcinoma: A case report

Zhang RY, Zhu SJ, Xue P, He SQ

4684 Rare pattern of Maisonneuve fracture: A case report

Zhao B, Li N, Cao HB, Wang GX, He JQ

4691 Suprasellar cistern tuberculoma presenting as unilateral ocular motility disorder and ptosis: A case report

Zhao BB, Tian C, Fu LJ, Zhang XB

4698 Development of plasma cell dyscrasias in a patient with chronic myeloid leukemia: A case report

Zhang N, Jiang TD, Yi SH

4704 Ovarian growing teratoma syndrome with multiple metastases in the abdominal cavity and liver: A case

ΙX

Hu X, Jia Z, Zhou LX, Kakongoma N

LETTER TO THE EDITOR

4709 Perfectionism and mental health problems: Limitations and directions for future research

Nazari N

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

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Editorial Board Member of World Journal of Clinical Cases, Jamir Pitton Rissardo, MD, Academic Research, Adjunct Associate Professor, Research Associate, Department of Medicine, Federal University of Santa Maria, Santa Maria 97105110, Brazil. jamirrissardo@gmail.com

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CASE REPORT

Computer tomography-guided negative pressure drainage treatment of intrathoracic esophagojejunal anastomotic leakage: A case report

Zhi-Yang Jiang, Guo-Qing Tao, Yan-Fei Zhu

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Zhi-Yang Jiang, Guo-Qing Tao, Yan-Fei Zhu, Department of General Surgery, The Affiliated Wuxi People's Hospital of Nanjing Medical University, Wuxi 214023, Jiangsu Province, China

Corresponding author: Yan-Fei Zhu, MD, PhD, Doctor, Surgeon, Department of General Surgery, The Affiliated Wuxi People's Hospital of Nanjing Medical University, No. 299 Qingyang Road, Wuxi 214023, Jiangsu Province, China. zhuyanfei 2002@163.com

Abstract

BACKGROUND

Esophagojejunal anastomotic leakage (EJAL) is a serious and potentially crucial complication of total gastrectomy and represents the major cause of postoperative death, with a mortality rate of up to 50%. However, treatment remains challenging and controversial. We report here the case of a patient whose intrathoracic EJAL was successfully treated with computer tomography (CT)guided negative pressure drainage treatment.

CASE SUMMARY

A 69-year-old male patient complained of difficulty swallowing within the last six months. He was diagnosed with esophagogastric junction carcinoma, Siewert II, cT3N0M0 stage II. Total gastrectomy and Roux-en-Y esophagojejunostomy were performed. High fever, left chest pain and dyspnea appeared on postoperative day 5, and EJAL was confirmed by CT, gastroscopy and oral blue-dimethylene tests. Conservative treatment measures were applied immediately, including antibiotics, nasojejunal tubes, and repeated thoracic puncture and drainage under ultrasound guidance. However, without sufficient and effective drainage, the thoracic infection and systemic condition continued to deteriorate. With the cooperation of multiple departments, percutaneous CT-guided drainage (24 Fr 7 mm) in the thoracic cavity was successfully placed near the anastomotic leakage. Because of continuous negative pressure suction, the infection symptoms were effectively controlled and the general situation gradually recovered. Subsequent follow-up examination showed that the patient was in good condition.

CONCLUSION

Negative pressure drainage via CT may represent an effective minimally invasive approach to treating intrathoracic EJAL.

Key Words: Esophagojejunal anastomotic leakage; Negative pressure drainage; Computer tomography; Intrathoracic; Infection; Case report

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Core Tip: Treatment for esophagojejunal anastomotic leakage (EJAL) is still challenging. Conservative approaches treat the symptoms but not the root causes, which usually leads to further disease progression. Due to the great trauma associated with surgical treatment, mortality is significantly increased. Endoscopic treatment has a certain failure rate and requires multiple endoscopic operations, which certain patients cannot tolerate. We presented the first intrathoracic EJAL case treated by computed tomography-guided negative pressure drainage, which may represent an effective minimally invasive approach.

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INTRODUCTION

Esophagojejunal anastomotic leakage (EJAL) is a common and serious postoperative complication of total gastrectomy. The reported incidence of EJAL varies between 0.5% and 11.5%, its mortality rate can reach 50%, and it is the major reason for postoperative death after surgery. Intrathoracic anastomotic leakage is associated with significant mortality, and EJAL is associated with high mortality, longer hospital stays and high costs. Moreover, it delays or nullifies the possibility of adjuvant therapy, thereby worsening the patients' quality of life and survival[1-3].

However, current therapies for EJAL are still inefficient. Therapies range from conservative treatment to aggressive surgical treatment, and the optimal therapy is still controversial. Conservative management may predispose patients to further complications, while surgical treatment presents a high mortality rate. Recent endoscopic treatments show narrow applicability and some potential risks. Thus, a standard strategy for treatment has not been established [4-6]. Here, we present a case of intrathoracic EJAL after total gastrectomy for gastric cancer that was successfully treated with computer tomography (CT)-guided negative pressure drainage treatment, which provided sufficient drainage.

