World Journal of Clinical Cases

World J Clin Cases 2019 September 6; 7(17): 2413-2657





Contents

Semimonthly Volume 7 Number 17 September 6, 2019

MINIREVIEWS

- 2413 Multifocal G1-G2 gastric neuroendocrine tumors: Differentiating between Type I, II and III, a clinicopathologic review

 Algashaamy K, Garcia-Buitrago M
- **2420** Attention deficit hyperactivity disorder and comorbidity: A review of literature *Gnanavel S, Sharma P, Kaushal P, Hussain S*

ORIGINAL ARTICLE

Case Control Study

2427 Dietary manipulation and testosterone replacement therapy may explain changes in body composition after spinal cord injury: A retrospective case report Gorgey AS, Lester RM, Ghatas MP, Sistrun SN, Lavis T

Retrospective Study

- 2438 Risk factors, clinical features, and short-term prognosis of spontaneous fungal peritonitis in cirrhosis: A matched case-control study

 Huang CH, Pang LT, Xu LC, Ge TT, Xu QM, Chen Z
- 2450 Incidence of portal vein thrombosis after splenectomy and its influence on transjugular intrahepatic portosystemic shunt stent patency

 Dong F, Luo SH, Zheng LJ, Chu JG, Huang H, Zhang XQ, Yao KC

Observational Study

2463 Multiplex gene expression profile in inflamed mucosa of patients with Crohn's disease ileal localization: A pilot study

Giudici F, Lombardelli L, Russo E, Cavalli T, Zambonin D, Logiodice F, Kullolli O, Giusti L, Bargellini T, Fazi M, Biancone L, Scaringi S, Clemente AM, Perissi E, Delfino G, Torcia MG, Ficari F, Tonelli F, Piccinni MP, Malentacchi C

Prospective Study

2477 Analysis of the postoperative hemostatic profile of colorectal cancer patients subjected to liver metastasis resection surgery

Perez Navarro G, Pascual Bellosta AM, Ortega Lucea SM, Serradilla Martín M, Ramirez Rodriguez JM, Martinez Ubieto J

SYSTEMATIC REVIEW

2487 Systematic review of ablative therapy for the treatment of renal allograft neoplasms

Favi E, Raison N, Ambrogi F, Delbue S, Clementi MC, Lamperti L, Perego M, Bischeri M, Ferraresso M

World Journal of Clinical Cases

Contents

Volume 7 Number 17 September 6, 2019

CASE REPORT

- **2505** Subcutaneous sarcoidosis of the upper and lower extremities: A case report and review of the literature *Mehrzad R, Festa J, Bhatt R*
- 2513 Atypical cutaneous lesions in advanced-stage Hodgkin lymphoma: A case report Massaro F, Ferrari A, Zendri E, Zanelli M, Merli F
- **2519** Characteristics of multiple nodules in a patient with pulmonary Langerhans cell histiocytosis: A case report *Kanaji N, Tokunaga Y, Ishikawa R, Watanabe N, Kadowaki N*
- 2526 Impact of continuous local lavage on pancreatic juice-related postoperative complications: Three case reports Hori T, Ogawa K, Yamamoto H, Harada H, Matsumura K, Yamamoto M, Yamada M, Yazawa T, Kuriyama K, Tani M, Yasukawa D, Kamada Y, Aisu Y, Tani R, Aoyama R, Nakayama S, Sasaki Y, Nishimoto K, Zaima M
- **2536** Adult intussusception caused by colonic anisakis: A case report *Choi YI, Park DK, Cho HY, Choi SJ, Chung JW, Kim KO, Kwon KA, Kim YJ*
- 2542 Robotic-assisted resection of ovarian tumors in children: A case report Xie XX, Wang N, Wang ZH, Zhu YY, Wang JR, Wang XQ
- 2549 Synovial sarcoma in the plantar region: A case report and literature review *Gao J, Yuan YS, Liu T, Lv HR, Xu HL*
- 2556 Severe serous cavity bleeding caused by acquired factor V deficiency associated with lymphatic leakage in a hemodialysis patient: A case report *Zhao WB, Chen YR, Luo D, Lin HC, Long B, Wu ZY, Peng H*
- 2562 Supermicrosurgery in fingertip defects-split tibial flap of the second toe to reconstruct multiple fingertip defects: A case report Wang KL, Zhang ZQ, Buckwalter JA, Yang Y
- 2567 Ultrasound-guided fascia iliaca compartment block combined with general anesthesia for amputation in an acute myocardial infarction patient after percutaneous coronary intervention: A case report Ling C, Liu XQ, Li YQ, Wen XJ, Hu XD, Yang K
- 2573 Rare spontaneous intrahepatic portosystemic shunt in hepatitis B-induced cirrhosis: A case report *Tan YW, Sheng JH, Tan HY, Sun L, Yin YM*
- **2580** Imaging of mixed epithelial and stromal tumor of the kidney: A case report and review of the literature *Ye J, Xu Q, Zheng J, Wang SA, Wu YW, Cai JH, Yuan H*
- 2587 Allogenic tooth transplantation using 3D printing: A case report and review of the literature *Xu HD, Miron RJ, Zhang XX, Zhang YF*

