

World Journal of *Clinical Cases*

World J Clin Cases 2022 April 26; 10(12): 3639-3968



EVIDENCE REVIEW

- 3639 Tilt and decentration with various intraocular lenses: A narrative review
Chen XY, Wang YC, Zhao TY, Wang ZZ, Wang W

REVIEW

- 3647 Role of zonula occludens in gastrointestinal and liver cancers
Ram AK, Vairappan B

MINIREVIEWS

- 3662 Pathophysiological mechanisms of hepatic stellate cells activation in liver fibrosis
Garbuzenko DV

ORIGINAL ARTICLE**Retrospective Cohort Study**

- 3677 Predictors of unfavorable outcome at 90 days in basilar artery occlusion patients
Chiu YC, Yang JL, Wang WC, Huang HY, Chen WL, Yen PS, Tseng YL, Chen HH, Tsai ST

Retrospective Study

- 3686 Role of multidetector computed tomography in patients with acute infectious colitis
Yu SJ, Heo JH, Choi EJ, Kim JH, Lee HS, Kim SY, Lim JH
- 3698 Efficacy and prognostic factors of neoadjuvant chemotherapy for triple-negative breast cancer
Ding F, Chen RY, Hou J, Guo J, Dong TY
- 3709 Relationship between subgroups of central and lateral lymph node metastasis in clinically node-negative papillary thyroid carcinoma
Zhou J, Li DX, Gao H, Su XL
- 3720 Nomogram to predict postoperative complications in elderly with total hip replacement
Tan XJ, Gu XX, Ge FM, Li ZY, Zhang LQ
- 3729 Flap failure prediction in microvascular tissue reconstruction using machine learning algorithms
Shi YC, Li J, Li SJ, Li ZP, Zhang HJ, Wu ZY, Wu ZY

Observational Study

- 3739 Surgery in platinum-resistant recurrent epithelial ovarian carcinoma
Zhao LQ, Gao W, Zhang P, Zhang YL, Fang CY, Shou HF

- 3754 Anorectal dysfunction in patients with mid-low rectal cancer after surgery: A pilot study with three-dimensional high-resolution manometry

Pi YN, Xiao Y, Wang ZF, Lin GL, Qiu HZ, Fang XC

Randomized Controlled Trial

- 3764 Effect of wrist-ankle acupuncture on propofol dosage during painless colonoscopy: A randomized controlled prospective study

He T, Liu C, Lu ZX, Kong LL, Li Y, Xu Z, Dong YJ, Hao W

META-ANALYSIS

- 3773 Melatonin intervention to prevent delirium in hospitalized patients: A meta-analysis

You W, Fan XY, Lei C, Nie CC, Chen Y, Wang XL

- 3787 Risk factors for hospital readmissions in pneumonia patients: A systematic review and meta-analysis

Fang YY, Ni JC, Wang Y, Yu JH, Fu LL

CASE REPORT

- 3801 Anti-programmed death 1 antibody in the treatment of coexistent *Mycobacterium fortuitum* and lung cancer: A case report

Zhang CC, Chen P

- 3808 Acute pancreatitis-induced thrombotic thrombocytopenic purpura: A case report

Wang CH, Jin HF, Liu WG, Guo Y, Liu Z

- 3814 Successful management of life-threatening aorto-esophageal fistula: A case report and review of the literature

Zhong XQ, Li GX

- 3822 Isolated coagulopathy without classic CRAB symptoms as the initial manifestation of multiple myeloma: A case report

Zhang Y, Xu F, Wen JJ, Shi L, Zhou QL

- 3828 Evaluation of intracoronary function after reduction of ventricular rate by esmolol in severe stenotic myocardial bridge: A case report

Sun LJ, Yan DG, Huang SW

- 3834 Pediatric living donor liver transplantation using liver allograft after *ex vivo* backtable resection of hemangioma: A case report

Li SX, Tang HN, Lv GY, Chen X

- 3842 Kimura's disease in soft palate with clinical and histopathological presentation: A case report

Li W

- 3849 Combined targeted therapy and immunotherapy in anaplastic thyroid carcinoma with distant metastasis: A case report

