World Journal of Clinical Cases

World J Clin Cases 2020 October 6; 8(19): 4280-4687





Contents

Semimonthly Volume 8 Number 19 October 6, 2020

OPINION REVIEW

4280 Role of monoclonal antibody drugs in the treatment of COVID-19

Ucciferri C, Vecchiet J, Falasca K

MINIREVIEWS

- 4286 Review of simulation model for education of point-of-care ultrasound using easy-to-make tools Shin KC, Ha YR, Lee SJ, Ahn JH
- 4303 Liver injury in COVID-19: A minireview

Zhao JN. Fan Y. Wu SD

ORIGINAL ARTICLE

Case Control Study

4311 Transanal minimally invasive surgery vs endoscopic mucosal resection for rectal benign tumors and rectal carcinoids: A retrospective analysis

Shen JM, Zhao JY, Ye T, Gong LF, Wang HP, Chen WJ, Cai YK

4320 Impact of mTOR gene polymorphisms and gene-tea interaction on susceptibility to tuberculosis

Wang M, Ma SJ, Wu XY, Zhang X, Abesig J, Xiao ZH, Huang X, Yan HP, Wang J, Chen MS, Tan HZ

Retrospective Cohort Study

4331 Establishment and validation of a nomogram to predict the risk of ovarian metastasis in gastric cancer: Based on a large cohort

Li SQ, Zhang KC, Li JY, Liang WQ, Gao YH, Qiao Z, Xi HQ, Chen L

Retrospective Study

4342 Predictive factors for early clinical response in community-onset Escherichia coli urinary tract infection and effects of initial antibiotic treatment on early clinical response

Kim YJ, Lee JM, Lee JH

4349 Managing acute appendicitis during the COVID-19 pandemic in Jiaxing, China

Zhou Y, Cen LS

4360 Clinical application of combined detection of SARS-CoV-2-specific antibody and nucleic acid

Meng QB, Peng JJ, Wei X, Yang JY, Li PC, Qu ZW, Xiong YF, Wu GJ, Hu ZM, Yu JC, Su W

Prolonged prothrombin time at admission predicts poor clinical outcome in COVID-19 patients 4370

Wang L, He WB, Yu XM, Hu DL, Jiang H

World Journal of Clinical Cases

Contents

Semimonthly Volume 8 Number 19 October 6, 2020

4380 Percutaneous radiofrequency ablation is superior to hepatic resection in patients with small hepatocellular carcinoma

Zhang YH, Su B, Sun P, Li RM, Peng XC, Cai J

4388 Clinical study on the surgical treatment of atypical Lisfranc joint complex injury

Li X, Jia LS, Li A, Xie X, Cui J, Li GL

4400 Application of medial column classification in treatment of intra-articular calcaneal fractures

Zheng G, Xia F, Yang S, Cui J

Clinical Trials Study

4410 Optimal hang time of enteral formula at standard room temperature and high temperature

Lakananurak N, Nalinthassanai N, Suansawang W, Panarat P

META-ANALYSIS

4416 Meta-analysis reveals an association between acute pancreatitis and the risk of pancreatic cancer

Liu J, Wang Y, Yu Y

SCIENTOMETRICS

4431 Global analysis of daily new COVID-19 cases reveals many static-phase countries including the United States potentially with unstoppable epidemic

Long C, Fu XM, Fu ZF

CASE REPORT

4443 Left atrial appendage aneurysm: A case report

Belov DV, Moskalev VI, Garbuzenko DV, Arefyev NO

4450 Twenty-year survival after iterative surgery for metastatic renal cell carcinoma: A case report and review of literature

De Raffele E, Mirarchi M, Casadei R, Ricci C, Brunocilla E, Minni F

4466 Primary rhabdomyosarcoma: An extremely rare and aggressive variant of male breast cancer

Satală CB, Jung I, Bara TJ, Simu P, Simu I, Vlad M, Szodorai R, Gurzu S

4475 Bladder stones in a closed diverticulum caused by Schistosoma mansoni: A case report

Alkhamees MA

4481 Cutaneous ciliated cyst on the anterior neck in young women: A case report

Kim YH. Lee J

4488 Extremely rare case of successful treatment of metastatic ovarian undifferentiated carcinoma with highdose combination cytotoxic chemotherapy: A case report