World Journal of Clinical Cases

Contents

Volume 7 Number 17 September 6, 2019

REVIEW

2597 Fecal microbiota transplantation as an effective initial therapy for pancreatitis complicated with severe Clostridium difficile infection: A case report Hu Y, Xiao HY, He C, Lv NH, Zhu L

CASE REPORT

- Organ-associated pseudosarcomatous myofibroblastic proliferation with ossification in the lower pole of the kidney mimicking renal pelvic carcinoma: A case report

 Zhai TY, Luo BJ, Jia ZK, Zhang ZG, Li X, Li H, Yang JJ
- 2611 Treating aplasia cutis congenita in a newborn with the combination of ionic silver dressing and moist exposed burn ointment: A case report

Lei GF, Zhang JP, Wang XB, You XL, Gao JY, Li XM, Chen ML, Ning XQ, Sun JL

- 2617 Cause of postprandial vomiting a giant retroperitoneal ganglioneuroma enclosing large blood vessels: A case report
 Zheng X, Luo L, Han FG
- 2623 Carcinoma ex pleomorphic adenoma of the trachea: A case report Gao HX, Li Q, Chang WL, Zhang YL, Wang XZ, Zou XX
- 2630 Wilson disease associated with immune thrombocytopenia: A case report and review of the literature *Ma TJ, Sun GL, Yao F, Yang ZL*
- **2637** Calcifying fibrous tumor of the mediastinum: A case report *Qi DJ, Zhang QF*
- Brachiocephalic artery stenting through the carotid artery: A case report and review of the literature *Xu F, Wang F, Liu YS*
- 2652 An extremely rare pedunculated lipoma of the hypopharynx: A case report Sun Q, Zhang CL, Liu ZH

Contents

World Journal of Clinical Cases

Volume 7 Number 17 September 6, 2019

ABOUT COVER

Editorial Board Member of *World Journal of Clinical Cases*, Marianna Luongo, MD, Doctor, Surgeon, Department of Neurosurgery, Azienda Ospedaliera Regionale San Carlo, Potenza 85100, Italy

AIMS AND SCOPE

The primary aim of the *World Journal of Clinical Cases* (*WJCC*) 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.

The *WJCC* mainly publishes case reports, case series, research results and findings in the field of clinical medicine covering a wide range of topics including diagnostic, therapeutic, and preventive modalities.

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: Yan-Xia Xing

Proofing Production Department Director: Yun-Xiaojian 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, Sandro Vento

EDITORIAL BOARD MEMBERS

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

EDITORIAL OFFICE

Jin-Lei Wang, Director

PUBLICATION DATE

September 6, 2019

COPYRIGHT

© 2019 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 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

© 2019 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

E-mail: bpgoffice@wignet.com https://www.wignet.com



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

World J Clin Cases 2019 September 6; 7(17): 2617-2622

DOI: 10.12998/wjcc.v7.i17.2617 ISSN 2307-8960 (online)

CASE REPORT

Cause of postprandial vomiting - a giant retroperitoneal ganglioneuroma enclosing large blood vessels: A case report

Xue Zheng, Li Luo, Fu-Gang Han

ORCID number: Xue Zheng (0000-0002-7091-0320); Li Luo (0000-0001-5307-0684); Fu-Gang Han (0000-0001-6191-5077).

Author contributions: Zheng X consulted literature, collected images and wrote this paper. Luo L collected clinical data and consulted literature. Han FG designed the research, reviewed and revised the paper.

Informed consent statement:

Informed written consent was obtained from the patient.

