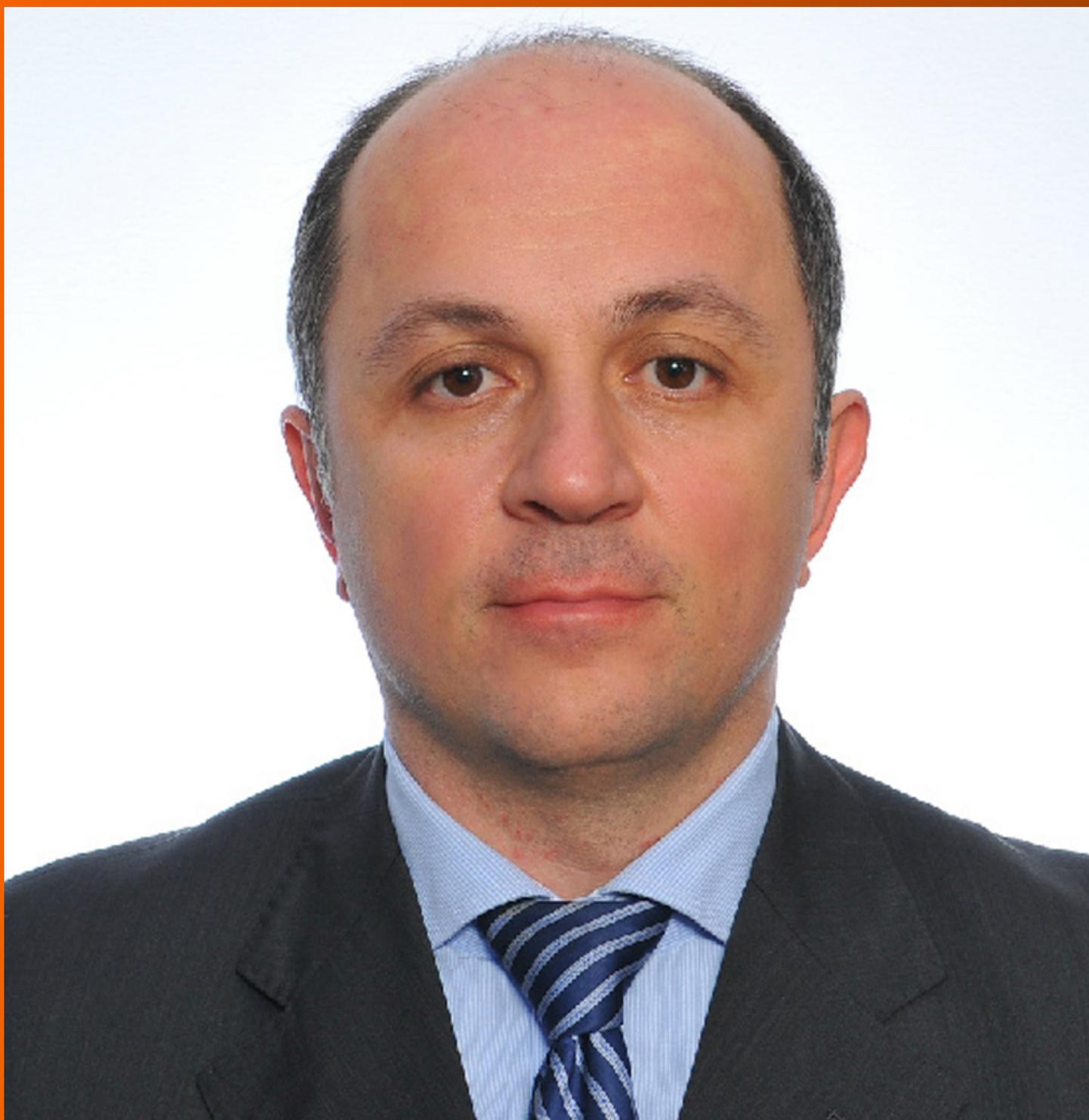


World Journal of *Clinical Cases*

World J Clin Cases 2019 November 26; 7(22): 3683-3914



Contents

Semimonthly Volume 7 Number 22 November 26, 2019

REVIEW

- 3683 Colorectal cancer: The epigenetic role of microbiome
Sabit H, Cevik E, Tombuloglu H

ORIGINAL ARTICLE**Case Control Study**

- 3698 Human podocyte injury in the early course of hypertensive renal injury
Sun D, Wang JJ, Wang W, Wang J, Wang LN, Yao L, Sun YH, Li ZL