II

Kim HB, Lee HJ, Hong R, Park SG

Contents

Semimonthly Volume 8 Number 19 October 6, 2020

4494 Acute amnesia during pregnancy due to bilateral fornix infarction: A case report Cho MJ, Shin DI, Han MK, Yum KS 4499 Ascaris-mimicking common bile duct stone: A case report Choi SY, Jo HE, Lee YN, Lee JE, Lee MH, Lim S, Yi BH 4505 Eight-year follow-up of locally advanced lymphoepithelioma-like carcinoma at upper urinary tract: A case report Yang CH, Weng WC, Lin YS, Huang LH, Lu CH, Hsu CY, Ou YC, Tung MC 4512 Spontaneous resolution of idiopathic intestinal obstruction after pneumonia: A case report Zhang BQ, Dai XY, Ye QY, Chang L, Wang ZW, Li XQ, Li YN 4521 Successful pregnancy after protective hemodialysis for chronic kidney disease: A case report Wang ML, He YD, Yang HX, Chen Q 4527 Rapid remission of refractory synovitis, acne, pustulosis, hyperostosis, and osteitis syndrome in response to the Janus kinase inhibitor tofacitinib: A case report Li B, Li GW, Xue L, Chen YY 4535 Percutaneous fixation of neonatal humeral physeal fracture: A case report and review of the literature Tan W, Wang FH, Yao JH, Wu WP, Li YB, Ji YL, Qian YP 4544 Severe fundus lesions induced by ocular jellyfish stings: A case report Zheng XY, Cheng DJ, Lian LH, Zhang RT, Yu XY 4550 Application of ozonated water for treatment of gastro-thoracic fistula after comprehensive esophageal squamous cell carcinoma therapy: A case report Wu DD, Hao KN, Chen XJ, Li XM, He XF 4558 Germinomas of the basal ganglia and thalamus: Four case reports Huang ZC, Dong Q, Song EP, Chen ZJ, Zhang JH, Hou B, Lu ZQ, Qin F 4565 Gastrointestinal bleeding caused by jejunal angiosarcoma: A case report Hui YY, Zhu LP, Yang B, Zhang ZY, Zhang YJ, Chen X, Wang BM 4572 High expression of squamous cell carcinoma antigen in poorly differentiated adenocarcinoma of the stomach: A case report Wang L, Huang L, Xi L, Zhang SC, Zhang JX Therapy-related acute promyelocytic leukemia with FMS-like tyrosine kinase 3-internal tandem 4579 duplication mutation in solitary bone plasmacytoma: A case report

Metastasis of esophageal squamous cell carcinoma to the thyroid gland with widespread nodal

Ш

4588

Hong LL, Sheng XF, Zhuang HF

involvement: A case report Zhang X, Gu X, Li JG, Hu XJ

World Journal of Clinical Cases

Contents

Semimonthly Volume 8 Number 19 October 6, 2020

4595 Severe hyperlipemia-induced pseudoerythrocytosis - Implication for misdiagnosis and blood transfusion: A case report and literature review

Zhao XC, Ju B, Wei N, Ding J, Meng FJ, Zhao HG

4603 Novel brachytherapy drainage tube loaded with double 125I strands for hilar cholangiocarcinoma: A case report

Lei QY, Jiao DC, Han XW

- 4609 Resorption of upwardly displaced lumbar disk herniation after nonsurgical treatment: A case report Wang Y, Liao SC, Dai GG, Jiang L
- 4615 Primary hepatic myelolipoma: A case report and review of the literature Li KY, Wei AL, Li A
- 4624 Endoscopic palliative resection of a giant 26-cm esophageal tumor: A case report Li Y, Guo LJ, Ma YC, Ye LS, Hu B
- 4633 Solitary hepatic lymphangioma mimicking liver malignancy: A case report and literature review Long X, Zhang L, Cheng Q, Chen Q, Chen XP
- 4644 Intraosseous venous malformation of the maxilla after enucleation of a hemophilic pseudotumor: A case report

