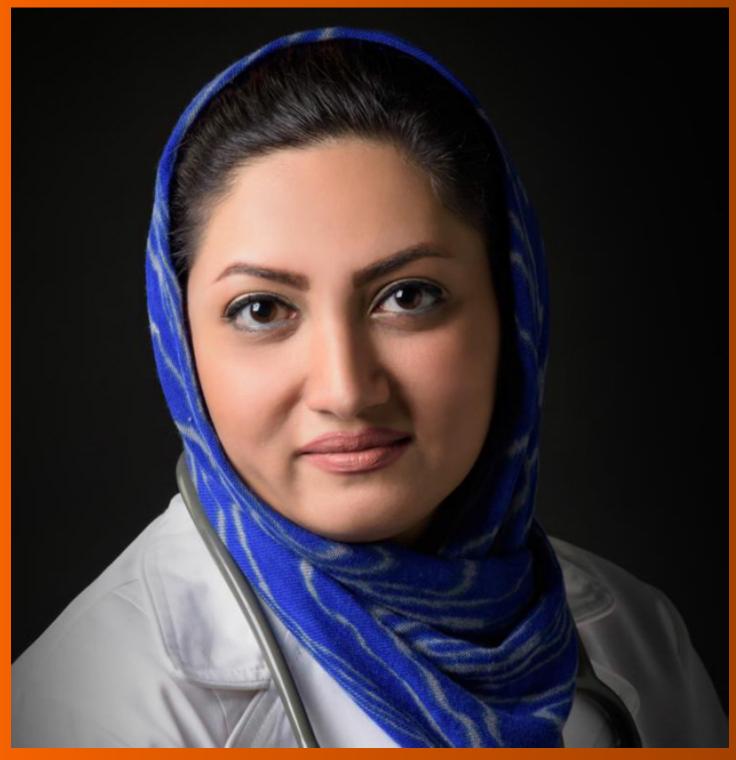
World J Clin Cases 2021 August 6; 9(22): 6178-6581





Contents

Thrice Monthly Volume 9 Number 22 August 6, 2021

REVIEW

6178 COVID-19 infection and liver injury: Clinical features, biomarkers, potential mechanisms, treatment, and management challenges

Sivandzadeh GR, Askari H, Safarpour AR, Ejtehadi F, Raeis-Abdollahi E, Vaez Lari A, Abazari MF, Tarkesh F, Bagheri Lankarani K

6201 Gastrointestinal manifestations of systemic sclerosis: An updated review

Luquez-Mindiola A, Atuesta AJ, Gómez-Aldana AJ

MINIREVIEWS

Mesenchymal stem cell-derived exosomes: An emerging therapeutic strategy for normal and chronic 6218 wound healing

Zeng QL, Liu DW

6234 Role of autophagy in cholangiocarcinoma: Pathophysiology and implications for therapy

Ninfole E, Pinto C, Benedetti A, Marzioni M, Maroni L

ORIGINAL ARTICLE

Case Control Study

6244 Risk factors for intussusception in children with Henoch-Schönlein purpura: A case-control study

Zhao Q, Yang Y, He SW, Wang XT, Liu C

Retrospective Study

6254 Sequential therapy with combined trans-papillary endoscopic naso-pancreatic and endoscopic retrograde pancreatic drainage for pancreatic pseudocysts

He YG, Li J, Peng XH, Wu J, Xie MX, Tang YC, Zheng L, Huang XB

6268 Retrospective study of effect of whole-body vibration training on balance and walking function in stroke

Xie L, Yi SX, Peng QF, Liu P, Jiang H

6278 Risk factors for preoperative carcinogenesis of bile duct cysts in adults

Wu X, Li BL, Zheng CJ, He XD

6287 Diagnostic and prognostic value of secreted protein acidic and rich in cysteine in the diffuse large B-cell lymphoma

Pan PJ, Liu JX

6300 Jumbo cup in hip joint renovation may cause the center of rotation to increase

Peng YW, Shen JM, Zhang YC, Sun JY, Du YQ, Zhou YG

Contents

Thrice Monthly Volume 9 Number 22 August 6, 2021

Clinical Trials Study

6308 Effect of exercise training on left ventricular remodeling in patients with myocardial infarction and possible mechanisms

Cai M, Wang L, Ren YL

Observational Study

6319 Analysis of sleep characteristics and clinical outcomes of 139 adult patients with infective endocarditis after surgery

Hu XM, Lin CD, Huang DY, Li XM, Lu F, Wei WT, Yu ZH, Liao HS, Huang F, Huang XZ, Jia FJ

- 6329 Health-related risky behaviors and their risk factors in adolescents with high-functioning autism Sun YJ, Xu LZ, Ma ZH, Yang YL, Yin TN, Gong XY, Gao ZL, Liu YL, Liu J
- 6343 Selection of internal fixation method for femoral intertrochanteric fractures using a finite element method Mu JX, Xiang SY, Ma QY, Gu HL