Retrospective Cohort Study

- 3711 Relationship between acute hypercarbia and hyperkalaemia during surgery
Weinberg L, Russell A, Mackley L, Dunnachie C, Meyerov J, Tan C, Li M, Hu R, Karalapillai D

Retrospective Study

- 3718 Surgical treatment of patients with severe non-flail chest rib fractures
Zhang JP, Sun L, Li WQ, Wang YY, Li XZ, Liu Y

- 3728 Super-selective arterial embolization in the control of acute lower gastrointestinal hemorrhage
Lv LS, Gu JT

- 3734 End-stage liver disease score and future liver remnant volume predict post-hepatectomy liver failure in hepatocellular carcinoma
Kong FH, Miao XY, Zou H, Xiong L, Wen Y, Chen B, Liu X, Zhou JJ

Observational Study

- 3742 Treatment of hemorrhoids: A survey of surgical practice in Australia and New Zealand
Fowler GE, Siddiqui J, Zahid A, Young CJ

- 3751 Relationship between homocysteine level and prognosis of elderly patients with acute ischemic stroke treated by thrombolysis with recombinant tissue plasminogen activator
Li J, Zhou F, Wu FX

CASE REPORT

- 3757 Cystic fibrosis transmembrane conductance regulator functional evaluations in a G542X+/- IVS8Tn:T7/9 patient with acute recurrent pancreatitis
Caldrer S, Bergamini G, Sandri A, Vercellone S, Rodella L, Cerofolini A, Tomba F, Catalano F, Frulloni L, Buffelli M, Tridello G, de Jonge H, Assael BM, Sorio C, Melotti P

- 3765** Ulcerated intussuscepted jejunal lipoma-uncommon cause of obscure gastrointestinal bleeding: A case report
Cuciureanu T, Huiban L, Chiriac S, Singeap AM, Danciu M, Mihai F, Stanciu C, Trifan A, Vlad N
- 3772** Ultrasonographic evaluation of the effect of extracorporeal shock wave therapy on calcific tendinopathy of the rectus femoris tendon: A case report
Lee CH, Oh MK, Yoo JI
- 3778** Contrast-enhanced computed tomography findings of a huge perianal epidermoid cyst: A case report
Sun PM, Yang HM, Zhao Y, Yang JW, Yan HF, Liu JX, Sun HW, Cui Y
- 3784** Iatrogenic crystalline lens injury during intravitreal injection of triamcinolone acetonide: A report of two cases
Su J, Zheng LJ, Liu XQ
- 3792** Sagliker syndrome: A case report of a rare manifestation of uncontrolled secondary hyperparathyroidism in chronic renal failure
Yu Y, Zhu CF, Fu X, Xu H
- 3800** Pre-eclampsia with new-onset systemic lupus erythematosus during pregnancy: A case report
Huang PZ, Du PY, Han C, Xia J, Wang C, Li J, Xue FX
- 3807** Unilateral congenital scrotal agenesis with ipsilateral cryptorchidism: A case report
Fang Y, Lin J, Wang WW, Qiu J, Xie Y, Sang LP, Mo JC, Luo JH, Wei JH
- 3812** Metastatic infection caused by hypervirulent *Klebsiella pneumonia* and co-infection with *Cryptococcus meningitis*: A case report
Shi YF, Wang YK, Wang YH, Liu H, Shi XH, Li XJ, Wu BQ
- 3821** Allergic fungal rhinosinusitis accompanied by allergic bronchopulmonary aspergillosis: A case report and literature review
Cheng KJ, Zhou ML, Liu YC, Zhou SH
- 3832** Invasive aspergillosis presenting as hilar masses with stenosis of bronchus: A case report
Su SS, Zhou Y, Xu HY, Zhou LP, Chen CS, Li YP
- 3838** Retropharyngeal abscess presenting as acute airway obstruction in a 66-year-old woman: A case report
Lin J, Wu XM, Feng JX, Chen MF
- 3844** Thoracoscopic segmentectomy assisted by three-dimensional computed tomography bronchography and angiography for lung cancer in a patient living with situs inversus totalis: A case report
Wu YJ, Bao Y, Wang YL
- 3851** Single-lung transplantation for pulmonary alveolar microlithiasis: A case report
Ren XY, Fang XM, Chen JY, Ding H, Wang Y, Lu Q, Ming JL, Zhou LJ, Chen HW