Cai X, Yu JJ, Tian H, Shan ZF, Liu XY, Jia J

4652 Intravesically instilled gemcitabine-induced lung injury in a patient with invasive urothelial carcinoma: A case report

Zhou XM, Wu C, Gu X

4660 Bochdalek hernia masquerading as severe acute pancreatitis during the third trimester of pregnancy: A case report

Zou YZ, Yang JP, Zhou XJ, Li K, Li XM, Song CH

- 4667 Localized primary gastric amyloidosis: Three case reports Liu XM, Di LJ, Zhu JX, Wu XL, Li HP, Wu HC, Tuo BG
- 4676 Displacement of peritoneal end of a shunt tube to pleural cavity: A case report Liu J, Guo M
- 4681 Parathyroid adenoma combined with a rib tumor as the primary disease: A case report Han L, Zhu XF

ABOUT COVER

Peer-reviewer of World Journal of Clinical Cases, Prof. Adrián Ángel Inchauspe, obtained his MD in 1986 from La Plata National University (Argentina), where he remained as Professor of Surgery. Study abroad, at the Aachen and Tubingen Universities in Germany in 1991, led to his certification in laparoscopic surgery, and at the Louis Pasteur University in Strasbourg France, led to his being awarded the Argentine National Invention Award in 1998 for his graduate work in tele-surgery. He currently serves as teacher in the Argentine Acupuncture Society, as Invited Foreigner Professor at the China National Academy of Sciences and Hainan Medical University, and as editorial member and reviewer for many internationally renowned journals. (L-Editor: Filipodia)

AIMS AND SCOPE

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.

INDEXING/ABSTRACTING

The WJCC is now indexed in Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition, PubMed, and PubMed Central. The 2020 Edition of Journal Citation Reports® cites the 2019 impact factor (IF) for WJCC as 1.013; IF without journal self cites: 0.991; Ranking: 120 among 165 journals in medicine, general and internal; and Quartile category: Q3.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Yan-Xia Xing, Production Department Director: Yun-Xiaojian Wu; Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Semimonthly

EDITORS-IN-CHIEF

Dennis A Bloomfield, Sandro Vento, Bao-Gan Peng

EDITORIAL BOARD MEMBERS

https://www.wignet.com/2307-8960/editorialboard.htm

PUBLICATION DATE

October 6, 2020

COPYRIGHT

© 2020 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

https://www.wjgnet.com/bpg/gerinfo/204

GUIDELINES FOR ETHICS DOCUMENTS

https://www.wjgnet.com/bpg/GerInfo/287

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

https://www.wjgnet.com/bpg/gerinfo/240

PUBLICATION ETHICS

https://www.wignet.com/bpg/GerInfo/288

PUBLICATION MISCONDUCT

https://www.wjgnet.com/bpg/gerinfo/208

ARTICLE PROCESSING CHARGE

https://www.wjgnet.com/bpg/gerinfo/242

STEPS FOR SUBMITTING MANUSCRIPTS

https://www.wjgnet.com/bpg/GerInfo/239

ONLINE SUBMISSION

https://www.f6publishing.com

© 2020 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com





Submit a Manuscript: https://www.f6publishing.com

World J Clin Cases 2020 October 6; 8(19): 4565-4571

DOI: 10.12998/wjcc.v8.i19.4565

ISSN 2307-8960 (online)

CASE REPORT

Gastrointestinal bleeding caused by jejunal angiosarcoma: A case report

Yang-Yang Hui, Lan-Ping Zhu, Bo Yang, Zi-Yue Zhang, Yu-Jie Zhang, Xin Chen, Bang-Mao Wang

ORCID number: Yang-Yang Hui 0000-0002-0745-6401; Lan-Ping Zhu 0000-0001-7889-6554; Bo Yang 0000-0003-3505-006X; Zi-Yue Zhang 0000-0001-6968-5464; Yu-Jie Zhang 0000-0002-4062-3689; Xin Chen 0000-0003-3024-9053; Bang-Mao Wang 0000-0001-5128-6334.