META-ANALYSIS

Neoadjuvant chemotherapy for patients with resectable colorectal cancer liver metastases: A systematic 6357 review and meta-analysis

Zhang Y, Ge L, Weng J, Tuo WY, Liu B, Ma SX, Yang KH, Cai H

CASE REPORT

- 6380 Ruptured intracranial aneurysm presenting as cerebral circulation insufficiency: A case report Zhao L, Zhao SQ, Tang XP
- 6388 Prostatic carcinosarcoma seven years after radical prostatectomy and hormonal therapy for prostatic adenocarcinoma: A case report

Huang X, Cai SL, Xie LP

6393 Pyogenic arthritis, pyoderma gangrenosum, and acne syndrome in a Chinese family: A case report and review of literature

Lu LY, Tang XY, Luo GJ, Tang MJ, Liu Y, Yu XJ

- 6403 Malaria-associated secondary hemophagocytic lympho-histiocytosis: A case report Zhou X, Duan ML
- 6410 Ileal hemorrhagic infarction after carotid artery stenting: A case report and review of the literature Xu XY, Shen W, Li G, Wang XF, Xu Y
- 6418 Inflammatory myofibroblastic tumor of the pancreatic neck: A case report and review of literature Chen ZT, Lin YX, Li MX, Zhang T, Wan DL, Lin SZ
- 6428 Management of heterotopic cesarean scar pregnancy with preservation of intrauterine pregnancy: A case report

II

Chen ZY, Zhou Y, Qian Y, Luo JM, Huang XF, Zhang XM

Contents

Thrice Monthly Volume 9 Number 22 August 6, 2021

6435 Manifestation of severe pneumonia in anti-PL-7 antisynthetase syndrome and B cell lymphoma: A case report

Xu XL, Zhang RH, Wang YH, Zhou JY

- 6443 Disseminated infection by Fusarium solani in acute lymphocytic leukemia: A case report Yao YF, Feng J, Liu J, Chen CF, Yu B, Hu XP
- Primary hepatic neuroendocrine tumor 18F-fluorodeoxyglucose positron emission 6450 tomography/computed tomography findings: A case report

Rao YY, Zhang HJ, Wang XJ, Li MF

6457 Malignant peripheral nerve sheath tumor in an elderly patient with superficial spreading melanoma: A case report

Yang CM, Li JM, Wang R, Lu LG

6464 False positive anti-hepatitis A virus immunoglobulin M in autoimmune hepatitis/primary biliary cholangitis overlap syndrome: A case report

Yan J, He YS, Song Y, Chen XY, Liu HB, Rao CY

6469 Successful totally laparoscopic right trihepatectomy following conversion therapy for hepatocellular carcinoma: A case report

Zhang JJ, Wang ZX, Niu JX, Zhang M, An N, Li PF, Zheng WH

- 6478 Primary small cell esophageal carcinoma, chemotherapy sequential immunotherapy: A case report Wu YH, Zhang K, Chen HG, Wu WB, Li XJ, Zhang J
- 6485 Subdural fluid collection rather than meningitis contributes to hydrocephalus after cervical laminoplasty: A case report

Huang HH, Cheng ZH, Ding BZ, Zhao J, Zhao CQ

- 6493 Phlegmonous gastritis developed during chemotherapy for acute lymphocytic leukemia: A case report Saito M, Morioka M, Izumiyama K, Mori A, Ogasawara R, Kondo T, Miyajima T, Yokoyama E, Tanikawa S
- 6501 Spinal epidural hematoma after spinal manipulation therapy: Report of three cases and a literature review Liu H, Zhang T, Qu T, Yang CW, Li SK
- 6510 Abdominal hemorrhage after peritoneal dialysis catheter insertion: A rare cause of luteal rupture: A case

Ш

Gan LW, Li QC, Yu ZL, Zhang LL, Liu Q, Li Y, Ou ST

- 6515 Concealed mesenteric ischemia after total knee arthroplasty: A case report Zhang SY, He BJ, Xu HH, Xiao MM, Zhang JJ, Tong PJ, Mao Q
- 6522 Chylothorax following posterior low lumbar fusion surgery: A case report Huang XM, Luo M, Ran LY, You XH, Wu DW, Huang SS, Gong Q
- 6531 Non-immune hydrops fetalis: Two case reports Maranto M, Cigna V, Orlandi E, Cucinella G, Lo Verso C, Duca V, Picciotto F