- 3859** Respiratory failure and macrophage activation syndrome as an onset of systemic lupus erythematosus: A case report
Sun J, Wang JW, Wang R, Zhang H, Sun J
- 3866** Diagnosis of gastric duplication cyst by positron emission tomography/computed tomography: A case report
Hu YB, Gui HW
- 3872** Peritoneal cancer after bilateral mastectomy, hysterectomy, and bilateral salpingo-oophorectomy with a poor prognosis: A case report and review of the literature
Ma YN, Bu HL, Jin CJ, Wang X, Zhang YZ, Zhang H
- 3881** Apatinib for treatment of a pseudomyxoma peritonei patient after surgical treatment and hyperthermic intraperitoneal chemotherapy: A case report
Huang R, Shi XL, Wang YF, Yang F, Wang TT, Peng CX
- 3887** Novel frameshift mutation causes early termination of the thyroxine-binding globulin protein and complete thyroxine-binding globulin deficiency in a Chinese family: A case report
Dang PP, Xiao WW, Shan ZY, Xi Y, Wang RR, Yu XH, Teng WP, Teng XC
- 3895** Diffuse large B-cell lymphoma arising from follicular lymphoma with warthin's tumor of the parotid gland - immunophenotypic and genetic features: A case report
Wang CS, Chu X, Yang D, Ren L, Meng NL, Lv XX, Yun T, Cao YS
- 3904** Exogenous endophthalmitis caused by *Enterococcus casseliflavus*: A case report
Bao QD, Liu TX, Xie M, Tian X

LETTER TO THE EDITOR

- 3912** Microbial transglutaminase should be considered as an environmental inducer of celiac disease
Lerner A, Matthias T

ABOUT COVER

Editorial Board Member of *World Journal of Clinical Cases*, Ridvan Hamid Alimehmeti, MD, PhD, Associate Professor, Lecturer, Surgeon, Department of Neuroscience, University of Medicine, Tirana 1000, Albania

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 PubMed, PubMed Central, Science Citation Index Expanded (also known as SciSearch®), and Journal Citation Reports/Science Edition. The 2019 Edition of Journal Citation Reports cites the 2018 impact factor for *WJCC* as 1.153 (5-year impact factor: N/A), ranking *WJCC* as 99 among 160 journals in Medicine, General and Internal (quartile in category Q3).

RESPONSIBLE EDITORS FOR THIS ISSUE

Responsible Electronic Editor: *Ji-Hong Liu*

Proofing Production Department Director: *Yun-Xiaojuan Wu*

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Semimonthly

EDITORS-IN-CHIEF

Dennis A Bloomfield, Bao-Gan Peng, Sandro Vento

EDITORIAL BOARD MEMBERS

<https://www.wjnet.com/2307-8960/editorialboard.htm>

EDITORIAL OFFICE

Jin-Lei Wang, Director

PUBLICATION DATE

November 26, 2019

COPYRIGHT

© 2019 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

<https://www.wjnet.com/bpg/gerinfo/204>

GUIDELINES FOR ETHICS DOCUMENTS

<https://www.wjnet.com/bpg/GerInfo/287>

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

<https://www.wjnet.com/bpg/gerinfo/240>

PUBLICATION MISCONDUCT

<https://www.wjnet.com/bpg/gerinfo/208>

ARTICLE PROCESSING CHARGE

<https://www.wjnet.com/bpg/gerinfo/242>

STEPS FOR SUBMITTING MANUSCRIPTS

<https://www.wjnet.com/bpg/GerInfo/239>

ONLINE SUBMISSION

<https://www.f6publishing.com>

Contrast-enhanced computed tomography findings of a huge perianal epidermoid cyst: A case report

Pei-Ming Sun, He-Ming Yang, Yan Zhao, Jian-Wu Yang, Hong-Feng Yan, Jing-Xin Liu, Hong-Wei Sun, Yan Cui

ORCID number: Pei-Ming Sun (0000-0003-1162-5412); He-Ming Yang (0000-0002-2867-6809); Yan Zhao (0000-0002-7192-8338); Jian-Wu Yang (0000-0002-4021-923X); Hong-Feng Yan (0000-0003-2087-4197); Jing-Xin Liu (0000-0003-0693-5459); Hong-Wei Sun (0000-0003-4156-8340); Yan Cui (0000-0002-6833-5611).

Author contributions: Sun PM and Sun HW were the patient's surgeons, reviewed the literature, and contributed to manuscript drafting; Yan HF, Liu JX, and Yang JW reviewed the literature and contributed to manuscript drafting; Yang HM, Cui Y, and Zhao Y were responsible for the revision of the manuscript for important intellectual content; all authors issued final approval for the version to be submitted.