Author contributions: All authors have contributed significantly to and agree with the content of the manuscript; Hui YY and Zhu LP contributed to patient care, case presentation, and manuscript drafting; Yang B and Zhang ZY contributed to the collection of examination results and follow-up of the patient; Zhang YJ performed the histological examination and interpreted the immunostaining results; Wang BM and Chen X contributed to the conception and revision of the manuscript; all authors issued final approval for the version to be submitted.

Supported by Science and Technology Program of Tianjin, No. 19PTZWHZ00090 and No. 15ZXJZSY00020; National Natural Science Foundation of China, No. 81503019 and No. 81200261; Natural Science Foundation of Tianjin City, No. 18JCZDJC45200.

Informed consent statement:

Written informed consent for publication of this report and any accompanying images was

Yang-Yang Hui, Lan-Ping Zhu, Bo Yang, Xin Chen, Bang-Mao Wang, Department of Gastroenterology and Hepatology, Tianjin Medical University General Hospital, Tianjin 300052, China

Zi-Yue Zhang, Academy of Medical Engineering and Translational Medicine, Tianjin University, Tianjin 300072, China

Yu-Jie Zhang, Department of Pathology, Tianjin Medical University General Hospital, Tianjin 300052, China

Corresponding author: Xin Chen, MD, PhD, Associate Professor, Department of Gastroenterology and Hepatology, Tianjin Medical University General Hospital, No. 154 Anshan Road, Tianjin 300052, China. xchen03@tmu.edu.cn

Abstract

BACKGROUND

Angiosarcoma is a rare disease with a poor prognosis. Its occurrence in the small intestine is low, and gastrointestinal bleeding caused by small intestinal angiosarcoma is unusual.

CASE SUMMARY

Here, we report the case of a 57-year-old man who presented with hematochezia for 1 mo. The patient had a medical history of chronic viral hepatitis B for 15 years. The causes of gastrointestinal bleeding were initially diagnosed as esophagogastric variceal bleeding or portal hypertensive gastropathy before endoscopy. However, after a complicated diagnostic and therapeutic process, including gastroendoscopy, colonoscopy, contrast-enhanced computed tomographic (CT), positron emission computed tomography/CT, capsule endoscopy, and pathological and immunohistochemical examinations, small intestinal angiosarcoma was diagnosed. Arrest of bleeding was achieved after surgical treatment. Furthermore, the patient had lung cancer with bone and adrenal metastases. At the follow-up 10 mo after the operation, the patient was alive.

CONCLUSION

Gastroenterologists should maintain strong vigilance to small intestinal angiosarcoma, which is necessary for the early identification of this infrequent but fatal disease.

obtained from the patient's wife.

Conflict-of-interest statement: The authors declare no conflict of interest

CARE Checklist (2016) statement:

The manuscript was written and revised in accordance with the CARE Checklist -2016.

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is non-commercial. See: htt p://creativecommons.org/licenses /by-nc/4.0/

Manuscript source: Unsolicited manuscript

Received: May 6, 2020 Peer-review started: May 6, 2020 First decision: May 15, 2020 Revised: May 24, 2020 Accepted: August 26, 2020 Article in press: August 26, 2020 Published online: October 6, 2020

P-Reviewer: Fujimori S S-Editor: Ma YJ L-Editor: Wang TQ P-Editor: Wu YXI



Key Words: Small intestine; Angiosarcoma; Gastrointestinal bleeding; Case report; Diagnosis; Prognosis

©The Author(s) 2020. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: Angiosarcoma is a rare disease with a poor prognosis. Its occurrence in the small intestine is low, and gastrointestinal bleeding caused by small intestinal angiosarcoma is unusual. We report a rare case of small intestinal angiosarcoma that caused gastrointestinal hemorrhage in a patient with a history of chronic hepatitis B and lung cancer with bone and adrenal metastases. The diagnosis of a small intestinal angiosarcoma was made by pathological and immunohistochemical examinations and arrest of bleeding was achieved after surgical treatment. Gastroenterologists should maintain strong vigilance to small intestinal angiosarcoma, which is necessary for the early identification of this infrequent but fatal disease.

