World Journal of Clinical Cases

World J Clin Cases 2023 May 16; 11(14): 3114-3368





Contents

Thrice Monthly Volume 11 Number 14 May 16, 2023

OPINION REVIEW

3114 Modernising autism spectrum disorder model engineering and treatment via CRISPR-Cas9: A gene reprogramming approach

Sandhu A, Kumar A, Rawat K, Gautam V, Sharma A, Saha L

REVIEW

Burden of disability in type 2 diabetes mellitus and the moderating effects of physical activity 3128

Oyewole OO, Ale AO, Ogunlana MO, Gurayah T

MINIREVIEWS

Postoperative hypoxemia for patients undergoing Stanford type A aortic dissection 3140

Liu HY, Zhang SP, Zhang CX, Gao QY, Liu YY, Ge SL

ORIGINAL ARTICLE

Case Control Study

3148 Impact of extended nursing model after multi-disciplinary treatment on young patient with post-stroke

Xu XY, Pang ZJ, Li MH, Wang K, Song J, Cao Y, Fang M

3158 Changes and significance of serum ubiquitin carboxyl-terminal hydrolase L1 and glial fibrillary acidic protein in patients with glioma

Zhu QH, Wu JK, Hou GL

Retrospective Study

Multitrack and multianchor point screw technique combined with the Wiltse approach for lesion 3167 debridement for lumbar tuberculosis

Yuan YF, Ren ZX, Zhang C, Li GJ, Liu BZ, Li XD, Miao J, Li JF

Clinical features and prognostic factors in 49 patients with follicular lymphoma at a single center: A 3176 retrospective analysis

Wu H, Sun HC, Ouyang GF

3187 Value of optical coherence tomography measurement of macular thickness and optic disc parameters for glaucoma screening in patients with high myopia

Mu H, Li RS, Yin Z, Feng ZL

Observational Study

3195 Comparative study of the clinical efficacy of all-inside and traditional techniques in anterior cruciate ligament reconstruction

An BJ, Wang YT, Zhao Z, Wang MX, Xing GY



World Journal of Clinical Cases

Contents

Thrice Monthly Volume 11 Number 14 May 16, 2023

3204 Positioning and design by computed tomography imaging in neuroendoscopic surgery of patients with chronic subdural hematoma

Wang XJ, Yin YH, Zhang LY, Wang ZF, Sun C, Cui ZM

3211 Evaluation of chronic idiopathic tinnitus and its psychosocial triggers

Hamed SA, Attiah FA, Fawzy M, Azzam M

3224 Intestinal complications in patients with Crohn's disease in the Brazilian public healthcare system between 2011 and 2020

Sassaki LY, Martins AL, Galhardi-Gasparini R, Saad-Hossne R, Ritter AMV, Barreto TB, Marcolino T, Balula B, Yang-Santos C

Randomized Controlled Trial

3238 Effect of non-pharmacological treatment on the full recovery of social functioning in patients with attention deficit hyperactivity disorder

Lv YB, Cheng W, Wang MH, Wang XM, Hu YL, Lv LQ

CASE REPORT

3248 Diagnosis of tuberculous uveitis by the macrogenome of intraocular fluid: A case report and review of the literature

Zhang YK, Guan Y, Zhao J, Wang LF

3256 Intragastric fish bones migrate into the liver: A case report

Dai MG, Zheng JJ, Yang J, Ye B

3261 Primary seminal vesicle adenocarcinoma with a history of seminal vesicle cyst: A case report and review of literature

Yao Y, Liu S, He YL, Luo L, Zhang GM

3267 Immune checkpoint inhibitor therapy-induced autoimmune polyendocrine syndrome type II and Crohn's disease: A case report

Gao MJ, Xu Y, Wang WB

3275 Late-onset mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes syndrome with mitochondrial DNA 3243A>G mutation masquerading as autoimmune encephalitis: A case report

