Enfermedad de Rosai-Dorfman cutánea: una nueva presentación clínica

Cutaneous Rosai-Dorfman Disease: A Novel Clinical Presentation

To the Editor:

A 21-year-old woman presented with a 3-month history of a diffuse asymptomatic eruption on her face and trunk. She denied fever or any other constitutional symptoms and her review of symptoms was non-contributory. She denied any pertinent past medical or family history. Her only medication included norgestimate/ethinyl estradiol which she had been taking for several years. Physical examination revealed diffuse scattered non-follicular based flesh-colored papules and small nodules. Many lesions demonstrated a central indentation resembling molluscum contagiosum (see Figures 1 & 2). She did not have any cervical, axillary, or inguinal lymphadenopathy. Mucous membrane examination was unremarkable and lacrimal glands did not appear enlarged. Routine histologic examination of her right neck lesion revealed a dense nodular dermal mononuclear cell rich infiltrate showing a significant number of plasma cells and numerous scattered S100 positive multinucleated histiocytes with marked emperipolesis and inconspicuous eosinophils (see Figure 3). Complete blood count with differential, erythrocyte sedimentation rate, lactate dehydrogenase, liver transaminases, alkaline phosphatase, bilirubin, and creatinine were negative or within normal limits. Chest and abdominal magnetic resonance imaging were normal. She was treated with a 60 mg oral prednisone taper over six months which resulted in complete resolution of her skin lesions. Follow up at 10 months from onset of disease demonstrated complete remission.

Rosai-Dorfman Disease (RDD) is a relatively rare histiocytic proliferation disorder that was first described in 1969. Though RDD classically presents with bilateral massive lymphadenopathy and systemic symptoms, it typically

Figure 1 Diffuse scattered non-follicular based flesh-colored papules and small nodules, some with central indentations, were seen on the face and the trunk.


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Emperipolesis in cutaneous disorders has been traditionally related to RDD until recent descriptions of other disorders related to the so-called H syndrome. This disorder is characterized by hyperpigmentation, hypertrichosis, hearing loss, heart anomalies, hepatosplenomegaly, hypogonadism, and hallux valgus and is caused by a mutation in the SLC29A3 gene. Many authors believe that syndromes associated with mutations in SLC29A3 including familial RDD and pigmented hypertrichosis with insulin-dependent diabetes, in addition to H syndrome, fall into the same spectrum of RDD.

Recognition of the pleomorphic genetic and phenotypic presentations of SCL29A3-related diseases is important for diagnosis and for consideration in the histopathologic differential diagnosis of emperipolesis. In addition to SCL29A3-related diseases, IgG4-related diseases have also been shown to have some overlap with RDD as a subset of RDD has been found to contain increased numbers of IgG4-positive plasma cells. However, much controversy remains regarding this.

Currently there is no standard guideline for the management of CRDD. The clinical course of CRDD is usually benign and self-limited. Spontaneous resolution varies and ranges from months to several years. A wide spectrum of therapeutic interventions including surgical excision, cryotherapy, radiotherapy, lesional and systemic corticosteroids, thalidomide, methotrexate, and even chemotherapy have also been reported to be successful for resistant and/or recurrent lesions.

In summary, we first present a case of CRDD with a peculiar eruption resembling molluscum contagiosum thus expanding the spectrum of the cutaneous clinical presentation of the disease and making CRDD another dermatologic masquerader. The nonspecific clinical presentation along with the not infrequently inconspicuous finding of Rosai-Dorfman cells in skin samples and furthermore the typical spontaneous resolution may represent clinico-pathologic characteristics that lead to the tangible possibility of CRDD being underreported.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

References

Kikuchi-Fujimoto Disease with Scalp Involvement

Enfermedad de Kikuchi-Fujimoto con compromiso de cuero cabelludo

Dear Editor,

We report the case of a 49-year-old Peruvian woman who presented with a 5-month history of cervical lymphadenopathy and neck pain. Social, family and medical past history were noncontributory. Physical examination revealed bilateral cervical lymphadenopathy, and a 3-cm-diameter erythematous plaque on her scalp (Figure 1a). Blood tests showed neutropenia (2.2 x 10^3/L) and positive serum antinuclear antibodies (titers 1:160). Computed tomographic scan (CTS) and 18-fluorodeoxyglucose positron emission tomography (PET) disclosed bilateral cervical lymphadenopathy with up to 2-cm enlarged lymph nodes. Skin biopsy showed mild vacuolar change in epidermal basal cells as well as perifollicular lymphohistiocytic infiltration and caryorrhexis in the reticular dermis (Figure 1b, 1c). Immunohistochemical analysis revealed that the lymphoid infiltrate was predominantly CD3+, with CD8 positive cells predominating over CD4 (Figure 1d). By the other side CD68, CD163 and myeloperoxidase (MPO) immunostaining disclosed the presence of many histiocytes, and CD123 revealed that there were some plasmacytoid monocytes. Neutrophils and eosinophils were absent, and no granulomas were evidenced. Vasculitis was not a feature. Lymph node biopsy showed paracortical hyperplasia, patchy necrosis with abundant cellular debris and profuse peripheral histiocytic cells. She was diagnosed with Kikuchi-Fujimoto disease (KFD) with cutaneous involvement.

KFD, also known as histiocytic necrotizing lymphadenitis, was first described by Kikuchi1 and Fujimoto2 in 1972. It is a benign and self-limiting disorder characterized by lymphadenopathy associated with low-grade fever and flu-like symptoms. Unilateral and posterior cervical nodes are the commonest to be involved although it can present as generalized lymphadenopathy.3

The female to male ratio is more than 4:1. The predominance of reports from Japan, and the fact that many of the patients reported in Europe and the USA have been of Asian descent, may point to a racial or genetic susceptibility.4 Its etiology remains uncertain. A viral origin has long been suspected; however, the clinical course of the disease, the disappearance of lesions without any specific treatment, and some similarities with features of systemic lupus erythematosus (SLE) suggests the involvement of autoimmune mechanisms.5

The diagnosis is confirmed by lymph node biopsy.6 Involved lymph nodes characteristically demonstrate architecture partially effaced by confluent paracortical necrotic foci with abundant karyorrhectic debris, surrounded by CD68+ and MPO+ histiocytes, immunoblasts, CD8+ T-cells and CD123+ plasmacytoid dendritic cells.8 Neutrophils and eosinophils are absent. KFD has been classified into three histological subtypes, and is thought to progress from the proliferative type (expanded paracortex with an increase in histiocytes and plasmacytoid dendritic cells and karyorrhectic nuclear debris) to the necrotizing type (predominance of necrosis), and finally resolve into the xanthomatous type (predominance of foamy histiocytes).6

The skin is the most frequently affected extranodal organ, as cutaneous involvement has been reported in 16-40% of patients.7 Although some cases of KFD cutaneous lesions mimicking urticarial, morbilliform, rubella-like or drug-eruption-like rashes have been described, cutaneous KFD usually presents as erythematous papules and plaques, predominantly on the face, arms and upper neck. The