Citation: Hui YY, Zhu LP, Yang B, Zhang ZY, Zhang YJ, Chen X, Wang BM. Gastrointestinal bleeding caused by jejunal angiosarcoma: A case report. World J Clin Cases 2020; 8(19): 4565-

URL: https://www.wjgnet.com/2307-8960/full/v8/i19/4565.htm

DOI: https://dx.doi.org/10.12998/wjcc.v8.i19.4565

INTRODUCTION

Angiosarcomas are rare, aggressive mesenchymal sarcomas of cells with vascular endothelial features, which account for 1%-2% of all sarcomas that occur in the skin and subcutaneous tissues[1]. Angiosarcomas can be found in any part of the body, primarily in the skin, subcutaneous tissues, breast, heart, and liver, but extremely rare in the gastrointestinal tract especially the small intestine^[2]. The specific etiology of angiosarcoma remain unknown. Several risk factors have been associated with its development, including radiation exposure, vinyl chloride, thorotrast, arsene, and chronic lymphedema^[3]. The clinical signs and symptoms of small intestinal angiosarcoma are nonspecific, including nonspecific abdominal pain, weight loss, anemia, intestinal perforation, nausea/vomiting, intestinal obstruction, or hemorrhage^[4]. A rapid and accurate diagnosis of small intestinal angiosarcoma is difficult due to this variability in clinical presentation. Moreover, the prognosis of small intestinal angiosarcoma is extremely poor due to the limited diagnostic methods for lesions in the small intestine and the late detection. It is rare for patients with intestinal angiosarcomas to live for much more than a year after diagnosis^[5].

In this paper, we report a 57-year-old man who presented with hematochezia for 1 mo due to angiosarcoma of the small intestine; moreover, the patient had a medical history of chronic viral hepatitis B for 15 years.

CASE PRESENTATION

Chief complaints

A 57-year-old man who presented with a 1-mo history of intermittent hematochezia was admitted to our hospital.

History of present illness

The patient complained of intermittent hematochezia since a month ago, once every 2 d. There was no hematemesis, nausea, vomiting, or abdomen pain and no discomfort such as fever, cough, chest tightness, or difficult breathing. He presented to hospital due to severe fatigue and blood routine examination before hospitalization showed a hemoglobin level of 58 g/L with normal white blood cell and platelet counts, MCV level of 70.5 (82.0-100.0) fl, MCH level of 22.0 (27.0-34.0) pg, and MCHC level of 312 (316–354) g/L. Fecal occult blood test was positive.

History of past illness

The patient had a history of chronic viral hepatitis B for 15 years.

Physical examination

The vital signs were stable on admission. The patient's temperature was 36.6 °C. Physical examination revealed pale skin. We observed no ascites, spider angioma, palmar erythema, or splenomegaly.

Laboratory examinations

Initial laboratory investigations showed a hemoglobin level of 60 g/L with normal white blood cell and platelet counts, MCV level of 75.2 (82.0-100.0) fl, MCH level of 23.3 (27.0-34.0) pg, MCHC level of 309 (316-354) g/L, serum ferritin level of 22.7 (21.8-274.6) ng/mL, serum iron level of 15.2 (5.4-28.6) μmol/L, and neuron-specific enolase level of 47.71 (0-16.3) µg/L. Fecal occult blood test was positive. Serum levels of other tumor markers, blood biochemistries, and urine analysis were within the normal range.

Endoscopy examinations

No esophageal varices or lesions were detected on the basis of gastroendoscopy and colonoscopy.

Imaging examinations

His abdominal contrast-enhanced computed tomographic (CT) scan showed segmental wall thickening and eccentric of the small intestine. The small bowel wall was enhanced with multiple lymph nodes in the abdomen and retroperitoneal space in the enhanced arterial phase. Capsule endoscopy was administered, which revealed an ulcerated eminence lesion (Figure 1) that was causing massive overt gastrointestinal bleeding. Positron emission computed tomography/CT revealed a small intestinal malignant tumor, malignant tumor of the lung, and metastatic carcinoma of adrenal glands and bones (Figure 2).

FINAL DIAGNOSIS

The patient was diagnosed with a primary small intestinal angiosarcoma and lung cancer with bone and adrenal metastases.