Wang JW, Yuan XB, Chen HF

3282 Metastatic gastric cancer from breast carcinoma presenting with paraneoplastic rheumatic syndrome: A case report

Rech MB, da-Cruz ER, Salgado K, Balbinot RA, Balbinot SS, Soldera J

3288 Novel mutation of SPG4 gene in a Chinese family with hereditary spastic paraplegia: A case report

Wang J, Bu WT, Zhu MJ, Tang JY, Liu XM

3295 Chronic pulmonary mucormycosis caused by rhizopus microsporus mimics lung carcinoma in an immunocompetent adult: A case report

Π

Guo XZ, Gong LH, Wang WX, Yang DS, Zhang BH, Zhou ZT, Yu XH

World Journal of Clinical Cases

Contents

3356

Thrice Monthly Volume 11 Number 14 May 16, 2023

3304 Idiopathic sclerosing mesenteritis presenting with small bowel volvulus in a patient with antiphospholipid syndrome: A case report

Chennavasin P, Gururatsakul M

3311 Neisseria mucosa - A rare cause of peritoneal dialysis-related peritonitis: A case report

Ren JM, Zhang XY, Liu SY

3317 Rectal prolapse in a 30-year-old bladder stone male patient: A case report

Ding HX, Huang JG, Feng C, Tai SC

3323 Successful treatment of veno-arterial extracorporeal membrane oxygenation complicated with left ventricular thrombus by intravenous thrombolysis: A case report

Wang YD, Lin JF, Huang XY, Han XD

Successful remimazolam sedation-epidural block in an older patient with severe chronic obstructive 3330 pulmonary disease: A case report

Yu JJ, Pei HS, Meng Y

De novo mutation of NAXE (APOAIBP)-related early-onset progressive encephalopathy with brain edema 3340 and/or leukoencephalopathy-1: A case report

Ding L, Huang TT, Ying GH, Wang SY, Xu HF, Qian H, Rahman F, Lu XP, Guo H, Zheng G, Zhang G

3351 Iatrogenic atlantoaxial rotatory subluxation after thyroidectomy in a pediatric patient: A case report Hong WJ, Lee JK, Hong JH, Han MS, Lee SS

Bladder metastasis from epidermal growth factor receptor mutant lung cancer: A case report Jin CB, Yang L

3362 Primary rectal mucosa-associated lymphoid tissue lymphoma treated with only endoscopic submucosal dissection: A case report

III

Lee WS, Noh MG, Joo YE

Contents

Thrice Monthly Volume 11 Number 14 May 16, 2023

ABOUT COVER

Editorial Board Member of World Journal of Clinical Cases, Jaw-Yuan Wang, MD, PhD, Professor, Surgical Oncologist, Department of Surgery, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung 807, Taiwan. jawyuanwang@gmail.com

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 WICC is now abstracted and indexed in Science Citation Index Expanded (SCIE, also known as SciSearch®), Journal Citation Reports/Science Edition, Current Contents®/Clinical Medicine, PubMed, PubMed Central, Scopus, Reference Citation Analysis, China National Knowledge Infrastructure, China Science and Technology Journal Database, and Superstar Journals Database. The 2022 Edition of Journal Citation Reports® cites the 2021 impact factor (IF) for WJCC as 1.534; IF without journal self cites: 1.491; 5-year IF: 1.599; Journal Citation Indicator: 0.28; Ranking: 135 among 172 journals in medicine, general and internal; and Quartile category: Q4. The WJCC's CiteScore for 2021 is 1.2 and Scopus CiteScore rank 2021: General Medicine is 443/826.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Hua-Ge Yn, Production Department Director: Xu Guo; Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Thrice Monthly

EDITORS-IN-CHIEF

Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja Hveon Ku

EDITORIAL BOARD MEMBERS

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

PUBLICATION DATE

May 16, 2023

COPYRIGHT

© 2023 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

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

GUIDELINES FOR ETHICS DOCUMENTS

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

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

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

PUBLICATION ETHICS

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

PUBLICATION MISCONDUCT

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

ARTICLE PROCESSING CHARGE

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

STEPS FOR SUBMITTING MANUSCRIPTS

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

ONLINE SUBMISSION

https://www.f6publishing.com

© 2023 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



WJCC https://www.wjgnet.com

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

World J Clin Cases 2023 May 16; 11(14): 3256-3260

DOI: 10.12998/wjcc.v11.i14.3256

ISSN 2307-8960 (online)