Conflict-of-interest statement: The authors declare that they have no conflict of interest.

CARE Checklist (2016) statement:

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 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/licen ses/by-nc/4.0/

Manuscript source: Unsolicited manuscript

Received: April 2, 2019

Xue Zheng, Li Luo, Fu-Gang Han, Department of Radiology, The Affiliated Hospital of Southwest Medical University, Luzhou 646000, Sichuan Province, China

Corresponding author: Fu-Gang Han, MD, Doctor, Full Professor, Deputy Director, Department of Radiology, The Affiliated Hospital of Southwest Medical University, Third Section of Zhongshan Road, Jiangyang District, Luzhou 646000, Sichuan Province, China. 8311hfg@163.com

Telephone: +86-18308313971 Fax: +86-0830-3636088

Abstract

BACKGROUND

Ganglioneuroma (GN) is a rare neurogenic tumor that accounts for about 0.1%-0.5% of all tumors of the nervous system. It originates from neural crest cells. GN has no specific clinical symptoms or laboratory findings, which leaves it easily overlooked and misdiagnosed as other tumors. Retroperitoneal GN with very large volume and vascular penetration is extremely rare.

CASE SUMMARY

We present the imaging and pathological findings of a giant retroperitoneal GN in a child. A 4-year-old boy had suffered from postprandial vomiting for more than 6 mo with no precipitating factors. Abdominal computerized tomographic examination showed a giant cystic mass in the retroperitoneal area. After injection of contrast agent, the mass showed heterogeneous enhancement. Surgery with local excision of the mass was performed to address the embedded abdominal blood vessels, and the histopathological and immunohistochemical diagnosis of the mass was GN. Postprandial vomiting was relieved, and no complications occurred after the operation.

CONCLUSION

In the diagnosis of giant retroperitoneal hypodense masses in children, GN should be considered if the mass presents delayed enhancement, punctate calcification, and vascular embedding but no invasion. Pathology is the golden standard for the diagnosis of GN, and surgical excision is the optimal treatment for GN.

Key words: Retroperitoneal; Ganglioneuroma; Postprandial vomiting; Case report

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

Peer-review started: April 4, 2019 First decision: July 30, 2019 Revised: August 7, 2019 Accepted: August 20, 2019 Article in press: August 20, 2019 Published online: September 6,

P-Reviewer: Pandey A S-Editor: Dou Y **L-Editor:** Wang TQ E-Editor: Qi LL



Core tip: Ganglioneuroma (GN) is a rare benign neurogenic tumor originating from the sympathetic nerve chain. Although it often occurs in the retroperitoneum, we report a case of giant GN causing postprandial vomiting and enclosing all major abdominal vessels, which is clinically rare. Surgical resection is the optimal choice for the treatment of GN at present. Pathology is the gold standard for the diagnosis of GN, and the presence of mucous matrix and ganglion cells are pathological features of GN.

Citation: Zheng X, Luo L, Han FG. Cause of postprandial vomiting - a giant retroperitoneal ganglioneuroma enclosing large blood vessels: A case report. World J Clin Cases 2019;

7(17): 2617-2622

URL: https://www.wjgnet.com/2307-8960/full/v7/i17/2617.htm

DOI: https://dx.doi.org/10.12998/wjcc.v7.i17.2617

INTRODUCTION

Ganglioneuroma (GN) is a benign neurogenic tumor that accounts for more than 0.1%-0.5% of all tumors of the nervous system^[1]. It commonly occurs in the mediastinum (41.5%) and retroperitoneum (37.5%)[1-3]. Patients are usually asymptomatic, and GN is often found via physical examination. However, the tumor can press against the adjacent organs and cause complications if it reaches a great enough size. Here, we introduce a case of a 4-year-old boy with giant retroperitoneal GN associated with postprandial vomiting enclosing the main abdominal vessels. To our knowledge, existing reports mention only small arteries passing through GN, and there is no previous work reporting GN enclosing so many large arteries. The aim of our report is to present a rare case and discuss the related clinical, imaging, and pathological features.

CASE PRESENTATION

Chief complaints

A 4-year-old boy was admitted to our hospital with a history of postprandial vomiting for more than 6 mo without precipitating factors and abdominal pain, chill, fever, or anal cessation of exsufflation or defecation.

History of present illness

He had poor appetite but no weight loss during his illness.

