World Journal of Clinical Cases

World J Clin Cases 2020 October 26; 8(20): 4688-5069





Contents

Semimonthly Volume 8 Number 20 October 26, 2020

MINIREVIEWS

4688 Relationship between non-alcoholic fatty liver disease and coronary heart disease

Arslan U, Yenerçağ M

ORIGINAL ARTICLE

Retrospective Cohort Study

4700 Remission of hepatotoxicity in chronic pulmonary aspergillosis patients after lowering trough concentration of voriconazole

Teng GJ, Bai XR, Zhang L, Liu HJ, Nie XH

Retrospective Study

- 4708 Endoscopic submucosal dissection as alternative to surgery for complicated gastric heterotopic pancreas Noh JH, Kim DH, Kim SW, Park YS, Na HK, Ahn JY, Jung KW, Lee JH, Choi KD, Song HJ, Lee GH, Jung HY
- 4719 Observation of the effects of three methods for reducing perineal swelling in children with developmental hip dislocation

Wang L, Wang N, He M, Liu H, Wang XQ

- 4726 Predictive value of serum cystatin C for risk of mortality in severe and critically ill patients with COVID-19 Li Y, Yang S, Peng D, Zhu HM, Li BY, Yang X, Sun XL, Zhang M
- 4735 Sleep quality of patients with postoperative glioma at home Huang Y, Jiang ZJ, Deng J, Qi YJ
- 4743 Early complications of preoperative external traction fixation in the staged treatment of tibial fractures: A series of 402 cases

Yang JZ, Zhu WB, Li LB, Dong QR

4753 Retroperitoneal vs transperitoneal laparoscopic lithotripsy of 20-40 mm renal stones within horseshoe kidneys

Chen X, Wang Y, Gao L, Song J, Wang JY, Wang DD, Ma JX, Zhang ZQ, Bi LK, Xie DD, Yu DX

- 4763 Undifferentiated embryonal sarcoma of the liver: Clinical characteristics and outcomes Zhang C, Jia CJ, Xu C, Sheng QJ, Dou XG, Ding Y
- 4773 Cerebral infarct secondary to traumatic internal carotid artery dissection Wang GM, Xue H, Guo ZJ, Yu JL
- 4785 Home-based nursing for improvement of quality of life and depression in patients with postpartum depression

Zhuang CY, Lin SY, Cheng CJ, Chen XJ, Shi HL, Sun H, Zhang HY, Fu MA



WJCC https://www.wjgnet.com

Semimonthly Volume 8 Number 20 October 26, 2020

Observational Study

4793 Cost-effectiveness of lutetium (177 Lu) oxodotreotide vs everolimus in gastroenteropancreatic neuroendocrine tumors in Norway and Sweden

Palmer J, Leeuwenkamp OR

4807 Factors related to improved American Spinal Injury Association grade of acute traumatic spinal cord injury

Tian C, Lv Y, Li S, Wang DD, Bai Y, Zhou F, Ma QB

4816 Intraoperative systemic vascular resistance is associated with postoperative nausea and vomiting after laparoscopic hysterectomy

Qu MD, Zhang MY, Wang GM, Wang Z, Wang X

META-ANALYSIS

4826 Underwater vs conventional endoscopic mucosal resection in treatment of colorectal polyps: A meta-

Ni DQ, Lu YP, Liu XQ, Gao LY, Huang X

CASE REPORT

4838 Dehydrated patient without clinically evident cause: A case report

Palladino F, Fedele MC, Casertano M, Liguori L, Esposito T, Guarino S, Miraglia del Giudice E, Marzuillo P

4844 Intracranial malignant solitary fibrous tumor metastasized to the chest wall: A case report and review of literature

Usuda D, Yamada S, Izumida T, Sangen R, Higashikawa T, Nakagawa K, Iguchi M, Kasamaki Y

4853 End-of-life home care of an interstitial pneumonia patient supported by high-flow nasal cannula therapy: A case report