Informed consent statement: Written informed consent was obtained from the patient for publication of this report and any accompanying images.

Conflict-of-interest statement: There is no conflict of interest that should be disclosed.

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 which was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative

Pei-Ming Sun, He-Ming Yang, Yan Zhao, Jian-Wu Yang, Hong-Feng Yan, Jing-Xin Liu, Hong-Wei Sun, Yan Cui, Department of General Surgery, PLA Strategic Support Force Characteristic Medical Center, Beijing 100101, China

Corresponding author: Hong-Wei Sun, MD, PhD, Department of General Surgery, PLA Strategic Support Force Characteristic Medical Center, 9 Anxiangbeili, Chaoyang District, Beijing 100101, China. shwsport@yeah.net

Telephone: +86-10-66356729

Fax: +86-10-66356729

Abstract

BACKGROUND

Epidermoid cysts can be found at any location in the human body. However, perianal epidermoid cysts are extremely rare and only a few cases have been reported. As far as we know, there is no special literature on the value of contrast-enhanced computed tomography (CT) for the diagnosis of perianal epidermoid cysts.

CASE SUMMARY

A 60-year-old male patient presented to the department of general surgery of PLA Strategic Support Force Characteristic Medical Center with the chief complaint of a mass in the perianal region gradually expanding for more than 30 years and perianal discomfort upon sitting for a preceding period of 2 mo. Physical examination revealed a painless mass in the left perianal region. Contrast-enhanced CT was used for preoperative diagnosis. The patient was treated by total mass excision under epidural anesthesia. Postoperative pathological examination revealed the presence of a perianal epidermoid cyst. The patient showed a satisfactory recovery during the 6-month follow-up period.

CONCLUSION

Contrast-enhanced CT may be a beneficial, useful, and convenient approach for assistance for preoperative diagnosis and surgical decision-making for patients with perianal epidermoid cysts.

Key words: Epidermoid cyst; Perianal; Contrast-enhanced computed tomography; Case report; General surgery; Preoperative diagnosis

©The Author(s) 2019. Published by Baishideng Publishing Group Inc. All rights reserved.

Commons Attribution Non Commercial (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: <http://creativecommons.org/licenses/by-nc/4.0/>

Manuscript source: Unsolicited manuscript

Received: September 12, 2019

Peer-review started: September 12, 2019

First decision: September 23, 2019

Revised: October 10, 2019

Accepted: October 15, 2019

Article in press: October 15, 2019

Published online: November 26, 2019

P-Reviewer: Gonoi W, Sersar SI, Zavras N

S-Editor: Dou Y

L-Editor: Wang TQ

E-Editor: Liu MY



Core tip: Perianal epidermoid cysts are extremely rare and there is no special literature on the value of contrast-enhanced computed tomography (CT) for the diagnosis of perianal epidermoid cysts. This case report describes the value of contrast-enhanced CT for the diagnosis and surgical decision-making of patients with perianal epidermoid cysts and highlights that it may be a beneficial, useful, and convenient approach for these patients.

Citation: Sun PM, Yang HM, Zhao Y, Yang JW, Yan HF, Liu JX, Sun HW, Cui Y. Contrast-enhanced computed tomography findings of a huge perianal epidermoid cyst: A case report. *World J Clin Cases* 2019; 7(22): 3778-3783

URL: <https://www.wjgnet.com/2307-8960/full/v7/i22/3778.htm>

DOI: <https://dx.doi.org/10.12998/wjcc.v7.i22.3778>

INTRODUCTION

Epidermoid cysts usually are benign cysts that are commonly found in the skin, including on the face, scalp, neck, and trunk^[1]. However, perianal epidermoid cysts are very rare and a few cases have been reported on^[2]. Perianal epidermoid cysts do not exhibit any unique clinical symptoms during the early stages and may be misdiagnosed as other anal diseases, due to pain or other symptoms^[3]. Since a perianal epidermoid cyst may get infected and inflamed, surgical resection is recommended. Preoperative diagnosis is very important for the selection of a suitable surgical method. Although there is some literature on the use of ultrasound and magnetic resonance imaging for the location of perianal/presacral epidermoid cysts^[2,4,5], the value of the use of contrast-enhanced computed tomography (CT) for perianal epidermoid cysts is not reported. Here we present a case of perianal epidermoid cyst, for which contrast-enhanced CT was successfully used for preoperative diagnosis and surgical decision-making.