History of past illness

The child was of full-term natural delivery with normal feeding and timely vaccination.

Personal and family history

He had no previous or family history of similar illnesses.

Physical examination upon admission

Physical examination showed abdominal bulge and intestinal type in the upper abdomen. The epigastrium showed a palpable mass with poor mobility; the lump was hard but was associated with no tenderness.

Laboratory examinations

The laboratory examinations (including blood and urine routine tests, coagulation function tests, liver and kidney function tests, and tumor markers) were normal.

Imaging examinations

The pre-contrast computerized tomographic (CT) scan presented a retroperitoneal giant hypodense mass with a size of 10.7 cm × 17.3 cm × 15.5 cm and a CT value of 33.8 HU. Spotted calcification with irregular distribution was noted in the mass. The tumor showed inhomogeneous flocculent enhancement in the venous phase and further enhancement in the delayed phase after intravenous injection of contrast agent (Figure 1). We observed that the stomach had been pushed forward and displaced, which was also considered the main cause of postprandial vomiting for the patient. The tumor surrounded the celiac trunk, hepatic artery, splenic artery, superior mesenteric artery, bilateral renal artery, and portal vein. Nevertheless, the enclosed vascular lumen did not become narrowed or distorted (Figure 2 and 3). Of course, this created a difficult problem for the patient's surgical treatment, such that the surgeon was only able to remove the relatively non-vascular part of the tumor.

Histopathology revealed the spindle cell tumor with nerve fibers and ganglion cells. Immunohistochemical investigation showed the tumor cells expressed NSE (diffuse +), Syn (+), S100 (diffuse +), and NF (diffuse +) and were negative for GFAP, CR, P53, and SMA. The Ki-67 proliferation index was 5%.

FINAL DIAGNOSIS

Retroperitoneal GN.

TREATMENT

The patient underwent partial resection of two retroperitoneal tumors about 6.0 cm × $3.0 \text{ cm} \times 2.0 \text{ cm}$ and $6.0 \text{ cm} \times 5.0 \text{ cm} \times 4.0 \text{ cm}$ in size.

OUTCOME AND FOLLOW-UP

Postprandial vomiting was relieved, and no complications occurred. The patient was discharged 10 d after surgery. The patient's parents declined follow-up after discharge and did not disclose their reasons.

DISCUSSION

Retroperitoneal GNs account for 37.5% of all GNs and about 0.72%-1.6% of primary retroperitoneal tumors[1-3]. GNs can also occur in the vertebra, neck, and cerebellopontine angle region (trigeminal); all three of which are relatively rare^[4-8]. GNs are found incidentally in most cases and manifest as asymptomatic masses^[2,9,10]. The tumor could cause some complications if it becomes large enough to press against the adjacent organs. In our case, the stomach dilated after meals, peristalsis became limited after means due to the compression from the GN, and food could not easily enter the duodenum, causing postprandial vomiting. Occasionally, GNs occurring in the adrenal gland can secrete vasoactive intestinal peptides, dopamine, and cortisol, which lead to diarrhea, hypertensive crisis, and male-like metabolic disorders in women[11-13].

GNs are mainly composed of ganglion cells, mucus matrix, nerve fibers, and mature Schwann cells, and the first two of them are characteristic components in histopathology^[14,15]. The pathological features of GN are closely related to its CT findings. The presence of mucus matrix in tumors determines the hypodensity on plain CT scans. The mucus matrix has been found to delay the absorption of contrast agents, which leads to the delayed enhancement of GNs^[16,17]. This case was misdiagnosed as retroperitoneal cystic lymphangioma initially. Similar to this case, cystic lymphangioma tends to occur in children and presents as a large, well-defined low-density mass in the retroperitoneum[18], which can also wrap around blood vessels without distorting them, while a retroperitoneal GN of such a large size as this case is rare and it is predominant in adults. However, in this case, flocculent and strip delayed enhancement was observed, which was consistent with the enhancement of GN, while cystic lymphangioma was generally not enhanced, which was the most important distinguishing point between them. Calcifications have been noted in 20%-60% of GNs, and most of them are punctate, which is also one of the differences between GN and neuroblastoma^[19,20]. Punctate calcification with scattered distribution was also noted on plain CT images in this case. Ko et al[14] and Duffy et al[21] suggested that the presence of fat components in GN may be one of the characteristics of GN, but their sample size was too small to verify this, and we did not notice any fat replacement in our case. Some scholars have proposed that the blood vessels are often surrounded or compressed by GNs instead of being invaded, although most of them are small vessels[16,22], and this finding further suggested that GNs are benign. In this case, GN enclosed all major abdominal vessels, including the celiac trunk, hepatic artery, splenic artery, bilateral renal artery, superior mesenteric artery, inferior vena cava, and portal vein. None of the enclosed vessels had a narrowed lumen or filling