Ma DX, Ding XP, Zhang C, Shi P

- 3856** Successful multimodality treatment of metastatic gallbladder cancer: A case report and review of literature
Zhang B, Li S, Liu ZY, Peiris KGK, Song LF, Liu MC, Luo P, Shang D, Bi W
- 3866** Ischemic colitis after receiving the second dose of a COVID-19 inactivated vaccine: A case report
Cui MH, Hou XL, Liu JY
- 3872** Cryoballoon pulmonary vein isolation and left atrial appendage occlusion prior to atrial septal defect closure: A case report
Wu YC, Wang MX, Chen GC, Ruan ZB, Zhang QQ
- 3879** Surgical treatment for a combined anterior cruciate ligament and posterior cruciate ligament avulsion fracture: A case report
Yoshida K, Hakozaki M, Kobayashi H, Kimura M, Konno S
- 3886** Successful robot-assisted partial nephrectomy for giant renal hilum angiomyolipoma through the retroperitoneal approach: A case report
Luo SH, Zeng QS, Chen JX, Huang B, Wang ZR, Li WJ, Yang Y, Chen LW
- 3893** Cryptococcal antigen testing of lung tissue homogenate improves pulmonary cryptococcosis diagnosis: Two case reports
Wang WY, Zheng YL, Jiang LB
- 3899** Combined use of extracorporeal membrane oxygenation with interventional surgery for acute pancreatitis with pulmonary embolism: A case report
Yan LL, Jin XX, Yan XD, Peng JB, Li ZY, He BL
- 3907** Dynamic navigation system-guided trans-inferior alveolar nerve implant placement in the atrophic posterior mandible: A case report
Chen LW, Zhao XE, Yan Q, Xia HB, Sun Q
- 3916** Anti-glomerular basement membrane disease with IgA nephropathy: A case report
Guo C, Ye M, Li S, Zhu TT, Rao XR
- 3923** Amniotic membrane transplantation in a patient with impending perforated corneal ulcer caused by *Streptococcus mitis*: A case report and review of literature
Hsiao FC, Meir YJJ, Yeh LK, Tan HY, Hsiao CH, Ma DHK, Wu WC, Chen HC
- 3930** Steriod for Autoimmune pancreatitis complicating by gastric varices: A case report
Hao NB, Li X, Hu WW, Zhang D, Xie J, Wang XL, Li CZ
- 3936** Antithrombotic treatment strategy for patients with coronary artery ectasia and acute myocardial infarction: A case report
Liu RF, Gao XY, Liang SW, Zhao HQ
- 3944** Mesh plug erosion into the small intestine after inguinal hernia repair: A case report
Xie TH, Wang Q, Ha SN, Cheng SJ, Niu Z, Ren XX, Sun Q, Jin XS
- 3951** Recurrence of infectious mononucleosis in adults after remission for 3 years: A case report
Zhang XY, Teng QB

3959 Vertical direction impaction of kissing molars: A case report

Wen C, Jiang R, Zhang ZQ, Lei B, Yan YZ, Zhong YQ, Tang L

LETTER TO THE EDITOR

3966 Comment on “Outcomes of different minimally invasive surgical treatments for vertebral compression fractures: An observational study”

Ma L, Luo ZW, Sun YY

ABOUT COVER

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Kimura's disease in soft palate with clinical and histopathological presentation: A case report

Wu Li

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Abstract

BACKGROUND

Kimura's disease is an inflammatory disease that is usually found in the deep lymph nodes of the head and neck. While rare, it is most frequently seen in young men. The oral cavity and salivary glands may also be involved. There are no reports on tumor occurring in soft palate. We have encountered a case of Kimura's disease in the soft palate of an elderly woman.