TREATMENT

After hospitalization, repeated blood transfusions were required due to a continued drop in hemoglobin. Then, an exploratory laparotomy was performed due to persistent gastrointestinal hemorrhage, in which a tumor about 3.4 cm × 6.0 cm was found in the small intestine about 130 cm distal from the Treitz ligament (Figure 3). Partial small intestine resection with end-to-end jejunostomy was performed. Subsequently, arrest of bleeding was achieved. After surgical resection, the patient was managed with comprehensive treatment.

Histopathology

Histopathology (Figure 4) showed some vascular channels which were composed with irregular and anastomosing channels lined by enlarged epithelioid-appearing endothelial cells. Immunohistochemical staining showed positive results for CD30, CD31, CD34, Fli-1, FVIII, VEGR, EMA, CK, and ERG but negative results for SMA, CD117, DOG-1, and S-100. These results were consistent with the findings of epithelioid angiosarcoma.

OUTCOME AND FOLLOW-UP

A diagnostic process and adjuvant chemotherapy were refused by the patient's relatives due to economic difficulties. The patient recovered well without any gastrointestinal bleeding events and was discharged after 8 d. At the follow-up 10 mo after the operation, the patient was alive.

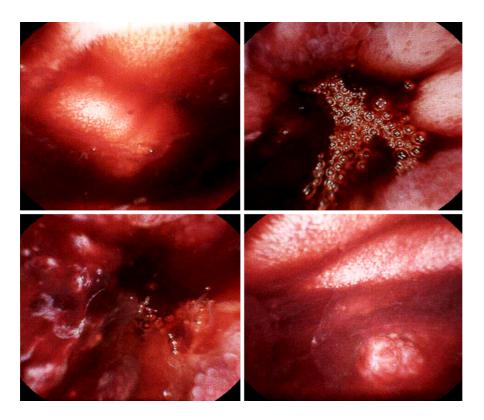


Figure 1 Capsule endoscopy results. The total capsule operation time was 12 h and 59 min. The time of the capsule endoscopy transit in the esophagus, stomach, and small bowel was 2 min 10 s, 11 min 10 s, and 6 h 35 min, respectively. The results show that there was an ulcerated eminence lesion associated with bleeding over periods of 3 h 18 min to 3 h 23 min.

DISCUSSION

Gastrointestinal hemorrhage is a critical condition requiring rapid diagnosis and prompt treatment. A big part of gastrointestinal bleedings occur in the upper or lower gastrointestinal tract; small intestinal bleeding remains a relatively uncommon event, accounting for 5%-10% of all patients with gastrointestinal hemorrhage^[6]. Patients with bleeding from the small intestine generally undergo multiple diagnostic examinations and require multiple hospitalizations and blood transfusions due to the incapability of visualizing the small intestine properly. Therefore, accurately recognizing the cause and site of bleeding is a necessary condition to establish appropriate and effective treatment strategies.

Angiosarcoma is a rare malignant neoplasm of the vascular endothelium with features of the hyperproliferation and wide distribution of tumor cells. Fewer than 70 cases of small intestine angiosarcoma have been reported with only 12 initially presenting as gastrointestinal bleeding^[5,7]. For our patient, it was the first report that primary small intestinal angiosarcoma causes gastrointestinal hemorrhage, who had lung cancer with bone and adrenal metastases.

The etiology of angiosarcoma is still unclear. Based on the current data, several risk factors have been implicated with its pathogenesis, including radiation exposure, postsurgery, vinyl chloride, thorotrast, arsene, and chronic lymphedema. However, the patient did not have any of these potential risk factors.

Small intestinal angiosarcoma is difficult to diagnose and delayed diagnosis often occurs due to the nonspecific clinical manifestations. In this case, capsule endoscopy was administered. The observations revealed bleeding due to an ulcerated eminence lesion in the intestinal wall of the jejunum. In addition, endoscopy, CT, and positron emission computed tomography/CT contributed to the diagnosis of angiosarcoma, but the definitive diagnosis of angiosarcoma was confirmed by pathological and immunohistochemical examinations. The abovementioned histopathological results in our case were in accord with epithelioid angiosarcoma^[8].