Contents

Thrice Monthly Volume 9 Number 22 August 6, 2021

- 6538 Bystander effect and abscopal effect in recurrent thymic carcinoma treated with carbon-ion radiation therapy: A case report
 - Zhang YS, Zhang YH, Li XJ, Hu TC, Chen WZ, Pan X, Chai HY, Ye YC
- 6544 Management of an intracranial hypotension patient with diplopia as the primary symptom: A case report Wei TT, Huang H, Chen G, He FF
- 6552 Spontaneous rupture of adrenal myelolipoma as a cause of acute flank pain: A case report Kim DS, Lee JW, Lee SH
- 6557 Neonatal necrotizing enterocolitis caused by umbilical arterial catheter-associated abdominal aortic embolism: A case report
 - Huang X, Hu YL, Zhao Y, Chen Q, Li YX
- 6566 Primary mucosa-associated lymphoid tissue lymphoma in the midbrain: A case report Zhao YR, Hu RH, Wu R, Xu JK
- 6575 Extensive cutaneous metastasis of recurrent gastric cancer: A case report Chen JW, Zheng LZ, Xu DH, Lin W

ΙX

Contents

Thrice Monthly Volume 9 Number 22 August 6, 2021

ABOUT COVER

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CASE REPORT

Spontaneous rupture of adrenal myelolipoma as a cause of acute flank pain: A case report

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Abstract

BACKGROUND

Adrenal myelolipoma is a rare, benign, non-functioning mass that occurs in the adrenal gland. It is composed of an admixture of hematopoietic elements and mature adipose tissue, similar to bone marrow. Even at large sizes, adrenal myelolipomas are usually asymptomatic and often incidentally found by ultrasonography or computed tomography (CT) scan. This paper describes an unusual case of adrenal myelolipoma presenting as flank pain.

CASE SUMMARY

A 50-year-old male with severe right flank pain underwent a CT scan revealing a huge mass extending into the suprarenal space. The mass showed a fat component with retroperitoneal hemorrhage. The tumor was treated laparoscopically, and pathologic examination revealed features of myelolipoma originating from the adrenal gland.

CONCLUSION

Adrenal myelolipomas are generally asymptomatic and can be treated conservatively. However, rupture and hemorrhage of the tumor can cause symptoms requiring surgical removal.

Key Words: Adrenal neoplasms; Myelolipoma; Adrenal glands; Case report

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Core Tip: Adrenal myelolipomas are rare, benign, non-functioning masses that are generally asymptomatic. They can be managed conservatively, but in symptomatic cases with rupture or hemorrhage, surgical removal may be required. This article presents a rare case of adrenal myelolipoma rupture requiring laparoscopic excision Checklist (2016).

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INTRODUCTION

Adrenal myelolipoma is a rare, benign, non-functioning mass of the adrenal gland. It is composed of an admixture of hematopoietic elements and mature adipose tissue, similar to the elements of the bone marrow[1]. The name myelolipoma was given to the tumor by Oberling[2] in 1929. Myelolipomas can occur at various sites, especially in the retroperitoneum, pelvis, mediastinum, and paravertebral region[3]. To our knowledge, very few cases of adrenal myelolipoma have been reported. Recently, we treated a complicated case of a ruptured huge adrenal myelolipoma. This paper discusses our experience and provides a short review of the literature.

CASE PRESENTATION

Chief complaints

A 50-year-old man visited the department of emergency medicine complaining of severe right flank pain.

History of present illness

He had no recent history of trauma or injuries to his abdomen or right flank. The pain had started a few hours before arriving at the emergency department and it could not be relieved with generic over-the-counter pain killers.

History of past illness

Review of the patient's past medical history revealed nothing significant. He had no history of receiving any surgeries or medical procedures.

Personal and family history

The patient could not remember any remarkable medical history of his parents and siblings.

Physical examination

On physical examination, he had severe tenderness at the right costovertebral angle. There was no discoloration of the skin and no traumatic wounds or lesions were observed. He described having a severe flank pain that he could not accurately localize. The pain had abruptly started a few hours ago and it had not subsided with medication. It was distinct from pain caused by ureteral stones, which would have been acute, colicky, and more responsive to analgesics. The patient's vital signs were stable, though he was slightly tachycardic.

Laboratory examinations

His hemoglobin level was normal and did not change after the first day. Although the computed tomography (CT) findings were consistent with adrenal myelolipoma, we assessed his hormone levels to rule out other hormonally active tumors, and all results were within normal limits.

Imaging examinations

CT scan showed a huge mass in the right suprarenal area, with fat components and retroperitoneal hemorrhage (Figure 1). It was approximately 9 cm with homogeneous adipose density that was not enhanced by contrast media. Hematoma formation due to retroperitoneal hemorrhage from the rupture was observed but no active bleeding

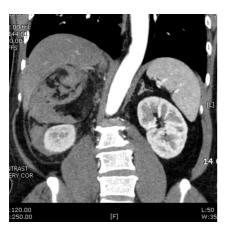


Figure 1 Computed tomography scan of the adrenal myelolipoma. On computed tomography, adrenal myelolipomas exhibit distinct characteristics, with most of the mass showing fat attenuation. In this case, the tumor was located superior to the right kidney, showing mixed low attenuation due to the fat component and intermediate attenuation because of hemorrhage.

or dye leakage was seen. Follow-up CT scan was performed one week later, and no definite change was observed compared to the initial scan.