CASE SUMMARY

A 63-year-old elderly Chinese woman with a slowly growing mass in the upper jaw was referred to our service. A biopsy to the mass was taken after the patient was referred to our service. The tumor was diagnosed as benign. We performed cervical lymph node puncture and partial surgical excision of the lesion. The tumor, which showed signs of marked follicular hyperplasia with follicles surrounded by eosinophils and lymphocytes, was located within the soft palate. Kimura's disease was diagnosed after histopathologic examination of the resected tissue. The etiology of Kimura's disease is not fully understood. One current model includes T-cells involvement with cytokines also playing a role. The patient was without evidence for recurrence of partially resected area 6 mo later. This report shows that Kimura's disease is not limited to the head, neck, and salivary gland lymph nodes. We present a case of a tumor in soft palate. This location adds another possible site for consideration during the differential diagnoses of a slowly growing mass.

CONCLUSION

The present case illustrates a characteristic description of Kimura's disease. This case highlights the main differences between Kimura's disease and angiolymphoid hyperplasia with eosinophilia.

Key Words: Kimura's disease; Soft palate; Clinical manifestations; Histopathological presentation; Case report

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Core Tip: Kimura's disease is an inflammatory disease mainly seen in young men and is most often found in the deep lymph nodes of the head and neck. We report a unique case of Kimura's disease located in the soft palate of an old woman.

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INTRODUCTION

Kimura's disease affects the deep cervical tissues with benign inflammation and involves the head, neck, and salivary gland lymph nodes. The oral cavity is sometimes involved. There are no reports on tumors occurring in the soft palate. This condition was first reported by Kim and Szeto[1] in 1937 and further characterized in 1948 by Kimura[2]. Young Asian men (especially in China and Japan) are most commonly affected and the peak age of onset is in the 30s[3]. The most common laboratory findings are elevated serum immunoglobulin E (IgE) levels accompanied by eosinophilia[3,4]. In this report we review a rare case of Kimura's disease in the upper jaw in an elderly woman.

CASE PRESENTATION

The case in our report was a 63-year-old woman farmer of the Han race who is 1.6-m in height and 40-kg in weight.

Chief complaints

The patient was admitted to our hospital with a growing mass in her upper jaw.

History of present illness

The tumor developed over a period of 4 mo and was still growing slowly. The patient did not present with any pain or any sensory loss in the affected area. She did report discomfort in the upper jaw while eating, which impaired her diet. She denied trauma at the site.

History of past illness

Her medical history revealed chronic nephritis, bilateral submandibular lymphadenectomy and weight loss. No other comorbidities or relevant diseases were observed in her family.

Physical examination

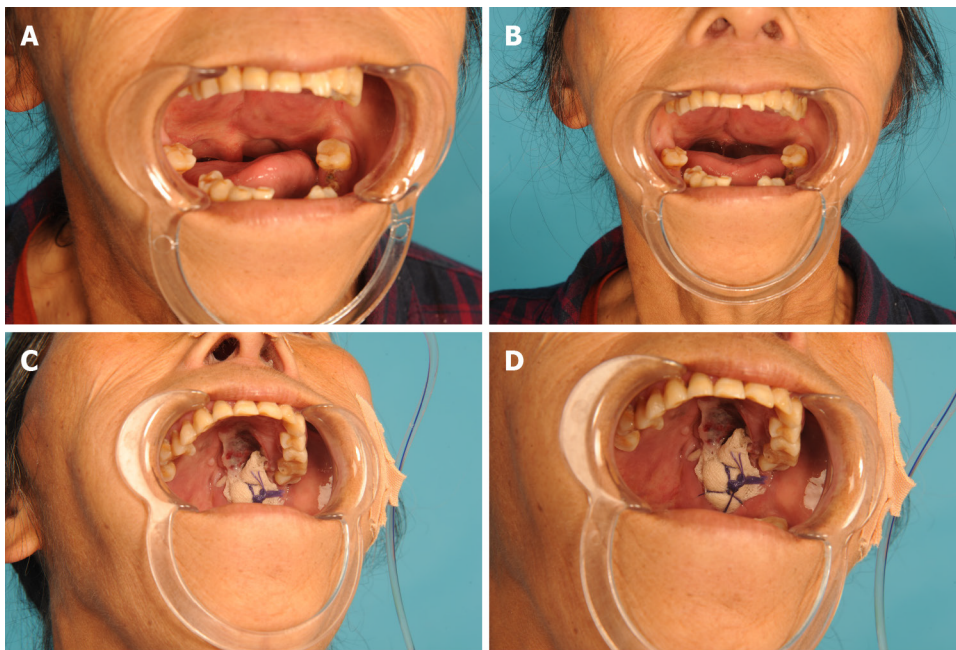
Physical examination discovered a red, intact mass that involved nearly the entire soft palate. The tumor exhibited bilateral symmetry in the upper jaw (Figure 1A and B). The patient's oral hygiene was poor, with missing teeth in regions 31-32, 35-36, 38, 45-46, and 48.