At the present situation, adjuvant radiotherapy and/or chemotherapy after surgical resection may be helpful; however, the effect of these treatments on angiosarcoma is still unclear^[5]. Despite all efforts, the prognosis of angiosarcoma is very poor. In general, patients die within several months of diagnosis, and some die shortly after surgery[1,9,10]. Patients surviving for much more than a year after intestinal

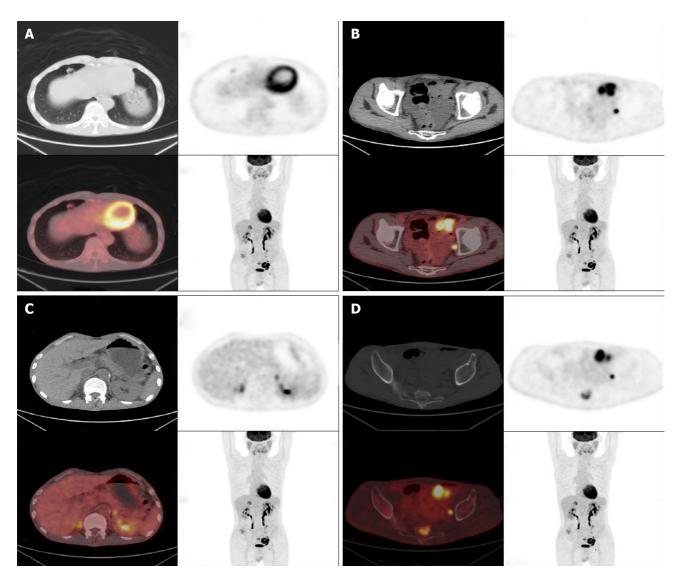


Figure 2 Positron emission computed tomography/ computed tomographic scan. A: A soft tissue nodule located in the right middle lobe of the lung, about 1.3 cm × 1.0 cm in size, with multiple burrs at the edges and abnormal concentration of tracer; B: Partial small intestinal wall thickness, and abnormal concentration of tracer; C: Bilateral nodular hyperplasia of the adrenal glands, and abnormal concentration of tracer, especially on the right; D: The sacral bone with uneven density, and abnormal concentration of tracer.

angiosarcomas diagnosis are rare^[5,11]. Our patient underwent surgery and achieved arrest of bleeding. However, this patient gave up adjuvant radiotherapy and chemotherapy because of financial constraints. Our patient has been alive for 10 mo during the follow-up period.

CONCLUSION

The present study may be the first case of primary small intestinal angiosarcoma leading to gastrointestinal bleeding in a patient who has not only chronic hepatitis B but also lung cancer with bone and adrenal metastases. This case report suggests that gastroenterologists should remain on high alert for small intestinal angiosarcoma, which is indispensable for the early identification of this rare but deadly disease. Moreover, capsule endoscopy is a useful method to detect the bleeding source in the small bowel.



Figure 3 A mass approximately 3.4 cm × 6.0 cm in size was found in the small intestine and partial small bowel (14 cm long) was removed.

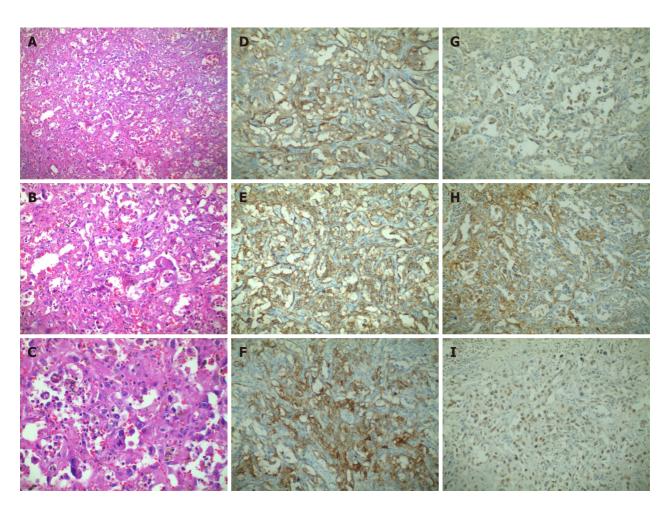


Figure 4 Microscopic examination and immunohistochemistry results. A-C: Tumor blood vessels were abundant, with the tumor cells surrounding them (hematoxylin and eosin staining; × 100, × 200, and × 400, respectively); D-I: The tumor cells were positive for CD30, CD31, CD34, VEGR, Fli-1, and FVIII (Immunohistochemical staining; × 200).