CASE PRESENTATION

Chief complaints

A 60-year-old male patient was admitted to the department of general surgery of PLA Strategic Support Force Characteristic Medical Center, with a complaint of a mass gradually expanding for more than 30 years and perianal discomfort upon sitting, which had persisted for 2 mo.

History of present illness

The mass was painless and grew slowly. There were no signs of redness, swelling, or heat of local skin and no anal swelling, itching, bearing down, or difficulty during defecation.

History of past illness

He had a history of hypertension for over 10 years but had no other previous medical issues.

Personal and family history

The patient had no history of smoking, alcohol abuse, or illicit drug use and lacked a family history of other diseases.

Physical examination upon admission

Physical examination revealed a painless, mobile mass, with a clear margin, at 3 to 6 points of the lithotomy position, 2 cm over the anal verge. The top of the mass was exposed to the skin, measuring 6 cm, and the bottom of the mass could not be palpated clearly. Preoperative digital anal examination and anoscopy showed a normal rectal mucosa and the mass could be palpated through the left sidewall of the rectum.

Laboratory examinations

Laboratory tests, including tumor markers, were normal.

Imaging examinations

Ultrasound showed a hypoechoic mass, measuring 9.2 cm × 3.7 cm, with a clear margin, regular morphology, and no obvious blood flow (Figure 1). Contrast-enhanced CT revealed a cystic low-density mass with a smooth edge. The upper right edge of the mass was very close to the anal canal (Figure 2D and 2E). The wall of the cyst was not enhanced in the arterial phase, venous phase, and delayed phase and there was no blood vessel in and around the mass (Figure 2A, 2B and 2C), while the CT density was 40 HU.

FINAL DIAGNOSIS

The pathologic diagnosis showed an epidermoid cyst. The specimen was a greyish-red cystic mass, which contained greyish-white substance in the capsule. Microscopic and histopathological examinations revealed that the cyst wall was 40-60 μm thick and lined with stratified squamous epithelia, which had distinct granular layers. The cavity of the cyst was filled with layered uniform red-stained keratin (Figure 3).

TREATMENT

The patient was taken to the operating room for mass excision as the preoperative diagnosis was a perianal mass. The surgical exploration showed a greyish-red subcutaneous mass with an intact capsule, tough and flexible, which measured about 10 cm. The mass was completely resected after being carefully separated from surrounding tissues. Digital anal examination and anoscopy showed that there was no fistula between the surgical area and the anal canal, after the resection.

OUTCOME AND FOLLOW-UP

The patient was discharged on postoperative day 5 without complications and showed a satisfactory recovery, as observed during the 6-mo follow-up period.

DISCUSSION

Epidermoid cysts are extremely common and can occur in any hair-containing area, and are more frequently found in men than in women (2:1), within the age range of 30-40 years^[6]. This disease is caused by the ectodermal cells that remain in tissues from embryonic development developing into cysts, as a result of inflammation around a pilosebaceous follicle, or deep implantation of the epidermis by a blunt or penetrating injury or surgery^[3]. The wall of the epidermoid cyst is mainly composed of stratified squamous epithelium^[7], and does not contain a skin attachment structure in the dermis, and can become weak when the cyst extends. The cysts are generally filled with keratin, scales, fat, and cholesterol. Usually the cysts are slow-growing and asymptomatic. Pain and tenderness may be felt if the cysts are infected and inflamed, or develop into a malignancy, which is rare^[1].

Perianal epidermoid cysts are difficult to diagnose during the early stages, because there are no unique clinical symptoms. The symptoms of the cysts vary according to their size, location, and infected status. When increasing in size, the epidermoid cyst will oppress the anal sphincter or/and rectum, inducing perianal discomfort^[2], such as in this case. If the cysts are infected and inflamed, symptoms including the pain and tenderness of the perianal region may be reported. When the cysts rupture after infection, a purulent secretion can be found in the perianal region. Therefore, perianal epidermoid cysts are often misdiagnosed as perianal abscesses and/or anal fistulas and undergo unsuitable operation, leading to postoperative recurrence.