Laboratory examinations

The absolute value of eosinophils was $2.94 \times 10^9/L$, and the percentage of eosinophils was 39.50%. Blood tests indicated elevated peripheral blood eosinophilia. Renal function was normal without eosinophilia.

Imaging examinations

A magnetic resonance imaging (MRI) scan revealed a tumor in the upper jaw with bilateral symmetry and a size of 5 cm × 2 cm (Figure 2A-D). The soft palate was enlarged and the palatine tonsils exhibited swelling to the third degree. The tumor had a high retention of contrast agent although it did not appear to be a hemangioma. The tumor mainly infiltrated the soft tissue, without osseous destruction. There were enlarged cervical lymph nodes on both sides with multiple nodes between 1 and 2 cm in diameter. They were identifiable and symmetrical without suspicion of metastasis. The findings from radiology



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Figure 1 Red, intact mass affecting nearly the entire soft palate. The tumor exhibited bilateral symmetry in the upper right jaw. A: Side view; B: Front view; C: Distant view; D: Close view. A partial tumor resection was performed, and the defect was packed and covered by petroleum jelly.

are consistent with a malignant lymphoma or sarcoma. A subsequent computed tomography (CT) was used to visualize the lesion (Figure 2E and F). Following contrast agent administration, the tumor was not enhanced compared to the adjacent tissues and it appeared hypodense. The cervical vessels appeared normal and had no obvious connection with the tumor. The lymph nodes failed to show characteristics of metastases. The CT results were consistent with a sarcoma or with a malignant lymphoma. Further examination of the patient failed to find evidence of any distant metastatic sites.

Preoperative diagnosis

A biopsy of the mass was performed after the patient was referred to our group, and the lesion was diagnosed as a benign tumor. We recommended cervical lymph node puncture and partial surgical excision of the lesion. Cervical lymph node biopsy by puncture showed visible lymphocytes. With the help of the Davis' opener, we removed part of the tumor located in the left soft palate. After complete hemostasis, the wound was packed with gauze and wrapped under pressure (Figure 1C and D). Multiple biopsies were performed during surgery, and examined after immediate sectioning.

Histopathology and immunohistochemical findings

The results of histology and immunohistochemistry were consistent with angiomatosis with an inflammatory pseudotumor and many eosinophil cells. We found no evidence of malignancy. Final histopathologic examination diagnosed angiomatosis with inflammatory cells (Figure 3).