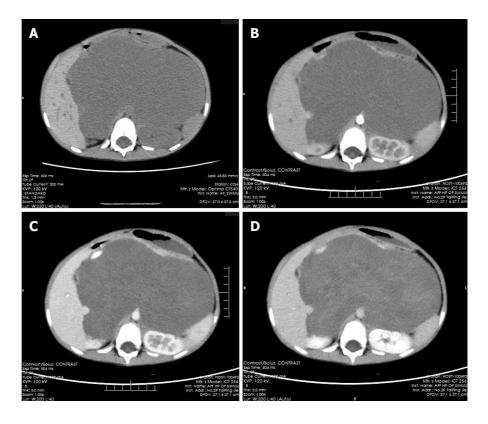


Figure 1 Multiphase enhanced computerized tomographic images of the patient. A: Giant retroperitoneal hypodense mass in pre-contrast and punctate calcification could be noted; B: The hypodense mass without enhancement in arterial and venous phase, and the stomach and kidneys were compressed and displaced; C: The mass presented mild enhancement in venous phase; D: The mass showed patchy and flocculent enhancement in delay phase, and the extent of enhancement was greater than that of the venous phase.

defect, which provided more reliable support for these scholars' views. However, there are some reports suggesting that GNs could behave aggressively, and recurrence or malignant transformation^[2,23,24] and complete surgical excision are the most optimal choice for the treatment^[8,25]. Therefore, patients with GN still need longterm radiological follow-up. In addition, some scholars have put forward a different view, arguing that incomplete resection of GN does not increase the risk of progression if residual tumors are less than 2 cm in diameter^[10]. We believe that it is important to determine whether the tumor is invasive before surgery and assess pathology to select the most suitable surgical method, an area in which we believe the current research into GN is lacking.

In conclusion, GNs appear as hypodense masses on plain scans and present delayed and mild enhancement on contrast enhancement. Pathology is the gold standard for the diagnosis of GN, and mucous matrix and ganglion cells are their important features. Surgical excision is the best treatment for GN, and postoperative radiotherapy and chemotherapy are unnecessary. However, in cases where it is difficult to completely dissect the tumors and blood vessels, partial resection could still relieve the pressure symptoms created by the tumors. Long-term radiological follow-up after the operation is necessary, even though the biological behavior of GN is benign, because there is still a tendency to be malignant, especially in patients with GN who have undergone only local resection.

CONCLUSION

Retroperitoneal GN, which is huge and encloses a large number of blood vessels without invading, is rare in clinical settings. Although some previous studies maintain that complete resection of the tumor is not necessary, finding suitable ways of assessing the invasiveness of GN after pathology and radiology still needs further discussion and study.

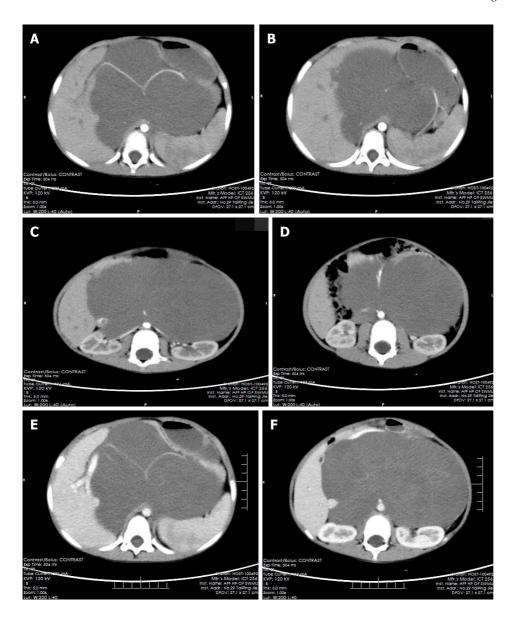


Figure 2 The computerized tomographic images of tumors surrounding blood vessels. A-D: Tumor-enclosed arteries: hepatic artery (A), splenic artery (A, B), bilateral renal artery (C), superior mesenteric artery (D); E, F: Tumor-enclosed veins: Portal vein (E) and inferior vena cava (F).