Goda K, Kenzaka T, Kuriyama K, Hoshijima M, Akita H

4858 Rupture of carotid artery pseudoaneurysm in the modern era of definitive chemoradiation for head and neck cancer: Two case reports

Kim M, Hong JH, Park SK, Kim SJ, Lee JH, Byun J, Ko YH

4866 Unremitting diarrhoea in a girl diagnosed anti-N-methyl-D-aspartate-receptor encephalitis: A case report Onpoaree N, Veeravigrom M, Sanpavat A, Suratannon N, Sintusek P

4876 Paliperidone palmitate-induced facial angioedema: A case report

Srifuengfung M, Sukakul T, Liangcheep C, Viravan N

4883 Improvement of lenvatinib-induced nephrotic syndrome after adaptation to sorafenib in thyroid cancer: A

Yang CH, Chen KT, Lin YS, Hsu CY, Ou YC, Tung MC

4895 Adult metaplastic hutch diverticulum with robotic-assisted diverticulectomy and reconstruction: A case report

Π

Yang CH, Lin YS, Ou YC, Weng WC, Huang LH, Lu CH, Hsu CY, Tung MC

Contents

Semimonthly Volume 8 Number 20 October 26, 2020

4902 Thrombus straddling a patent foramen ovale and pulmonary embolism: A case report

Huang YX, Chen Y, Cao Y, Qiu YG, Zheng JY, Li TC

4908 Therapeutic experience of an 89-year-old high-risk patient with incarcerated cholecystolithiasis: A case report and literature review

Zhang ZM, Zhang C, Liu Z, Liu LM, Zhu MW, Zhao Y, Wan BJ, Deng H, Yang HY, Liao JH, Zhu HY, Wen X, Liu LL, Wang M, Ma XT, Zhang MM, Liu JJ, Liu TT, Huang NN, Yuan PY, Gao YJ, Zhao J, Guo XA, Liao F, Li FY, Wang XT, Yuan RJ,

4917 Woven coronary artery: A case report

Wei W, Zhang Q, Gao LM

4922 Idiopathic multicentric Castleman disease with pulmonary and cutaneous lesions treated with tocilizumab: A case report

Han PY, Chi HH, Su YT

4930 Perianorectal abscesses and fistula due to ingested jujube pit in infant: Two case reports

Liu YH, Lv ZB, Liu JB, Sheng QF

4938 Forniceal deep brain stimulation in severe Alzheimer's disease: A case report

Lin W, Bao WQ, Ge JJ, Yang LK, Ling ZP, Xu X, Jiang JH, Zuo CT, Wang YH

4946 Systemic autoimmune abnormalities complicated by cytomegalovirus-induced hemophagocytic lymphohistiocytosis: A case report

Miao SX, Wu ZQ, Xu HG

4953 Nasal mucosa pyoderma vegetans associated with ulcerative colitis: A case report

Yu SX, Cheng XK, Li B, Hao JH

4958 Amiodarone-induced hepatotoxicity - quantitative measurement of iodine density in the liver using dualenergy computed tomography: Three case reports