CASE REPORT

Intragastric fish bones migrate into the liver: A case report

Mu-Gen Dai, Jing-Jing Zheng, Jie Yang, Bin Ye

Specialty type: Medicine, research and experimental

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): A Grade B (Very good): 0 Grade C (Good): C, C Grade D (Fair): D Grade E (Poor): 0

P-Reviewer: Baryshnikova NV, Russia; Garbuzenko DV, Russia; Krishnan A, United States; Shelat VG, Singapore

Received: October 9, 2022 Peer-review started: October 9,

First decision: January 17, 2023 Revised: January 29, 2023 Accepted: April 7, 2023 Article in press: April 7, 2023 Published online: May 16, 2023



Mu-Gen Dai, Bin Ye, Department of Gastroenterology, The Fifth Affiliated Hospital of Wenzhou Medical University, Lishui 323000, Zhejiang Province, China

Jing-Jing Zheng, Department of Gastrointestinal Surgery, The Fifth Affiliated Hospital of Wenzhou Medical University, Lishui 323000, Zhejiang Province, China

Jie Yang, Department of Infectious Disease, The Fifth Affiliated Hospital of Wenzhou Medical University, Lishui 323000, Zhejiang Province, China

Corresponding author: Bin Ye, MD, PhD, Chief Doctor, Chief Physician, Doctor, Department of Gastroenterology, The Fifth Affiliated Hospital of Wenzhou Medical University, No. 289 Kuocang Road, Lishui 323000, Zhejiang Province, China. 408252097@qq.com

Abstract

BACKGROUND

A foreign body in the digestive tract is a common disease in the clinic. However, it is rare for a foreign body to migrate into the liver. Most patients are diagnosed before or after perforation of the digestive tract. Laparoscopic removal of intrahepatic foreign bodies is an effective treatment method.

CASE SUMMARY

A 55-year-old male patient was admitted to the hospital due to fever for 3 d, in addition to pain and discomfort in the right side of his waist. After admission, abdominal computed tomography showed a foreign body in the liver, and gastroscopy did not indicate obvious erosion or ulcers. The patient then underwent laparoscopic surgery. During the operation, an abscess was seen near the gastric antrum and between the caudate lobes of the liver. It was approximately 30 mm × 31 mm × 23 mm in size. The abscess was cut open, and a fish bone was found inside. The fish bone had penetrated the liver and was successfully removed. It was confirmed that the fish bone migrated from the stomach to the liver.

CONCLUSION

Although intrahepatic foreign bodies are rare, they should be diagnosed and treated as early as possible to avoid serious complications such as intrahepatic abscess, which may lead to liver resection and even life-threatening events.

Key Words: Foreign body; Intrahepatic; Migrate; Stomach; Case report

©The Author(s) 2023. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: Foreign bodies migrating into the liver are rare, but they may lead to liver resection and even life-threatening events. They should be diagnosed and treated as early as possible. We report a patient with a fish bone that migrated from the stomach to the liver and was successfully removed by laparoscopic surgery in the early stage. Early management is a prerequisite to ensure treatment efficacy.

Citation: Dai MG, Zheng JJ, Yang J, Ye B. Intragastric fish bones migrate into the liver: A case report. World J Clin Cases 2023; 11(14): 3256-3260

URL: https://www.wjgnet.com/2307-8960/full/v11/i14/3256.htm

DOI: https://dx.doi.org/10.12998/wjcc.v11.i14.3256

INTRODUCTION

Foreign bodies in the digestive tract are common clinical diseases. Most foreign bodies enter the digestive tract consciously, or the patients are aware of foreign body ingestion. Therefore, this can be removed through endoscopy in a timely manner. Perforation of hollow viscus by a foreign body is rare, representing 1% of cases of accidental foreign body ingestion. A few sharp foreign bodies can cause perforation, bleeding, or obstruction of the digestive tract. However, sharp foreign bodies can enter the digestive tract and pass through the stomach and duodenal mucosa and enter the liver, but this is even less common. We report a patient with a fish bone that migrated from the stomach to the liver and was successfully removed by laparoscopic surgery in the early stage, which avoided liver resection. There was no serious infection, bleeding, or other complications.