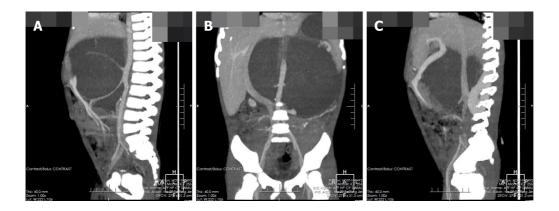


Figure 3 Coronal and sagittal of the computerized tomographic images. A, B: Tumor-enclosed arteries; C: Tumor-enclosed veins.

REFERENCES

Shimada H, Ambros IM, Dehner LP, Hata J, Joshi VV, Roald B. Terminology and morphologic criteria of neuroblastic tumors: recommendations by the International Neuroblastoma Pathology Committee. Cancer



- 1999; **86**: 349-363 [PMID: 10421272 DOI: 10.1002/(sici)1097-0142(19990715)86:2<349::aid-cncr20>3.0.co;2-y]
- 2 Lonergan GJ, Schwab CM, Suarez ES, Carlson CL. Neuroblastoma, ganglioneuroblastoma, and ganglioneuroma: radiologic-pathologic correlation. Radiographics 2002; 22: 911-934 [PMID: 12110723 DOI: 10.1148/radiographics.22.4.g02jl15911]
- Geoerger B, Hero B, Harms D, Grebe J, Scheidhauer K, Berthold F, Metabolic activity and clinical 3 features of primary ganglioneuromas. Cancer 2001; 91: 1905-1913 [PMID: 11346873 DOI: 10.1002/1097-0142(20010515)91:10<1905::aid-ener1213>3.0.co;2-4]
- Ulusoy OL, Aribal S, Mutlu A, Enercan M, Ozturk E. Ganglioneuroma of the lumbar spine presenting with scoliosis in a 7-year-old child. Spine J 2016; 16: e727 [PMID: 27012649 DOI: 10.1016/i.spinee.2016.03.0291
- Santaella FJ, Hamamoto Filho PT, Poliseli GB, de Oliveira VA, Ducati LG, Moraes MPT, Zanini MA. 5 Giant Thoracolumbar Dumbbell Ganglioneuroma. Pediatr Neurosurg 2018; 53: 288-289 [PMID: 9698954 DOI: 10.1159/000488499]
- Urata S, Yoshida M, Ebihara Y, Asakage T. Surgical management of a giant cervical ganglioneuroma. 6 Auris Nasus Larynx 2013; 40: 577-580 [PMID: 23433475 DOI: 10.1016/j.anl.2013.01.005]
- Deng X, Fang J, Luo Q, Tong H, Zhang W. Advanced MRI manifestations of trigeminal ganglioneuroma: a case report and literature review. BMC Cancer 2016; 16: 694 [PMID: 27576442 DOI:
- Barrena López C, De la Calle García B, Sarabia Herrero R. Intradural Ganglioneuroma Mimicking 8 Lumbar Disc Herniation: Case Report. World Neurosurg 2018; 117: 40-45 [PMID: 29886296 DOI: 10.1016/j.wneu.2018.05.225]
- Yam B, Walczyk K, Mohanty SK, Coren CV, Katz DS. Radiology-pathology conference: incidental posterior mediastinal ganglioneuroma. Clin Imaging 2009; 33: 390-394 [PMID: 19712821 DOI: 10.1016/j.clinimag.2009.03.009]
- Decarolis B, Simon T, Krug B, Leuschner I, Vokuhl C, Kaatsch P, von Schweinitz D, Klingebiel T, Mueller I, Schweigerer L, Berthold F, Hero B. Treatment and outcome of Ganglioneuroma and Ganglioneuroblastoma intermixed. BMC Cancer 2016; 16: 542 [PMID: 27465021 DOI: 10.1186/s12885-016-2513-91
- Koch CA, Brouwers FM, Rosenblatt K, Burman KD, Davis MM, Vortmeyer AO, Pacak K. Adrenal 11 ganglioneuroma in a patient presenting with severe hypertension and diarrhea. Endocr Relat Cancer 2003; 10: 99-107 [PMID: 12653673 DOI: 10.1677/erc.0.0100099]
- Diab DL, Faiman C, Siperstein AE, Zhou M, Zimmerman RS. Virilizing adrenal ganglioneuroma in a woman with subclinical Cushing syndrome. Endocr Pract 2008; 14: 584-587 [PMID: 18753101 DOI: 10.4158/EP.14.5.584]