Lv HJ, Zhao HW

4966 Multisystem involvement Langerhans cell histiocytosis in an adult: A case report

Wang BB, Ye JR, Li YL, Jin Y, Chen ZW, Li JM, Li YP

4975 New mutation in *EPCAM* for congenital tufting enteropathy: A case report

Zhou YQ, Wu GS, Kong YM, Zhang XY, Wang CL

4981 Catastrophic vertebral artery and subclavian artery pseudoaneurysms caused by a fishbone: A case report

Huang W, Zhang GQ, Wu JJ, Li B, Han SG, Chao M, Jin K

4986 Anastomosing hemangioma arising from the left renal vein: A case report

Zheng LP, Shen WA, Wang CH, Hu CD, Chen XJ, Shen YY, Wang J

4993 Bladder perforation caused by long-term catheterization misdiagnosed as digestive tract perforation: A

Ш

case report

Wu B, Wang J, Chen XJ, Zhou ZC, Zhu MY, Shen YY, Zhong ZX

World Journal of Clinical Cases

Contents

Semimonthly Volume 8 Number 20 October 26, 2020

4999	Primary pulmonary plasmacytoma accompanied by overlap syndrome: A case report and review of the literature
	Zhou Y, Wang XH, Meng SS, Wang HC, Li YX, Xu R, Lin XH
5007	Gastrointestinal stromal tumor metastasis at the site of a totally implantable venous access port insertion: A rare case report
	Yin XN, Yin Y, Wang J, Shen CY, Chen X, Zhao Z, Cai ZL, Zhang B
5013	Massive gastrointestinal bleeding caused by a Dieulafoy's lesion in a duodenal diverticulum: A case report
	He ZW, Zhong L, Xu H, Shi H, Wang YM, Liu XC
5019	Plastic bronchitis associated with Botrytis cinerea infection in a child: A case report
	Liu YR, Ai T
5025	Chest, pericardium, abdomen, and thigh penetrating injury by a steel rebar: A case report
	Yang XW, Wang WT
5030	Monocular posterior scleritis presenting as acute conjunctivitis: A case report
	Li YZ, Qin XH, Lu JM, Wang YP
5036	Choriocarcinoma with lumbar muscle metastases: A case report
	Pang L, Ma XX
5042	Primary chondrosarcoma of the liver: A case report
	Liu ZY, Jin XM, Yan GH, Jin GY
5049	Successful management of a tooth with endodontic-periodontal lesion: A case report
	Alshawwa H, Wang JF, Liu M, Sun SF
5057	Rare imaging findings of hypersensitivity pneumonitis: A case report
	Wang HJ, Chen XJ, Fan LX, Qi QL, Chen QZ
5062	Effective administration of cranial drilling therapy in the treatment of fourth degree temporal, facial and upper limb burns at high altitude: A case report

Shen CM, Li Y, Liu Z, Qi YZ

IX

ABOUT COVER

Peer-reviewer of World Journal of Clinical Cases, Dr. Aleem Ahmed Khan is a Distinguished Scientist and Head of The Central Laboratory for Stem Cell Research and Translational Medicine, Centre for Liver Research and Diagnostics, Deccan College of Medical Sciences, Kanchanbagh, Hyderabad (India). Dr. Aleem completed his Doctorate from Osmania University, Hyderabad in 1998 and has since performed pioneering work in the treatment of acute liver failure and decompensated cirrhosis using hepatic stem cell transplantation. During his extensive research career he supervised 10 PhD students and published > 150 research articles, 7 book chapters, and 2 patents. His ongoing research involves developing innovative technologies for organ regeneration and management of advanced cancers. (L-Editor: Filipodia)

AIMS AND SCOPE

The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

INDEXING/ABSTRACTING

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

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ji-Hong Liu; Production Department Director: Xiang Li; Editorial Office Director: Jin-Lei Wang.

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, Bao-Gan Peng

EDITORIAL BOARD MEMBERS

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

PUBLICATION DATE

October 26, 2020

COPYRIGHT

© 2020 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

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

GUIDELINES FOR ETHICS DOCUMENTS

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

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

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

PUBLICATION ETHICS

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

PUBLICATION MISCONDUCT

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

ARTICLE PROCESSING CHARGE

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

STEPS FOR SUBMITTING MANUSCRIPTS

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

ONLINE SUBMISSION

https://www.f6publishing.com

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



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

World J Clin Cases 2020 October 26; 8(20): 5057-5061

DOI: 10.12998/wjcc.v8.i20.5057

ISSN 2307-8960 (online)

CASE REPORT

Rare imaging findings of hypersensitivity pneumonitis: A case report

Hong-Juan Wang, Xiao-Jun Chen, Lin-Xia Fan, Qiao-Ling Qi, Qi-Zhang Chen

ORCID number: Hong-Juan Wang 0000-0001-7932-5331; Xiao-Jun Chen 0000-0002-5766-9341; Lin-Xia Fan 0000-0003-1211-3144; Qiao-Ling Qi 0000-0003-2175-1244; Qi-Zhang Chen 0000-0002-9623-8683.