ACKNOWLEDGEMENTS

We thank Professor Qiu-Song Chen and Ning Lu for assisting in the preparation of this manuscript.

REFERENCES

- 1 Zacarias Föhrding L, Macher A, Braunstein S, Knoefel WT, Topp SA. Small intestine bleeding due to multifocal angiosarcoma. World J Gastroenterol 2012; 18: 6494-6500 [PMID: 23197897 DOI: 10.3748/wjg.v18.i44.6494]
- Singla S, Papavasiliou P, Powers B, Gaughan J, von Mehren M, Watson JC, Farma JM. Challenges in the treatment of angiosarcoma: a single institution experience. Am J Surg 2014; 208: 254-259 [PMID: 24811931 DOI: 10.1016/j.amjsurg.2014.01.007]
- Ni Q, Shang D, Peng H, Roy M, Liang G, Bi W, Gao X. Primary angiosarcoma of the small intestine with metastasis to the liver: a case report and review of the literature. World J Surg Oncol 2013; 11: 242 [PMID: 24067058 DOI: 10.1186/1477-7819-11-2421
- 4 Turan M, Karadayi K, Duman M, Ozer H, Arici S, Yildirir C, Koçak O, Sen M. Small bowel tumors in emergency surgery. Ulus Travma Acil Cerrahi Derg 2010; 16: 327-333 [PMID: 20849049 DOI: 10.1186/1757-7241-18-37]
- Nai Q, Ansari M, Liu J, Razjouyan H, Pak S, Tian Y, Khan R, Broder A, Bagchi A, Iyer V, Hamouda D, Islam M, Sen S, Yousif A, Hu M, Lou Y, Duhl J. Primary Small Intestinal Angiosarcoma: Epidemiology, Diagnosis and Treatment. J Clin Med Res 2018; 10: 294-301 [PMID: 29511417 DOI: 10.14740/jocmr3153w]
- Longstreth GF. Epidemiology and outcome of patients hospitalized with acute lower gastrointestinal hemorrhage: a population-based study. Am J Gastroenterol 1997; 92: 419-424 [PMID: 9068461 DOI: 10.1007/s002619900178]
- Li R, Ouyang ZY, Xiao JB, He J, Zhou YW, Zhang GY, Li Q, Gu H, Leng AM, Liu T. Clinical Characteristics and Prognostic Factors of Small Intestine Angiosarcoma: a Retrospective Clinical Analysis of 66 Cases. Cell Physiol Biochem 2017; 44: 817-827 [PMID: 29176321 DOI: 10.1159/000485345]
- Young RJ, Brown NJ, Reed MW, Hughes D, Woll PJ. Angiosarcoma. Lancet Oncol 2010; 11: 983-991 [PMID: 20537949 DOI: 10.1016/S1470-2045(10)70023-1]
- Fraiman G, Ganti AK, Potti A, Mehdi S. Angiosarcoma of the small intestine: a possible role for thalidomide? Med Oncol 2003; 20: 397-402 [PMID: 14716038 DOI: 10.1385/MO:20:4:397]
- 10 Zhai ZZ, Wang L, Zuo XL. A Rare Cause of Gastrointestinal Bleeding in a Patient With a History of Alcoholic Cirrhosis. Gastroenterology 2019; 156: e6-e8 [PMID: 30240671 DOI: 10.1053/j.gastro.2018.09.030]
- 11 Lahat G, Dhuka AR, Hallevi H, Xiao L, Zou C, Smith KD, Phung TL, Pollock RE, Benjamin R, Hunt KK, Lazar AJ, Lev D. Angiosarcoma: clinical and molecular insights. Ann Surg 2010; 251: 1098-1106 [PMID: 20485141 DOI: 10.1097/SLA.0b013e3181dbb75a]



Published by Baishideng Publishing Group Inc

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

Telephone: +1-925-3991568

E-mail: bpgoffice@wjgnet.com

Help Desk: https://www.f6publishing.com/helpdesk

https://www.wjgnet.com