CASE PRESENTATION

Chief complaints

A 69-year-old male patient was admitted to Wuxi People's Hospital for difficulty swallowing.

History of present illness

Our patient had progressively worsening dysphagia over a period of 6 mo with an acute deterioration over the preceding 2 wk leading to the admission.

History of past illness

Obvious abnormalities were not observed in prior illnesses.

Personal and family history

There was no special history and personal history. The patient had no known family history of cancer.

Physical examination

There were no abnormalities in cardiopulmonary or abdominal examinations.

4581

Laboratory examinations

Blood analysis did not reveal increased levels of tumor markers.

Imaging examinations

Endoscopy was performed and revealed an ulcerative lesion at the gastric cardia. Enhanced abdominal CT indicated that the tumor might invade the muscularis propria and subserosa without enlarged lymph nodes or distant metastases.

FINAL DIAGNOSIS

The patient was diagnosed with Siewert II esophagogastric junction carcinoma without lymph node metastases. The clinical stage was confirmed as cT3N0M0 stage II (cT1N0M0, 7th edition of UICC TNM Classification of Malignant Tumors). Oral blue-dimethylene test and CT examination were performed when anastomotic leakage was highly suspected after operation.

TREATMENT

The patient received total gastrectomy + D2 lymph node dissection. Intestinal reconstruction was performed in the form of Roux-en-Y esophagojejunostomy. Esophagojejunal anastomosis was performed with an end-to-side circular stapler. The circle was removed after the anastomosis was completed, and manual interrupted sutures were added to the seromuscular layer of the anastomosis. The operation duration was 130 min, and 50 mL of blood loss occurred.

With regular treatments, the clinical manifestation appeared normal within four days after surgery. However, the patient developed fever, left chest pain and dyspnea on postoperative day (POD) 5, including leukocytosis and elevated reactive C protein. We suspected anastomotic leakage and performed a CT examination. CT revealed a large fluid collection containing air around the anastomosis, periesophageal and pulmonary abscesses, bilateral pleural effusion and atelectasis (Figure 1A). Then, percutaneous echo-guided intrathoracic drainage was performed multiple times according to the ultrasound results. Because of its convenient operation, less trauma and good patient tolerance, percutaneous ultrasound puncture has a good drainage effect on postoperative pleural effusion and ascites and early infectious exudate.

On POD 8, an oral blue-dimethylene test indicated drainage from the chest drain that had been placed next to the anastomosis. Subsequent endoscopy revealed dehiscence of the left lateral wall of the esophagojejunal anastomosis (Figure 1B); thus, a nasointestinal tube was placed simultaneously. Bacterial resistance cultures of ascites, bile and pleural drainage pus were performed. The results showed that human Staphylococcus was infected. According to the drug sensitivity results, Piperacillin sodium, tazobactam and imipenem were given gradually. However, his symptoms did not improve. Due to the small diameter of the chest drain and ineffective drainage, the fluid within the thoracic cavity could not be appropriately discharged. Without effective drainage, sustained mediastinal and chest infection led to deterioration of the general condition. To ameliorate this situation, percutaneous CTguided drainage (24 Fr 7 mm) in the thoracic cavity with low-pressure suction was performed near the site of anastomosis leakage (Figure 2A). This drain had a significantly enlarged diameter and provided proactive drainage; thus, the bacterial contamination and local edema were decreased while granulation tissue formation was promoted; hence, the chest infection was controlled gradually. The percutaneous drain was maintained for 18 days. Inflammatory indices and clinical conditions improved, and anastomotic leakage on fluoroscopic examination on POD 38 (Figure 2B).

OUTCOME AND FOLLOW-UP

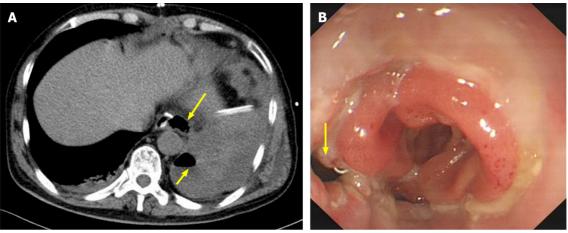
Pathology of the specimen: (esophagogastric junction) adenocarcinoma (poorly differentiated) with neuroendocrine differentiation. The tumor cells had invaded the subserosa. Metastases were not found in the lymph nodes (0/15). Immunohistochemistry: HER2 (+), CGA (partial +), SYN (partial +), SALL4 (-), CDX-2 (partial +), (0/31). The pathological stage was pT3N0M0.

The patient was discharged on POD 48. The subsequent abdominal CT and all laboratory tests showed that the patient was generally in good condition.