FINAL DIAGNOSIS

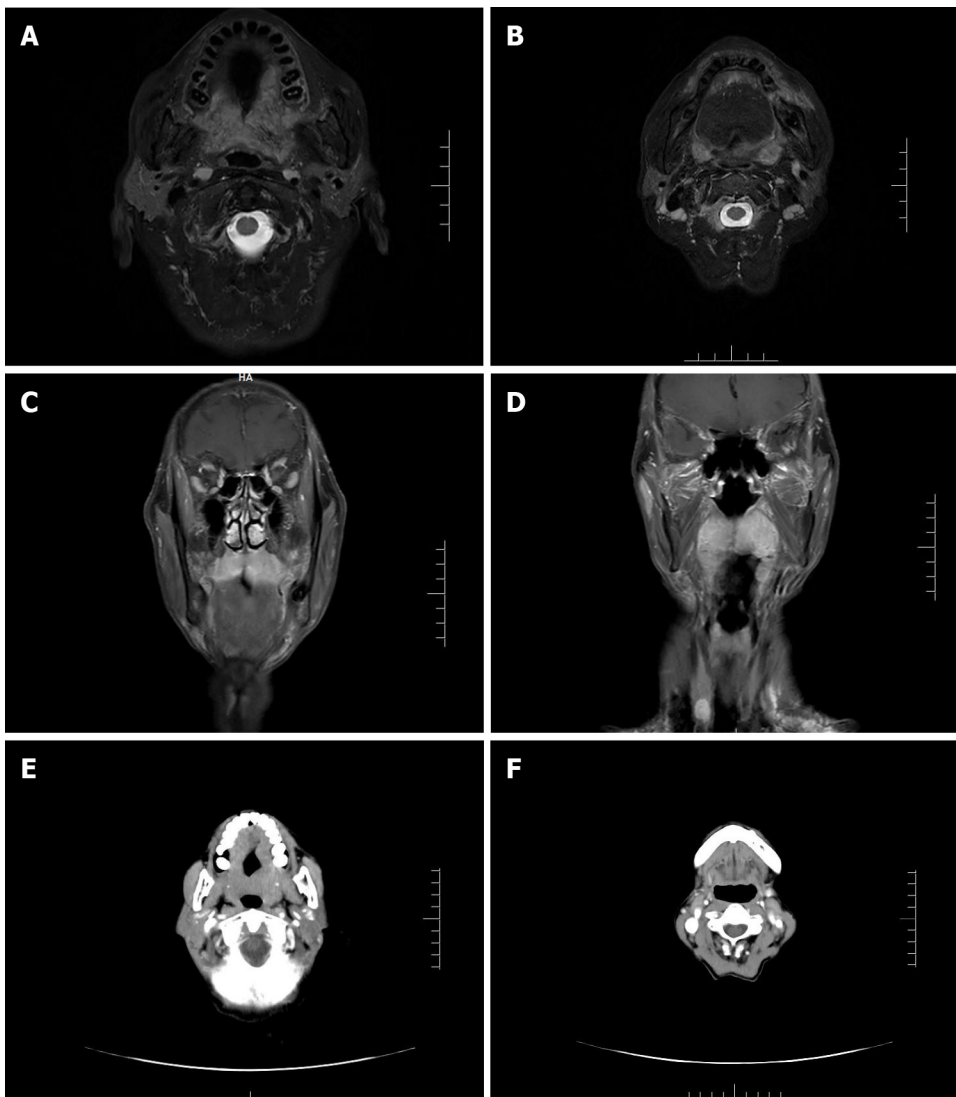
The eosinophilic inflammation determined our final diagnosis of Kimura's disease.

TREATMENT

The discomfort of eating was alleviated, and tumor growth was suppressed. We recommend patient follow-up and close observation.

OUTCOME AND FOLLOW-UP

Our patient was under physical examination 6 mo after resection, which resolved without evidence of recurrence of the partially resected area.