Author contributions: Wang HJ and Qi QL were the patient's doctors, reviewed the literature, and contributed to manuscript drafting; Chen QZ, Chen XJ, Fan LX, and Wang HJ analyzed and interpreted the imaging findings; Chen QZ and Fan LX were responsible for the revision of the manuscript for important intellectual content; all authors issued final approval for the version to be submitted.

Supported by the Scientific Research Project of Gansu Provincial People's Hospital, No. 2019-290.

Informed consent statement:

Informed consent was obtained for the patient for this case report.

Conflict-of-interest statement: We declare that we have no conflict of interest to disclose.

CARE Checklist (2016) statement:

We 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 Hong-Juan Wang, Xiao-Jun Chen, Lin-Xia Fan, Qi-Zhang Chen, Department of Respiratory Medicine, Gansu Provincial People's Hospital, Lanzhou 730000, Gansu Province, China

Qiao-Ling Qi, Department of Respiratory Medicine, The First People's Hospital of Zhenyuan County, Lanzhou 730000, Gansu Province, China

Corresponding author: Hong-Juan Wang, PhD, Doctor, Department of Respiratory Medicine, Gansu Provincial People's Hospital, No. 204 Donggang West Road, Lanzhou 730000, Gansu Province, China. coldrain 591@163.com

Abstract

BACKGROUND

Hypersensitivity pneumonitis (HP) is an immune-mediated syndrome caused by allergen inhalation. High-resolution computed tomography (HRCT) of HP may show diffuse ground-glass opacity, centrilobular ground-glass nodules, areas of air-trapping, thin-walled cysts, or fibrotic changes.

CASE SUMMARY

A 47-year-old male patient went to the hospital complaining of cough and gradual aggravation of shortness of breath. HRCT of the lung showed that multiple nodules and ground-glass high-density shadows were present in both lungs. In addition, circular high-density shadows of various sizes were widely distributed in both lungs with relatively normal lung markings inside them. But other tests did not have a positive finding that can clarify the cause. Therefore, the patient underwent a lung biopsy. The pathological results showed that the lesions tended to be HP. After 4 mo of follow-up, the lesions in the patient's lungs were absorbed spontaneously, and the symptoms of cough and shortness of breath have disappeared. The review results suggested that the patient's disease was self-healing, which was consistent with the characteristics of HP.

For some patients with HP, abnormal HRCT findings, such as the lesions in the lungs, can be absorbed on their own, which is an important clue in the diagnosis of the disease. Early diagnosis by lung biopsy is necessary when antigen exposure

Key Words: Hypersensitivity pneumonitis; High-resolution computed tomography; Selfhealing; Circular high-density images; Case report

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



WJCC https://www.wjgnet.com

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

Manuscript source: Unsolicited manuscript

Received: July 16, 2020 Peer-review started: July 16, 2020 First decision: August 21, 2020 Revised: August 22, 2020 Accepted: September 5, 2020 Article in press: September 5, 2020 Published online: October 26, 2020

P-Reviewer: Bordin DS S-Editor: Yan IP L-Editor: Wang TQ P-Editor: Ma YJ



Core Tip: We report a case of hypersensitivity pneumonitis (HP) with special highresolution computed tomography (HRCT) findings. Circular high-density shadows of various sizes were widely distributed in both lungs with lung markings inside them. For some patients with HP, abnormal HRCT findings, such as the lesions in the lungs, can be absorbed on their own, which is an important clue in the diagnosis of the disease

Citation: Wang HJ, Chen XJ, Fan LX, Qi QL, Chen QZ. Rare imaging findings of hypersensitivity pneumonitis: A case report. World J Clin Cases 2020; 8(20): 5057-5061