The preoperative diagnosis of perianal epidermoid cysts is very important for the selection of a suitable surgical method and may prevent intraoperative and postoperative complications. In our case, contrast-enhanced CT was used for preoperative diagnosis and surgical decision-making. Contrast-enhanced CT has the advantages of high resolution, fast scanning speed, and competitive price, and it can clearly indicate the size, location, density, and margin of the epidermoid cysts, as well as its relationship with surrounding tissues^[8]. Contrast-enhanced CT is significantly valuable in showing the blood supply of the cysts. A typical imaging feature of perianal epidermoid cysts is a subcutaneous low density cystic mass, round or elliptical, with a smooth edge, being either a single cyst or polycystic. The density of cysts differs according to keratin and cholesterol content, as well as proportion,

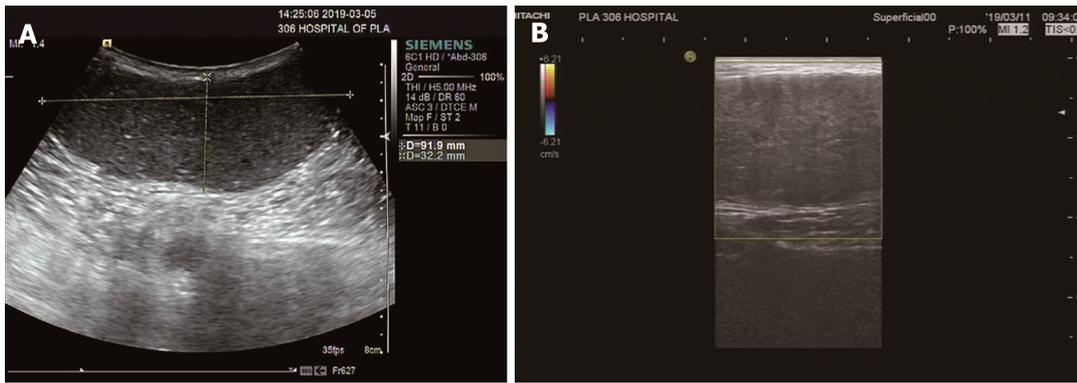


Figure 1 Ultrasound images. A: Ultrasound image showing a hypoechoic mass, with the maximum range of 9.2 cm × 3.7 cm, clear margins, and regular morphology; B: Color Doppler flow image indicating that there was no obvious blood flow in the mass.

calcification, and bleeding^[9]. The wall of the cysts is thin and no or slight enhancement is seen in contrast-enhanced CT examination. When the cysts are infected and form granulomatous structures, rim enhancement may be present around the mass^[10]. Furthermore, contrast-enhanced CT can clearly show the location of perianal epidermoid cysts, and the relationship between the cyst and the anal sphincter and rectum, as well as the blood supply to the cyst or around the cyst. This imaging information is of significant value for guiding the surgery. As in our case, contrast-enhanced CT clearly shows the texture, density, edge, and the wall of the mass with no enhancement and whether there are blood vessels in and around the mass. The upper right edge of the mass can be very close to the anal canal, suggesting that surgery should be carried out while being very careful of this area to avoid damage of the anal sphincter and rectum.

Wide surgical resection is recommended for the treatment of epidermoid cysts^[11], because there is some risk of recurrence. Suitable first surgical treatment is very important for epidermoid cysts because an incorrect or insufficient treatment could compromise the chances of complete surgical excision and increase the risk of recurrence, as well as cause repeated operations, prolonged morbidity, and serious complications^[7]. Surgery should remove the cysts completely and avoid rupture and residue of the cystic wall, as much as possible. For perianal epidermoid cysts, it is important to explore the relationship between the cysts and the anus during surgery to avoid damage to the anal sphincter and rectum. The prognosis and outcome of these lesions are excellent, with a postoperative recurrence rate of only 3%^[12], which generally occurs locally.

CONCLUSION

Contrast-enhanced CT examination could show the morphology, location, and blood supply of the perianal epidermoid cysts and would be a beneficial, useful, and convenient approach for preoperative diagnosis and surgical decision-making.