CASE PRESENTATION

Chief complaints

A 55-year-old male was hospitalized due to fever for 3 d.

History of present illness

The patient developed fever 3 d previously; the highest temperature was 39 °C. The patient also experienced paroxysmal dull pain and discomfort in the right waist, without chills, shivering, or any other digestive tract and respiratory tract symptoms. He self-administered antipyretic drugs, but his temperature did not significantly decrease. Therefore, he came to the hospital for treatment.

History of past illness

The patient's past medical history included hypertension, kidney stones, and gout but no history of the digestive system or other system diseases.

Personal and family history

The patient's personal and family history revealed no information relevant to the current case.

Physical examination

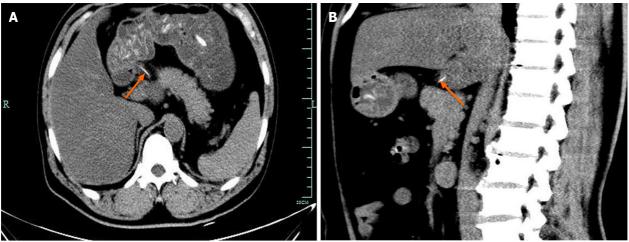
Upon initial evaluation, the patient was 170 cm tall and weighed 65 kg. The patient's temperature was 38.2 °C, heart rate was 90 bpm, and blood pressure (measured with an electronic cuff) was 146/96 mmHg. Heart and lung auscultation was normal, the abdomen was soft, without tenderness, rebound pain, or muscle tension, and percussion pain in the renal area was negative. The remaining examination showed no obvious positive signs.

Laboratory examinations

Laboratory examination results were as follows: C-reactive protein, 153.31 mg/L; white blood cells, $11.93 \times 10^9/L$ (normal: $3.5-9.5 \times 10^9/L$); procalcitonin, 1.04 ng/mL (normal: < 0.05 ng/mL); and glutamic pyruvic transaminase, 57 U/L (normal: 9-50 U/L). All other tests were normal.

Imaging examinations

Abdominal computed tomography (CT) was performed after admission. It indicated a strip-shaped high-density focus in the stomach that had penetrated the caudate lobe of the liver. This was considered to be a foreign body in the stomach that had penetrated the liver (Figure 1). Emergency gastroscopy was performed to determine whether there were foreign bodies in the stomach. No obvious erosion or ulcers of the gastric mucosa was found during gastroscopy (Figure 2).



DOI: 10.12998/wjcc.v11.i14.3256 **Copyright** ©The Author(s) 2023.

Figure 1 Contrast-enhanced computed tomography. A: Gastric perforation caused by a foreign body in the stomach (arrow); B: The foreign body in the stomach had penetrated the liver (arrow).



DOI: 10.12998/wjcc.v11.i14.3256 **Copyright** ©The Author(s) 2023.

Figure 2 No obvious erosion or ulcers of the gastric mucosa was found during gastroscopy.

FINAL DIAGNOSIS

The patient was finally diagnosed with intrahepatic foreign body.

TREATMENT

After receiving routine intravenous antibiotics treatment, his temperature decreased but did not return to normal. Abdominal CT demonstrated that the foreign body in the stomach had migrated into the liver. Emergency gastroscopy was carried out, and no residue of the foreign body was found in the stomach. Therefore, the patient underwent emergency laparoscopic surgery. During the operation, abscess formation was seen in the hepatogastric space, the abscess was cut, and one end of the fish bone was visible. The fish bone was completely removed. Following removal of the abscess, the gastric wall was examined, and no obvious damage was found (Video 1). The operation went smoothly, and the patient recovered.