DISCUSSION

To our knowledge, this is the first report describing the efficacy of negative pressure drainage via CT for intrathoracic EJAL. This simple clinical procedure was performed safely through CT guidance. Due to sufficient drainage, the proposed method reduced the symptoms of systemic infections, especially chest and mediastinal infections, and promoted the improvement of clinical conditions.

EJAL is considered one of most serious complications after total gastrectomy, and it is associated with high mortality. Despite advances in surgical techniques and equipment, the incidence of EJAL remains unchanged, and its treatment remains a challenge. An appropriate strategy should be selected after evaluating many factors, including the anastomotic leakage size, time since surgery, and patient's general conditions[7-9]. Common interventions for EJAL include conservative treatment, endoscopic treatment, and surgical treatment. Conservative treatment includes fasting, percutaneous drainage, intravenous broad-spectrum antibiotics, nutritional support (enteral or parenteral), and nasojejunal tube



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Figure 1 Postoperative computed tomography and gastroscopy findings of esophagojejunal anastomotic leakage. A: Computed tomography showed a large fluid collection containing air (arrow) around the anastomosis, peri-esophageal and pulmonary abscess; B: Endoscopic view: A dehiscence in the left lateral wall of the esophagojejunal anastomosis (arrow).

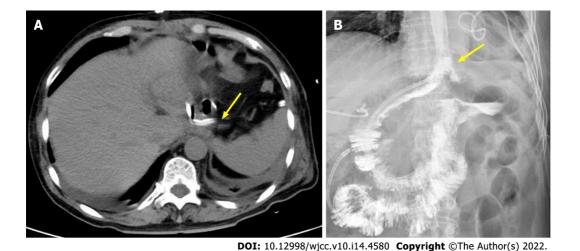


Figure 2 Imaging manifestations after negative pressure drainage via computed tomography. A: Computed tomography showed the drainage tube performed in the thoracic cavity near the leakage of the anastomosis (arrow); B: No anastomotic leakage on fluoroscopic examination (arrow).

> insertion. These strategies are basic interventions that treat the symptoms but not the root cause; thus, they usually lead to worse conditions. Surgical treatment includes drainage, repair, or repeat surgery to repair the anastomosis. Because of obvious surgical trauma and anesthetic stress, such treatment is related to a higher mortality rate than other approaches[10,11]. Endoscopic treatment consists of stenting, clipping, endoscopic suturing, and endoscopic vacuum-assisted closure, all of which present specific advantages and disadvantages. Stenting does not fit at every position, and stent migration is a relevant complication of this procedure. Because hemoclips grasp the mucosal layer alone, clipping is only applied to small defects. In addition, the clip reduces the flexibility of the endoscope, and precise access to the leakage may be more difficult [12-14]. Due to the time and costs involved, endoscopic vacuum-assisted closure should be considered carefully. Furthermore, patients often need to undergo multiple endoscopic procedures and experience anesthesia stress, and they may not be able to tolerate the associated physical conditions[15-17].

> In our case, the patient had a severe chest and mediastinal infection. Once EJAL was suspected clinically, conservative treatment was performed immediately. Adequate and effective drainage is essential for intrathoracic EJAL. Due to the small diameter and passive drainage, it was difficult to achieve continuous, accurate, and adequate drainage under the guidance of percutaneous ultrasound. Based on clinical experience in the treatment of intra-abdominal intestinal leakage or esophageal leakage, a large-diameter pipe with negative pressure suction was placed at the best position near the leakage. Under the multidisciplinary cooperation of thoracic surgery and radiology, this procedure was completed precisely in one attempt.

> > 4583

The patient tolerated the application of local anesthesia to a small skin area well without obvious discomfort. According to the patient's condition changes, the speed and frequency of negative pressure suction were adjusted accordingly. With the help of sufficient drainage, the patient's mediastinal infection and thoracic cavity infection were quickly controlled, and his overall condition gradually improved, thereby promoting the healing of EJAL. He ultimately achieved a good clinical outcome.

The causes of anastomotic leakage may be related to the following factors: tumor infiltration leading to esophageal wall edema and poor healing after anastomosis, anastomotic tension, hypoalbuminemia, etc. More samples are needed to evaluate the effectiveness of this method, and intraoperative gastroscopy is recommended to evaluate the anastomotic condition.

CONCLUSION

EJAL is a dangerous complication, and its treatment remains controversial. Negative pressure drainage via CT may represent an effective minimally invasive approach to treating EJAL that can obviate the need for further life-threatening surgery or long-term conservative management. However, more trials are still required to demonstrate whether it can be recommended as an appropriate treatment for EJAL.

FOOTNOTES

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Country/Territory of origin: China

ORCID number: Zhi-Yang Jiang 0000-0001-7161-469X; Qing-Guo Tao 0000-0003-1419-3440; Fei-Yan Zhu 0000-0001-8732-3125.

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4584



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