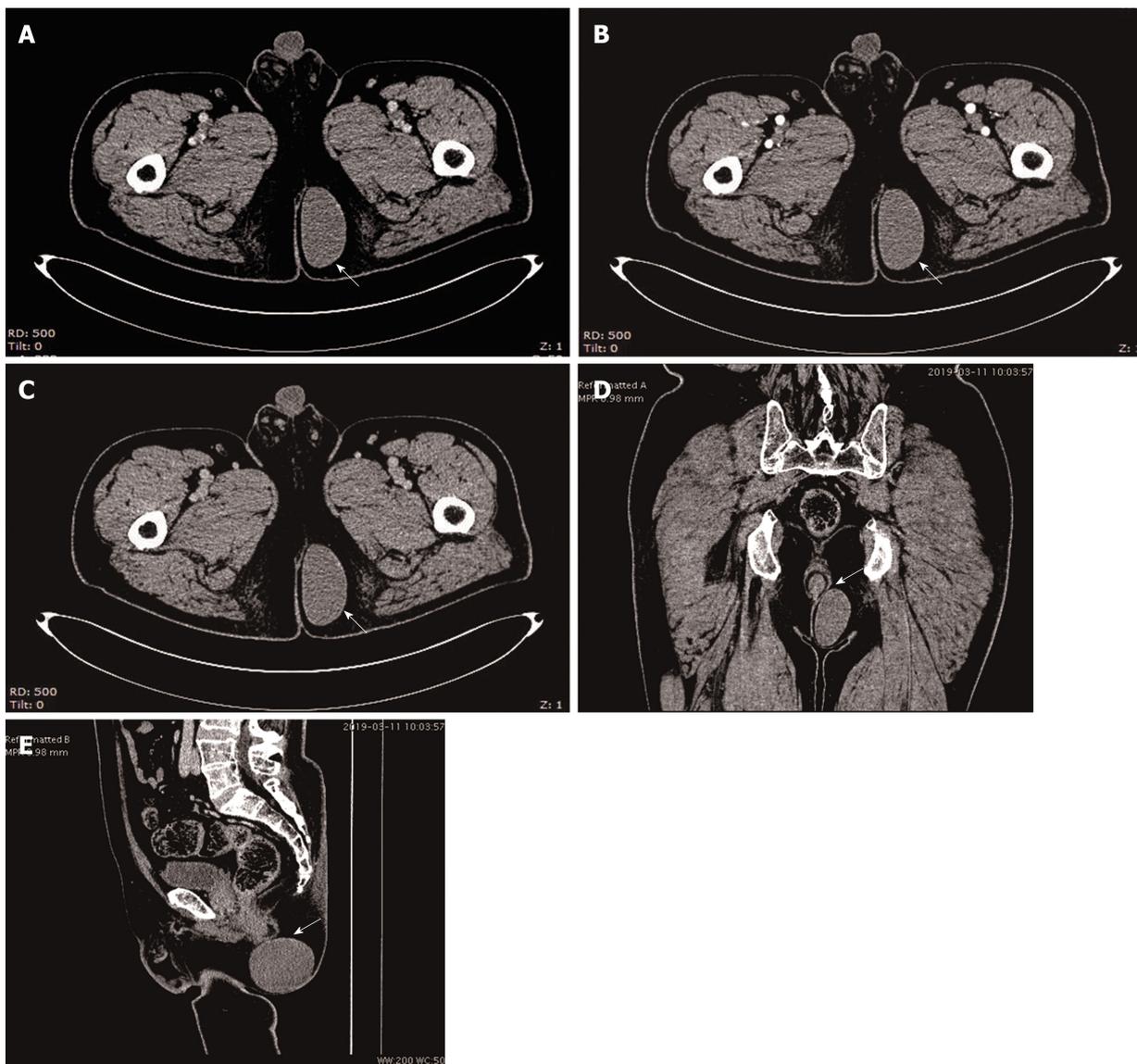


Figure 2 Contrast-enhanced computed tomography images. A-C: Contrast-enhanced computed tomography images revealing a cystic low density shadow with a smooth edge. The wall of the cyst was not enhanced and there were no blood vessels in and around the mass in the venous phase, arterial phase, and delayed phase; D and E: The upper right edge of the mass was very close to the anal canal.

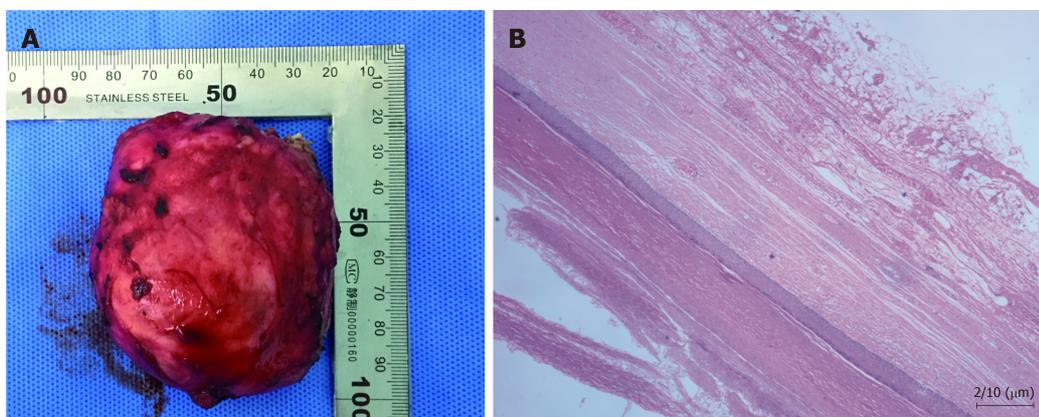


Figure 3 Histopathological findings. A: The specimen was found to be a greyish-red cystic mass; B: The cyst wall was 40-60 µm thick and was lined with stratified squamous epithelium, which had distinct granular layers (H&E staining, ×200). The cavity of the cyst was filled with layered uniform red-stained keratin.