- 13 Erem C, Kocak M, Cinel A, Erso HO, Reis A. Dopamine-secreting adrenal ganglioneuroma presenting with paroxysmal hypertension attacks. Saudi Med J 2008; 29: 122-125 [PMID: 18176686]
- Ko SM, Keum DY, Kang YN. Posterior mediastinal dumbbell ganglioneuroma with fatty replacement. Br J Radiol 2007; 80: e238-e240 [PMID: 17959913 DOI: 10.1259/bjr/97270791
- Herr K, Muglia VF, Koff WJ, Westphalen AC. Imaging of the adrenal gland lesions. Radiol Bras 2014; 15 47: 228-239 [PMID: 25741090 DOI: 10.1590/0100-3984.2013.1762]
- Guan YB, Zhang WD, Zeng QS, Chen GQ, He JX. CT and MRI findings of thoracic ganglioneuroma. Br16 J Radiol 2012; 85: e365-e372 [PMID: 22573298 DOI: 10.1259/bjr/53395088]
- Otal P, Mezghani S, Hassissene S, Maleux G, Colombier D, Rousseau H, Joffre F. Imaging of 17 retroperitoneal ganglioneuroma. Eur Radiol 2001; 11: 940-945 [PMID: 11419166 DOI:
- Alqahtani A, Nguyen LT, Flageole H, Shaw K, Laberge JM. 25 years' experience with lymphangiomas in children. J Pediatr Surg 1999; 34: 1164-1168 [PMID: 10442614 DOI: 10.1016/s0022-3468(99)90590-0]
- Wang F, Liu J, Zhang R, Bai Y, Li C, Li B, Liu H, Zhang T. CT and MRI of adrenal gland pathologies. 19 Quant Imaging Med Surg 2018; 8: 853-875 [PMID: 30306064 DOI: 10.21037/qims.2018.09.13]
- Ichikawa T, Ohtomo K, Araki T, Fujimoto H, Nemoto K, Nanbu A, Onoue M, Aoki K. Ganglioneuroma: 20 computed tomography and magnetic resonance features. Br J Radiol 1996; 69: 114-121 [PMID: 8785637 DOI: 10.1259/0007-1285-69-818-114]
- Duffy S, Jhaveri M, Scudierre J, Cochran E, Huckman M. MR imaging of a posterior mediastinal 21 ganglioneuroma: fat as a useful diagnostic sign. AJNR Am J Neuroradiol 2005; 26: 2658-2662 [PMID:
- Cai TY, Mendis R, Das KK, Stephen M, Crawford M. Rare adrenal ganglioneuroma encasing the inferior 22 vena cava. ANZ J Surg 2018 [PMID: 30117649 DOI: 10.1111/ans.14744]
- Hayashi Y, Iwato M, Hasegawa M, Tachibana O, von Deimling A, Yamashita J. Malignant transformation 23 of a gangliocytoma/ganglioglioma into a glioblastoma multiforme: a molecular genetic analysis. Case report. J Neurosurg 2001; 95: 138-142 [PMID: 11453385 DOI: 10.3171/jns.2001.95.1.0138]
- Kulkarni AV, Bilbao JM, Cusimano MD, Muller PJ. Malignant transformation of ganglioneuroma into spinal neuroblastoma in an adult. Case report. J Neurosurg 1998; 88: 324-327 [PMID: 9452244 DOI: 10.3171/jns.1998.88.2.0324]
- Fraga JC, Aydogdu B, Aufieri R, Silva GV, Schopf L, Takamatu E, Brunetto A, Kiely E, Pierro A. Surgical treatment for pediatric mediastinal neurogenic tumors. Ann Thorac Surg 2010; 90: 413-418 [PMID: 20667322 DOI: 10.1016/j.athoracsur.2010.04.086]



Published By Baishideng Publishing Group Inc 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

Telephone: +1-925-2238242 Fax: +1-925-2238243

E-mail: bpgoffice@wjgnet.com

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

https://www.wjgnet.com