OUTCOME AND FOLLOW-UP

Following surgery, the patient's temperature gradually decreased to normal, without abdominal pain and other symptoms. He was discharged 1 wk after the operation and was followed up for 2 wk without experiencing obvious discomfort.

DISCUSSION

Chintamani et al[1] reported the world's first case of foreign body in the digestive tract migrating into the liver, causing liver abscess in 1898. Since then only 59 cases have been reported in the literature[1,2]. However, with the development of digestive endoscopy technology [3], most foreign bodies in the digestive tract can be removed. A small number of foreign bodies, such as fish bones, toothpicks, iron wires, etc.[4], are thin and sharp. Most do not cause obvious symptoms when penetrating the gastrointestinal tract, making them difficult to find. The most common site of perforation is the stomach [5]. After penetrating the digestive tract, the foreign body often migrates into the left liver [6]. The patient still has no obvious symptoms at this time. With time, bacteria can undergo microbial replication and dissemination, causing liver abscess. The patient may develop fever, abdominal pain, and other symptoms, including serious infection, liver bleeding, etc., resulting in serious consequences[7].

Although intragastric foreign body migration into the liver is rare[8], it occurs occasionally. Most patients cannot recall the history of foreign body ingestion[3]. Clinicians need to be alert, and diagnosis depends on ultrasound, CT, etc. Ultrasound may be a convenient and radiation-free screening tool that can be used to identify abscesses and possible foreign bodies. On the other hand, CT is the first choice for diagnosis[7] due to its high resolution and accuracy in identifying foreign bodies. It can also be used to assess the depth of penetration and complications.

When it is suspected that a foreign body in the digestive tract has migrated into the liver, it is necessary to conduct timely digestive endoscopy. Some patients may have residues in the digestive tract. Foreign bodies can be removed by digestive endoscopy to avoid traumatic surgery. If necessary, before the foreign body is removed, endoscopic ultrasonography should be performed to determine the relationship between the foreign body and the surrounding blood vessels[9] to avoid massive bleeding and protect the safety of patients. In addition, surgical treatment should be carried out as early as possible for foreign bodies without residues in the gastrointestinal tract[10] rather than after the abscess has liquefied. Timely surgical[11] removal of foreign bodies can reduce the occurrence of complications and preserve the liver.

In the present case, the fish bone transferred from the stomach to the liver, and gastroscopy was performed in a timely manner. No obvious wound was found in the stomach; thus, it could not be removed under endoscopy. Therefore, laparoscopic foreign body removal was selected. Because it was a short amount of time that the foreign body had entered the liver, no obvious damage was found on the gastric wall, hepatogastric space, or liver during the operation. Following removal of the foreign body, complete debridement was conducted to ensure a good treatment effect. Therefore, for liver abscesses of unknown cause, clinicians should consider the possibility of foreign bodies[12], carefully observe the patient's imaging findings, repeatedly ask about relevant medical history regarding ingestion of foreign bodies, carry out endoscopy as soon as possible when there is a high degree of suspicion of foreign bodies in the liver, and perform laparotomy if necessary. Surgery is the most effective method of treatment[13]. Early management is a prerequisite to ensure treatment efficacy.

CONCLUSION

We reported a case of intragastric foreign body that migrated into the liver. Although this is rare, it may cause serious infection and bleeding if not treated in time. This can lead to liver resection and can even be life-threatening, which should stimulate vigilance in clinicians.

FOOTNOTES

Author contributions: Dai MG, Zheng JJ, Yang J, and Ye B designed the research, performed the research, analyzed the data, and wrote the manuscript; all authors read and approved the final manuscript.

Supported by Zhejiang Province Administration Foundation of Traditional Chinese Medicine, No. 2020ZB305.

Informed consent statement: Written informed consent was obtained from the patient for the publication of this case

Conflict-of-interest statement: All authors report having no relevant conflicts of interest for this article.