FINAL DIAGNOSIS

The final diagnosis of the patient was a ruptured right adrenal myelolipoma. Pathologic examination after surgery revealed the typical findings of an adrenal myelolipoma with hematoma (Figures 2 and 3) and confirmed our diagnosis.

TREATMENT

After consulting with the patient, laparoscopic surgical excision was performed to remove the ruptured adrenal myelolipoma.

OUTCOME AND FOLLOW-UP

The patient recovered from surgery without complications and no other problems were observed during follow-up.

DISCUSSION

Knowledge of this tumor type remains suboptimal because of its rarity. There are multiple theories concerning the development and etiology of adrenal myelolipomas, including extramedullary hematopoiesis by autonomous proliferation of bone marrow cells transferred during embryogenesis, development from embryonic rests of primitive mesenchymal stem cells, embolism of bone marrow lodging in the adrenal gland, and adrenocortical cell metaplasia of the reticuloendothelial cells of blood capillaries in response to stimuli such as necrosis, infection, or stress[3].

Adrenal myelolipoma is most often an asymptomatic, benign, and hormonally inactive tumor[4-7]. Some studies have shown gender predilection, but there is no statistically significant difference in the incidence between males and females overall. The disease is usually unilateral, with preference for the right side [4,5]. Almost all detailed cases, except extremely huge tumors, were diagnosed by CT scan. Because of the high adipose character of the tumor, CT features are remarkable. The CT value is usually less than -30 Hounsfield units (HU) and is often as low as -100 HU[8]. On magnetic resonance imaging (MRI), the fatty component of this tumor is hyperintense on non-fat-suppressed T1-weighted images. The use of fat suppression can help confirm the diagnosis by demonstrating a loss of signal intensity within the fatty component. MRI is the most sensitive and specific modality for diagnosing adrenal

6554

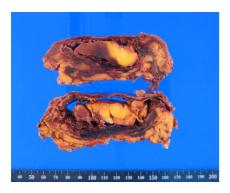


Figure 2 Macroscopic view of the resected tumor. The tumor consisted of mainly of yellowish fat tissue. However, the capsule was ruptured, and hemorrhage was observed, consistent with the computed tomography scan.

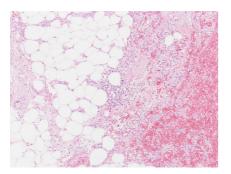


Figure 3 Pathologic findings of the specimen (magnification, × 100). The specimen showed a mixture of mature adipose tissue and hematopoietic elements

hemorrhage[8]. Therefore, when adrenal myelolipoma is difficult to confirm with CT scan, MRI can provide useful information. However, tumors with minimal adipose tissue or hemorrhage can be more difficult to characterize. Although not usually required, fine needle aspiration (FNA) biopsy can confirm the diagnosis. Upon airdried May-Grunwald-Giemsa staining, the FNA material reveals hematopoietic precursors including megakaryocytes, myeloid elements of varying stages of maturation, and fat vacuoles, with adrenal cortical cells in the background[9].

Despite numerous studies on adrenal myelolipomas, there is no universally accepted treatment to manage this tumor. Meyer and Behrend[6] concluded that patients with large, asymptomatic tumors greater than 10 cm should be treated surgically because of the risk of abdominal pain or life-threatening shock caused by spontaneous hemorrhage. Even in cases of small, asymptomatic, incidentally discovered adrenal lesions, some studies have recommended long-term follow-up because interval growth has been reported[10]. However, Han et al[11] insisted that not all tumors should be resected, and that almost none of the tumors grow. They decided to perform surgical resection only in the presence of symptoms, regardless of mass size. Even though each report reached different conclusions, resection of symptomatic adrenal myelolipomas is an acceptable treatment method.

The majority of adrenal myelolipomas is "silent" tumors with no hormonal activity; however, some cases with hormonal abnormality have been noted. Wagnerová et al[7] and Liu et al[12] reported cases of adrenal myelolipomas with hormonal activities. Therefore, patients diagnosed with adrenal myelolipomas on radiologic evaluation and who have other medical problems should be evaluated to detect abnormal hormonal activity.

CONCLUSION

Adrenal myelolipoma is generally a benign and non-functional tumor. If the tumor is asymptomatic and is characteristic on CT scan, it can be treated conservatively. However, if a patient presents with severe symptoms, the tumor must be removed surgically. Based on our experience, surgical intervention can be easily conducted with a laparoscopic approach, even when the tumor has caused hemorrhage.

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