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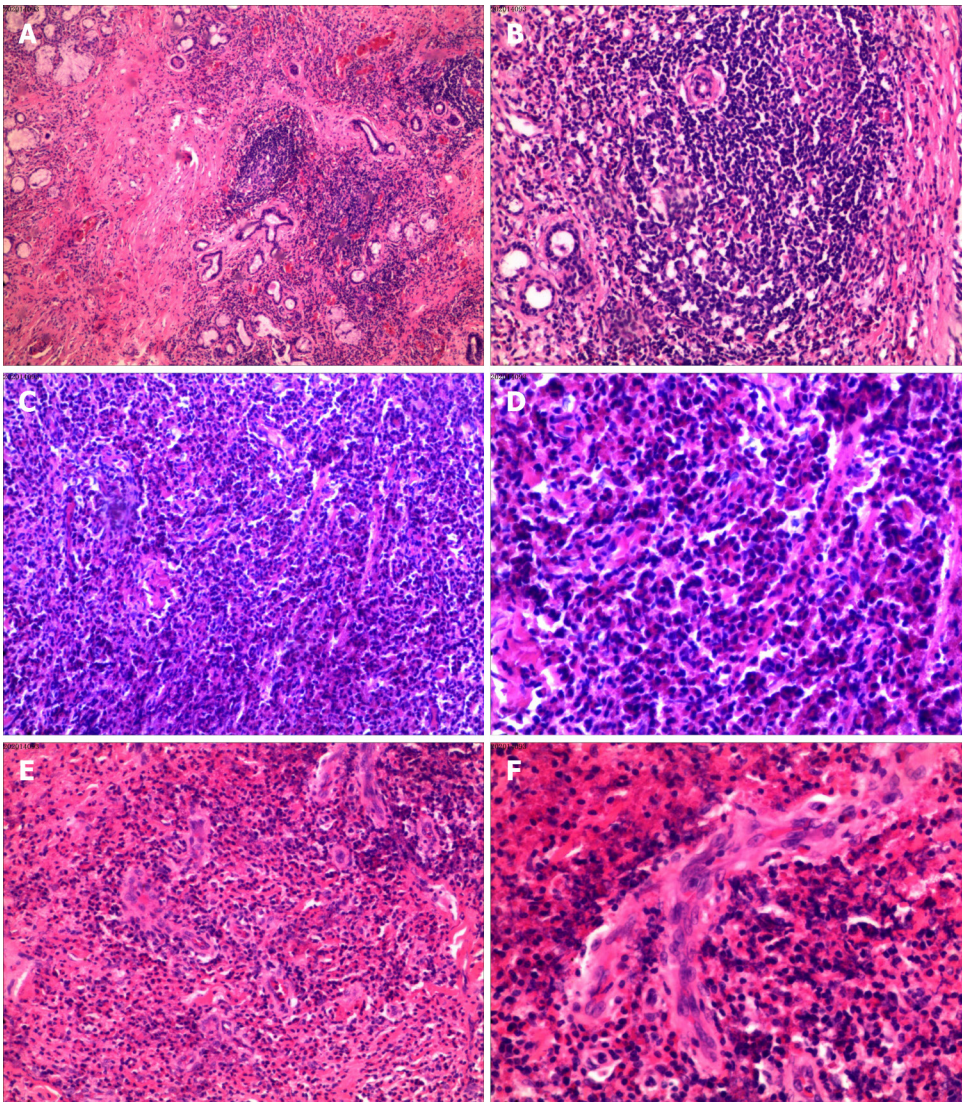
Figure 2 Magnetic resonance imaging scan revealed a tumor in the upper jaw exhibiting bilateral symmetry and 5 cm × 2 cm in size. A: Horizontal plane of the upper alveolar bone; B: Horizontal plane of the lower alveolar bone; C: Coronal plane of the nasal cavity and sinuses; D: Coronal plane of nasopharynx and oropharynx. A subsequent computed tomography showed the same lesion in the upper jaw; E: Horizontal plane of the upper alveolar bone; F: Horizontal plane of the lower alveolar bone.

DISCUSSION

Kim and Szeto initially described the tumor in 1937 and Kimura's disease was more widely recognized after the 1948 report of a systematic examination by Kimura[2]. This is a rare disease that can present as angiolymphoid hyperplasia accompanied by lymphadenopathy, elevated serum IgE, and eosinophilia observed in the peripheral blood[5]. Kimura's disease is usually seen in men of Asian extraction in their third decade of life[6]. Kimura's disease is rare and little reliable information on the incidence of Kimura's disease is available. The disease is normally associated with deep subcutaneous tissue or with the patient's salivary glands[5]. However, our patient had a lesion in the soft palate of the upper jaw. The soft palate can also originate the tumor, although two cases of Kimura's disease have been reported to arise from the hard palate[5,7]. Other organs that can be affected are the kidney[8], orbital structures [9], and there are reports of axillary or inguinal lymph nodes being affected[3].

High serum IgE levels often a feature of Kimura's disease[10]. Reports have suggested that normal and moderately elevated levels of IgE may have prognostic significance and help predict the aggressiveness of the tumor[6]. Our patient failed to show elevated serum IgE levels and she was disease free for more than four months after surgery; consistent with low IgE levels associating with less aggressive disease.