CARE Checklist (2016) statement: The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to 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 noncommercial. See: https://creativecommons.org/Licenses/by-nc/4.0/

Country/Territory of origin: China

ORCID number: Bin Ye 0000-0001-7533-9963.

S-Editor: Liu GL L-Editor: Filipodia P-Editor: Yu HG

REFERENCES

- Chintamani, Singhal V, Lubhana P, Durkhere R, Bhandari S. Liver abscess secondary to a broken needle migration--a case report. BMC Surg 2003; 3: 8 [PMID: 14531934 DOI: 10.1186/1471-2482-3-8]
- Sobnach S, Castillo F, Blanco Vinent R, Kahn D, Bhyat A. Penetrating cardiac injury following sewing needle ingestion. Heart Lung Circ 2011; 20: 479-481 [PMID: 21315651 DOI: 10.1016/j.hlc.2011.01.006]
- Burkholder R, Samant H. Management of Fish Bone-Induced Liver Abscess with Foreign Body Left In Situ. Case Reports Hepatol 2019; 2019: 9075198 [PMID: 31285930 DOI: 10.1155/2019/9075198]
- Subasinghe D, Jayasinghe R, Kodithuwakku U, Fernandopulle N. Hepatic abscess following foreign body perforation of the colon: A case report. SAGE Open Med Case Rep 2022; $\mathbf{10}$: 2050313X221103357 [PMID: $\mathbf{35707053}$ DOI: 10.1177/2050313X2211033571
- Yan TD, Leung PHY, Zwirewich C, Harris A, Chartier-Plante S. An unusual cause of pericardial effusion: A case report of a hepatic abscess following foreign body migration and duodenal perforation. Int J Surg Case Rep 2022; 93: 106931 [PMID: 35279521 DOI: 10.1016/j.ijscr.2022.106931]
- Chong LW, Sun CK, Wu CC. Successful treatment of liver abscess secondary to foreign body penetration of the alimentary tract: a case report and literature review. World J Gastroenterol 2014; 20: 3703-3711 [PMID: 24707157 DOI: 10.3748/wjg.v20.i13.3703]
- Pan W, Lin LJ, Meng ZW, Cai XR, Chen YL. Hepatic abscess caused by esophageal foreign body misdiagnosed as cystadenocarcinoma by magnetic resonance imaging: A case report. World J Clin Cases 2021; 9: 6781-6788 [PMID: 34447825 DOI: 10.12998/wjcc.v9.i23.6781]
- Sim GG, Sheth SK. Retained Foreign Body Causing a Liver Abscess. Case Rep Emerg Med 2019; 2019: 4259646 [PMID: 31934467 DOI: 10.1155/2019/4259646]
- Zhang F, Xu J, Zhu Y, Shi Y, Wu B, Wang H, Huang C. Endoscopic ultrasonography guided cutting scar of esophageal stricture after endoscopic injection sclerotherapy. BMC Gastroenterol 2022; 22: 343 [PMID: 35840909 DOI: 10.1186/s12876-022-02420-9]
- Beckers G, Magema JP, Poncelet V, Nita T. Successful laparoscopic management of a hepatic abscess caused by a fish bone. Acta Chir Belg 2021; 121: 135-138 [PMID: 31433267 DOI: 10.1080/00015458.2019.1658353]
- Nassif AT, Granella VH, Rucinski T, Cavassin BL, Bassani A, Nassif LT. Laparoscopy treatment of liver abscess secondary to an unusual foreign body (rosemary twig). Autops Case Rep 2021; 11: e2021317 [PMID: 34458185 DOI: 10.4322/acr.2021.317]
- Dangoisse C, Laterre PF. Tracking the foreign body, a rare cause of hepatic abscess. BMC Gastroenterol 2014; 14: 167 [PMID: 25262330 DOI: 10.1186/1471-230X-14-167]
- Costa Almeida CE, Caroço T, Silva M, Baião JM, Guimarães A, Ângelo M. Hepatic resection due to a fish bone. Int J Surg Case Rep 2021; 81: 105722 [PMID: 33714000 DOI: 10.1016/j.ijscr.2021.105722]

3260



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

