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DERMATOLOGY

# Kimura's disease: A diagnostic dilemma

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Received: 13 November 2024 Accepted: 02 December 2024 Published: 18 January 2025

#### DOI

10.25259/RMCGJ\_8\_2024

**Quick Response Code:** 



#### **ABSTRACT**

Kimura disease is benign, rare, chronic inflammatory condition seen predominantly in younger males. There is 3–6-fold male occurrence with a median age at onset of 32 years. The classical presentation is with bilateral cervical lymphadenopathy, occasionally fever, accompanied by peripheral blood eosinophilia and high levels of IgE. It usually presents as subcutaneous masses, particularly around the head and neck, with a variety of nonspecific findings, including itch, urticaria, and chronic eczema. 15% of patients with Kimura disease develop nephrotic syndrome.

Keywords: Angiod Hyperplasia, Biopsy, Eosinophilia, IgE, Kimura disease

#### **INTRODUCTION**

A rare, benign, chronic inflammatory<sup>1</sup> condition that mostly affects young males is identified as Kimura disease. It is more common in Asians. Occurs more commonly in the age group of 20–40 years. Classical presentations with high IgE levels, peripheral blood eosinophilia, bilateral cervical lymphadenopathy, and occasionally fever are recognized by subcutaneous lumps,<sup>2</sup> especially around the head and neck,<sup>3</sup> as well as a range of nonspecific symptoms including itching, urticaria, and chronic eczema. With Kimura disease, nephrotic syndrome<sup>4</sup> develops in about 15% of patients.

### **CASE REPORT**

A 30-year-old male has been experiencing multiple nodules and papules over the left postauricular region for a year, which is gradually progressive. Not associated with itching, fever, and urticaria. Examination revealed multiple hyperpigmented subcutaneous nodules [Figures 1-3] over the left postauricular region [Figure 1]. No pus or bloody discharge was seen in Figure 2. Hematological examination revealed Hb 11 g/dl, TLC 9,000 cells/cumm (neutrophils 31%, lymphocytes 40%, eosinophils 25%, and monocytes 2%) and adequate platelets. Serum immunoglobulins IgE levels were elevated. FNAC of the regional lymph node showed a polymorphous population of lymphoid cells, histiocytes, and mixed inflammatory infiltrate. A biopsy from the lesion showed hyperplastic follicles with germinal centers in lymphoid cells with eosinophils, and eosinophil infiltrate with microabscesses in are present.

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Figure 1: Subcutaneous nodules over the helix of the ear.



Figure 3: Subcutaneous nodules over the ear pinna and occipital area.

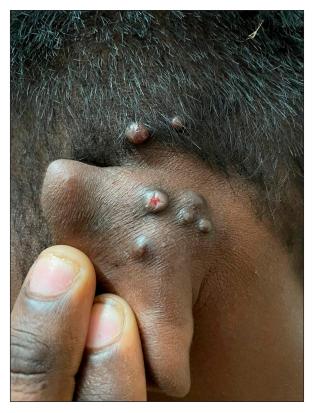


Figure 2: Subcutaneous nodules over retroauricular region.

## **DISCUSSION**

Kimura disease, originally described by Kimura, is an inflammatory condition of soft tissue of unknown cause. It was originally called Eosinophilic Hyperplastic Lymphogranuloma. It is Characterized by lymphatic and angiomatous proliferation and related to regional lymphadenopathy. Disease appears as large, frequent, unilateral nodules in under the skin on the head and neck, along with eyes, axilla, pharynx, palate, groin, and arms. The disease is self-limiting and benign. Exact cause is not known; it may be due to an autoimmune response triggered by some antigenic stimulus. Studies show CD4+ Proliferation, CD4-T helper 2 (Th2) cells, and overproduction of cytokines, interleukins, and TNF-alpha. Kimura disease should be included in the differential diagnosis of any lymph node presenting with eosinophilic infiltrate and follicular hyperplasia [Figures 4 and 5]. Differential diagnosis includes Hodgkin's disease, ALHE (Angiolymphoid hyperplasia with Eosinophilia), Castleman's disease, infections like tuberculosis, dermatophytes, parasitic origin, and eosinophilic granuloma. Histopathologically, Kimura shows inflammatory infiltrate,5 which includes follicular hyperplasia, increased eosinophils, fibrocollagenous and vascular proliferation of endothelial cells. The diagnosis in our case is through cutaneous biopsy

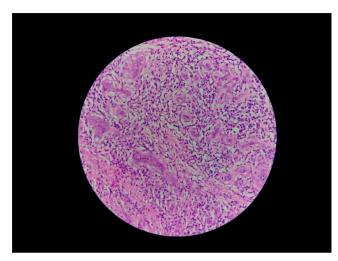


Figure 4: Follicular hyperplasia (Hematoxylin and eosin stain, 40X).

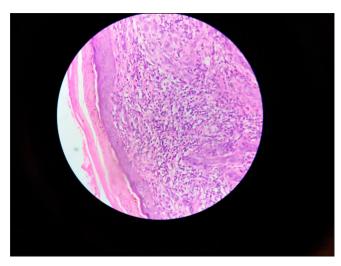


Figure 5: Inflammatory infiltrate with increased eosinophils (Hematoxylin and eosin stain, 40X).

and histopathological correlation. The closest differential is ALHE, which is characterized by more female prevalence and regional lymphadenopathy, peripheral eosinophilia, and elevated IgE levels that have been rarely observed.

Kimura disease can be treated with surgical removal of the localized lesions. Systemic steroids decrease the disease

progression. Radiation for steroid-resistant lesions. In our case, the patient was kept on topical steroids and is under follow-up.

#### **CONCLUSION**

Kimura disease is a rare condition that mimics neoplastic origin. Patients with regional lymphadenopathy along with head and neck masses should be evaluated for this condition. A proper knowledge of the disease helps us to narrow down the diagnosis.

Ethical approval: The research/study approved by the Institutional Review Board at Rangaraya Medical College, number IEC/ RMC/2024/1355, dated 30th October 2024.

Declaration of patient consent: The authors certify that they have obtained all appropriate patient consent.

Financial support and sponsorship: Nil.

**Conflicts of interest:** There are no conflicts of interest.

Use of artificial intelligence (AI)-assisted technology for manuscript preparation: The authors confirm that there was no use of artificial intelligence (AI)-assisted technology for assisting in the writing or editing of the manuscript and no images were manipulated using AI.

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How to cite this article: Jyothi A, Bonthu I, Vinnakoti A, Behara SK. Kimura's disease: A diagnostic dilemma. RMC Glob J. 2025;1:34-36. doi: 10.25259/RMCGJ\_8\_2024