ACKNOWLEDGEMENTS

We thank our coworkers of the departments of radiology, laboratory, electrocardiogram, and operating room for their invaluable technical help.

REFERENCES

- 1 **Faltaous AA**, Leigh EC, Ray P, Wolbert TT. A Rare Transformation of Epidermoid Cyst into Squamous Cell Carcinoma: A Case Report with Literature Review. *Am J Case Rep* 2019; **20**: 1141-1143 [PMID: 31375657 DOI: 10.12659/AJCR.912828]
- 2 **Nicolay S**, De Schepper A, Pouillon M. Epidermal inclusion cyst of the perianal region. *JBR-BTR* 2014; **97**: 166-167 [PMID: 25223130]
- 3 **Sritharan K**, Ghani Y, Thompson H. An unusual encounter of an epidermoid cyst. *BMJ Case Rep* 2014; 2014 [PMID: 24825558 DOI: 10.1136/bcr-2014-204186]
- 4 **Turkay R**, Caymaz I, Yildiz B, Livaoglu A, Turkey B, Bakir B. A rare case of epidermoid cyst of perineum: Diffusion-weighted MRI and ultrasonography findings. *Radiol Case Rep* 2015; **8**: 593 [PMID: 27330608 DOI: 10.2484/rcr.v8i1.593]
- 5 **Halefoglu AM**, Sen EY. Precoccygeal epidermal inclusion cyst: ultrasound and MR imaging features. *JBR-BTR* 2012; **95**: 294-296 [PMID: 23198367]
- 6 **Saeed U**, Mazhar N. Epidermoid cyst of perineum: a rare case in a young female. *BJR Case Rep* 2016; **3**: 20150352 [PMID: 30363255 DOI: 10.1259/bjrcr.20150352]
- 7 **Jain V**, Misra S, Tiwari S, Rahul K, Jain H. Recurrent Perianal Sinus in Young Girl Due To Pre-sacral Epidermoid Cyst. *Ann Med Health Sci Res* 2013; **3**: 458-460 [PMID: 24116335 DOI: 10.4103/2141-9248.117935]
- 8 **Cianci P**, Tartaglia N, Altamura A, Fersini A, Vovola F, Sanguedolce F, Ambrosi A, Neri V. A recurrent epidermoid cyst of the spleen: report of a case and literature review. *World J Surg Oncol* 2016; **14**: 98 [PMID: 27036391 DOI: 10.1186/s12957-016-0857-x]
- 9 **Dahan H**, Arrivé L, Wendum D, Docou le Pointe H, Djouhri H, Tubiana JM. Retrorectal developmental cysts in adults: clinical and radiologic-histopathologic review, differential diagnosis, and treatment. *Radiographics* 2001; **21**: 575-584 [PMID: 11353107 DOI: 10.1148/radiographics.21.3.g01ma13575]
- 10 **Riojas CM**, Hahn CD, Johnson EK. Presacral epidermoid cyst in a male: a case report and literature review. *J Surg Educ* 2010; **67**: 227-232 [PMID: 20816358 DOI: 10.1016/j.jsurg.2010.06.005]
- 11 **Kesici U**, Sakman G, Mataraci E. Retrorectal/Presacral epidermoid cyst: report of a case. *Eurasian J Med* 2013; **45**: 207-210 [PMID: 25610280 DOI: 10.5152/eajm.2013.40]
- 12 **Houdek MT**, Warneke JA, Pollard CM, Lindgren EA, Taljanovic MS. Giant epidermal cyst of the gluteal region. *Radiol Case Rep* 2015; **5**: 476 [PMID: 27307882 DOI: 10.2484/rcr.v5i4.476]



Published By Baishideng Publishing Group Inc
7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA
Telephone: +1-925-2238242
E-mail: bpgoffice@wjgnet.com
Help Desk: <https://www.f6publishing.com/helpdesk>
<https://www.wjgnet.com>