Differential diagnosis of this patient required us to consider other lymphatic diseases; angioimmunoblastic T-cell lymphoma, Hodgkin's lymphoma, parasitic lymphadenitis, Langerhans cell histiocytosis, and, most importantly, angiolymphoid hyperplasia with eosinophilia (ALHE)[3,6]. Kimura's disease and ALHE are often confused due to both their overlapping clinical and histopathological results.



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Figure 3 No evidence of malignancy was found. Final histopathologic examination diagnosed angiomatosis with inflammatory cells. A and B: Lymphoid follicle formation (A: Perspective picture; B: Partial picture); C and D: Eosinophilic abscess area (C: Perspective picture; D: Partial picture); E and F: Obvious vascular hyperplasia (E: Perspective picture; F: Partial picture). B, D, and F are multiples higher than A, C, and E from the same area, respectively. The observed eosinophilic inflammation led to the final diagnosis of Kimura's disease.

ALHE is more often seen in Western patients in their in the third, fourth, or fifth decades. The small reddish-brown cutaneous nodules of ALHE are more superficial than the lesions seen with Kimura's disease. The ALHE patients do not present with elevated serum IgE, lymphadenopathy, nor do they have eosinophilia[11]. The basic biological difference is that ALHE is a blood vessel neoplasm while Kimura's disease is a chronic inflammatory disease[3,12]. Young Asian men are most likely to develop Kimura's disease that usually manifests as a single or multiple masses located in the subcutaneous tissue and/or in the salivary glands. The lesion is usually asymptomatic. Regional lymph nodes are often involved and serum eosinophilia and elevated IgE are characteristic of the condition. ALHE, by contrast, is usually seen in middle-aged women and presents as multiple small papules or nodules with erythematous and itching. The nephrotic syndromes like membranous glomerulonephritis and mesangioproliferative are more closely related to Kimura's disease than they are to ALHE. In addition, systemic manifestations, like eosinophilia found with Kimura's disease, are rarely found in patients with ALHE[13].

While the etiology of Kimura's disease is still unclear, one hypothesis includes immune system pathogenesis with both Th2 and Tc1 cells involved. There are two recent publications that have reported multiple T-cell alterations that are seen with Kimura's disease[3,14]. Other researchers[15,16] indicate that certain cytokines play a predominant role as well[17]. Future high-quality and sufficient sample studies should further evaluate these findings. ALHE's pathogenesis also remains unknown. Some investigators have hypothesized that the damage results from the vascular tumor. Others speculate that they might represent a reaction to injury of vascular tissue; for example, trauma to the skin, persistent viral infection such as with a human T-lymphotropic virus or herpes virus 8, or a hormonal imbalance

[18].

Kimura's disease histology is characterized follicular hyperplasia that includes follicles surrounded by large numbers of eosinophils, lymphocytes, and mast cells. The lymphoid follicles are themselves hyperplastic and they include conspicuous germinal centers. We also observed the presence of fibrosis and sclerosis and the presence of vascular proliferation (Figure 3), consistent with a previous report[19]. By contrast, ALHE histology includes both abnormal vascular proliferation with diffuse lymphocyte infiltration and eosinophils. The abnormal vasculature is composed of capillaries that are clustered around atypical arterial or venous vessels that are dilated and have a protruded endothelium and exhibit rounded and occasionally angular nuclei. The endothelial cells can contain one or multiple cytoplasmic vacuoles. Lymphoid follicles are rare or absent in most cases. Histological examination found a diffuse inflammatory infiltrate with profuse vascular proliferation, endothelial cells with noticeable vacuoles, an eosinophil infiltrate, and predominant vascular processes. Kimura's disease has different histological characteristics, with lymphoid follicles and with a greater average number of eosinophils and ALHE does not show cytoplasmic vacuoles[20]. While the literature comparing Kimura's disease with ALHE is inconclusive, the clinical, epidemiological, and histological characteristic from the present case, and data from relevant publications, show that there are many differences between the two diseases.

CONCLUSION

The present case illustrates a characteristic description of Kimura's disease and expands the phenotypic spectrum of the rare disease. The findings in our report also highlight the main differences between Kimura's disease and angiolymphoid hyperplasia with eosinophilia.

FOOTNOTES

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