URL: https://www.wjgnet.com/2307-8960/full/v8/i20/5057.htm

DOI: https://dx.doi.org/10.12998/wjcc.v8.i20.5057

INTRODUCTION

The diagnosis of hypersensitivity pneumonitis (HP) requires a combination of medical history, clinical manifestations, radiological findings, pulmonary function, bronchoalveolar lavage (BAL) findings, and histopathological characteristics^[1]. However, HP is sometimes difficult to diagnose without a clear history of specific allergen exposure. High-resolution computed tomography (HRCT) is recommended for the diagnosis of HP. For patients suspected of having HP who have no known antigen exposure and whose HRCT findings and other examination lack definitive results, early diagnosis by lung biopsy is necessary^[2].

CASE PRESENTATION

Chief complaints

A 47-year-old male patient went to the hospital complaining of cough and gradual aggravation of shortness of breath.

History of present illness

One month before, he once had mild fever for 1 wk (Tmax < 37.5°C). The patient disclosed that he used an air humidifier 1 mo before the onset of symptoms, but no other specific antigen exposure history was found.

History of past illness

The patient had a free previous medical history.

Physical examination

Before bronchoscopy, the patient's temperature was 36.7 °C, heart rate was 80 bpm, respiratory rate was 22 breaths per minute, blood pressure was 117/69 mmHg, and oxygen saturation in room air was 98%.

Laboratory examinations

Further laboratory examination revealed an antinuclear antibody titer of 1:80, erythrocyte sedimentation rate (ESR) of 25 mm/h, immunoglobulin G level (IgG) of 5.67 g/L, and cytokeratin 19 fragment of 2.72 ng/mL. The results of blood gas analysis, blood count, procalitonin, interleukin 6 (IL-6), G test, GM test, IgE, eosinophil count, T-SPOT, tuberculosis antibody, and rheumatoid factor were all within normal limits.

Imaging examinations

HRCT of the lung showed that multiple nodules and ground-glass high-density shadows were present in both lungs (Figure 1A). In addition, circular high-density shadows of various sizes were widely distributed in both lungs with relatively normal lung markings inside them (Figure 1B).

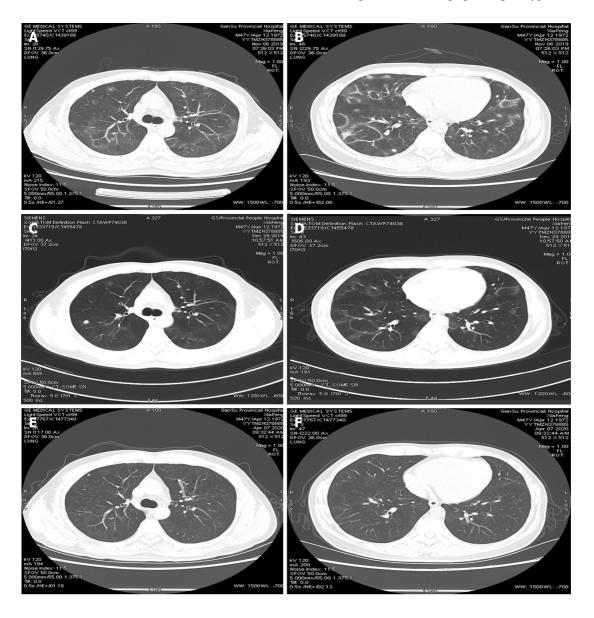


Figure 1 High-resolution computed tomography images. A: High-resolution computed tomography (HRCT) showed multiple nodules and ground-glass shadows in both lungs; B: Circular high density shadows of various sizes were widely distributed in both lungs with lung markings inside them; C: HRCT showed that the original nodules and ground-glass shadows were significantly absorbed at 1 mo, but a new nodule was found in the right upper lobe; D: Circular high density shadows were significantly absorbed at 1 mo; E: HRCT showed that the original nodules and ground-glass shadows were significantly absorbed; F: HRCT showed that the original circular high density shadows were significantly absorbed.

Bronchoscopic examinations

Bronchoscopy revealed no obvious abnormalities. Acid-fast bacillus was identified by smear of brush biopsy, whereas Gene Xpert and Mycobacterium liquid culture were both negative in the BAL fluid. No acid-fast bacillus was found in three other sputum smears.

Further diagnostic work-up

The patient had no classical symptoms of tuberculosis, such as chronic cough with blood-containing mucus, fever, night sweats, and weight loss, and the imaging findings were not consistent with tuberculosis. Thus, the acid-fast bacilli detected by bronchoscopy may have been caused by laboratory contamination. The patient was transferred to another teaching Hospital (China-Japan Friendship Hospital) for further examination.

Further examination including acid-fast staining, Gene Xpert, and Mycobacterium liquid culture of BAL lavage and lung biopsy specimens revealed no evidence of tuberculosis and other specific pathogens. Pulmonary function test results suggested a mild decrease in diffusion (DLCO SB 75.8%). The pathological results showed that the alveolar interval was slightly widened. A high level of lymphocyte infiltration was

seen in the interval and around the small blood vessels. Few loose fibroblast clusters were seen in the focal alveolar cavity. Small granuloma formation was observed around individual small blood vessels. Immunohistochemical results were as follows: CK7 (+), KP-1(+), CD3 (+), and CD20 (L26) (+). Special staining results were as follows: Masson (+), PAS (-), acid fast (-), and silver stain (-). An increase in the proportion of lymphocytes and neutrophils was observed in the alveolar lavage fluid, which did not show any growth of pathogenic bacteria. According to the above mentioned examination results, the occurrence of HP was highly possible. Given that the symptoms of the patient were not severe and acid-fast bacilli were once positive, corticosteroid was not administered, and getting rid of possible allergens and a return visit were requested.

FINAL DIAGNOSIS

The final diagnosis of the presented case was HP.

TREATMENT

Given that the symptoms of the patient were not severe and acid-fast bacilli were once positive, corticosteroid was not administered.

OUTCOME AND FOLLOW-UP

One month later, the patient underwent lung HRCT and pulmonary function test. HRCT displayed that the original ground glass opacity and nodular shadows were thinner than before (Figure 1C and D). The spirometry results showed that the diffusion function of the lungs returned to normal. The symptoms of cough and shortness of breath have disappeared. The review results suggested that the patient's disease was self-healing, which was consistent with the characteristics of HP.

Three months later, the patient underwent lung HRCT again, which revealed that the lesions in the lungs have been absorbed (Figure 1E and F). All these finding contributed to the confirmation of HP diagnosis.

DISCUSSION

HP is a complex syndrome involving diffuse parenchymal lung disease caused by inhalation of and sensitization to an antigen[3]. However, a clear history of allergen exposure may not exist for patients with HP, especially for those with subacute and chronic HP. A large number of substances can cause HP when inhaled as fine particles. HP is sometimes difficult to diagnose if exposure to an antigenic agent is unknown. In this case, it is necessary to combine clinical manifestations, imaging examination results, fiberoptic bronchoscopic findings, and even pathological examination to achieve a diagnosis.

HRCT is recommended for the diagnosis of HP. The HRCT patterns typical for HP include the following: A centrilobular diffuse micronodular pattern, ground-glass opacification, mosaic attenuation, areas of air-trapping, thin-walled cysts, and fibrosis (reticulation, architectural distortion, and traction bronchiectasis with or without honeycomb change)[4-6]. This patient's CT results showed circular high-density shadows of various sizes, multiple nodules, and ground-glass high-density shadows in both lungs. These results may be due to vasodilation caused by allergies. However, we cannot yet explain why vasodilation was distributed in a circular shape. This pattern is not consistent with those of common HP. These CT findings need to be distinguished from those of cryptogenic organizing pneumonia (COP). Thus, the patient underwent CT-guided needle biopsy of the lung *via* rigid bronchoscopy under CT guidance.

In acute HP, histopathology shows peribronchovascular fibrin deposition and interstitial accumulation of neutrophils, lymphocytes, plasma cells, and macrophages. The histologic changes of subacute HP consist of a classic triad of lymphocytic interstitial infiltrate, cellular bronchiolitis, and poorly formed non-necrotizing granulomas. Chronic HP often manifests fibrotic changes, such as honeycombing and reticular opacities[3,7]. This case's pathological characteristics are consistent with subacute HP. However, we have to emphasize that histopathological evaluation is only recommended for cases in which a diagnosis cannot be reached by other means, especially when information on possible antigen exposure is lacking.

Acid-fast bacillus was found by smear of brush biopsy in the first bronchoscopic examination, but no growth of Mycobacterium tuberculosis and non-tuberculous mycobacteria was observed after the culture. Other tuberculosis-related tests showed negative results, and the lung lesions were absorbed on their own. The initial bronchoscopic examination performed on the patient was the first examination performed in the bronchoscopy room on that day, and the specimen was immediately taken to the laboratory for examination. Therefore, we considered that the detection of acid-fast bacilli was caused by laboratory contamination. For patients with HP, early diagnosis and corticosteroid therapy might prevent the progression of the disease to lung fibrosis. Therefore, it is important to reduce laboratory contamination and provide accurate reference results for the clinician.

CONCLUSION

We report a case of HP without a clear history of allergen exposure, which has special imaging findings of HP. For some patients with HP, abnormal HRCT findings, such as the lesions in the lungs, can be absorbed on their own, which is an important clue in the diagnosis of the disease. Early diagnosis by lung biopsy is necessary when antigen exposure is unknown.

REFERENCES

- Vasakova M, Selman M, Morell F, Sterclova M, Molina-Molina M, Raghu G. Hypersensitivity Pneumonitis: Current Concepts of Pathogenesis and Potential Targets for Treatment. Am J Respir Crit Care Med 2019; 200: 301-308 [PMID: 31150272 DOI: 10.1164/rccm.201903-0541PP]
- Leone PM, Richeldi L. Current Diagnosis and Management of Hypersensitivity Pneumonitis. Tuberc Respir Dis (Seoul) 2020; 83: 122-131 [PMID: 32185914 DOI: 10.4046/trd.2020.0012]
- Magee AL, Montner SM, Husain A, Adegunsoye A, Vij R, Chung JH. Imaging of Hypersensitivity Pneumonitis. Radiol Clin North Am 2016; 54: 1033-1046 [PMID: 27719974 DOI: 10.1016/j.rcl.2016.05.013]
- Sahin H, Kaproth-Joslin K, Hobbs SK. Hypersensitivity Pneumonitis. Semin Roentgenol 2019; 54: 37-43 [PMID: 30684996 DOI: 10.1053/j.ro.2018.12.004]
- Jedrych ME, Szturmowicz M, Bestry I, Kuś J. [Hypersensitivity pneumonitis: Diagnostic criteria, treatment, prognosis and prevention]. Med Pr 2016; 67: 517-527 [PMID: 27623832 DOI: 10.13075/mp.5893.00406]
- Vasakova M, Morell F, Walsh S, Leslie K, Raghu G. Hypersensitivity Pneumonitis: Perspectives in Diagnosis and Management. Am J Respir Crit Care Med 2017; 196: 680-689 [PMID: 28598197 DOI: 10.1164/rccm.201611-2201PP]
- Torres PP, Moreira MA, Silva DG, da Gama RR, Sugita DM, Moreira MA. High-resolution computed tomography and histopathological findings in hypersensitivity pneumonitis: a pictorial essay. Radiol Bras 2016; 49: 112-116 [PMID: 27141134 DOI: 10.1590/0100-3984.2014.0062]

5061



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

