Acrokeratosis paraneoplastica (Bazex syndrome) with bullous lesions

Sir,

Acrokeratosis paraneoplastica (Bazex syndrome) is a rare paraneoplastic skin disease associated mostly with squamous cell carcinomas of the upper aerodigestive tract. This syndrome is defined by erythematous, violaceous, scaly plaques on the hands and feet and on other acral locations such as ears and nose.

Bullous lesions are uncommon, and most of them are located in acral areas.

A 57-year-old male consulted for a 3-month-long appearance of an insidious and progressive asymptomatic blistering eruption that involved his trunk and retroauricular region associated with scaly plaques on the hands and feet.



Figure 1: Asymptomatic tense blister* and erosion seen on the left retroauricular region



Figure 2: Tense bulla with non-erythematous base, containing clear fluid present on the back of the patient. Flexural aspects, abdomen, feet and hands were spared

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DOI:
10.4103/ijdvl.IJDVL_288_18

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How to cite this article: Durán-Vian C, Gómez C, Navarro I, Reguero L, Alonso L, González-Vela MC, *et al.* Acrokeratosis paraneoplastica (Bazex syndrome) with bullous lesions. Indian J Dermatol Venereol Leprol 2020;86:335.

Received: April, 2018. Accepted: February, 2019.

His past medical and personal history were significant for arterial hypertension, tobacco use and alcohol abuse. He was diagnosed 3 months earlier with oropharyngeal squamous cell carcinoma after presenting with dysphagia and weight loss. For the last 1 month, the patient was receiving chemotherapy with cisplatin for his cancer.

Cutaneous examination revealed several 0.5–3 cm tense, straw-colored fluid-filled bullae and erosions around his left retroauricular region and back [Figures 1 and 2]. In addition, he had symmetrically distributed violaceous psoriasiform lesions on the hands, palmoplantar hyperkeratosis, edematous fingers and violaceous psoriasiform plaques in both ears [Figures 3 and 4]. There were no bullous lesions on his hands or feet.

No treatment was prescribed and skin biopsies were performed from the hyperkeratotic ear lesions and bullae on the back in order to confirm the clinical suspicion of acrokeratosis paraneoplastica and discard a concomitant primary autoimmune bullous disorder, especially bullous pemphigoid.

The biopsy from the ear revealed hyperkeratosis and interface dermatitis with mixed perivascular inflammatory infiltrate [Figure 5]. The biopsy from the bullous area showed a subepidermic bullae, dyskeratosis and a mixed inflammatory infiltrate consisting of eosinophils, lymphocytes and melanophages [Figure 6]. Direct immunofluorescence was negative. The presence of interface dermatitis with hyperkeratosis and eosinophil-rich infiltrate was consistent with the clinical diagnosis of Bazex syndrome.



Figure 3: Violaceous psoriasiform lesions on the dorsum of the hands associated with swelling of the digits with a blue to violet discoloration

Two months later, the patient showed an improvement of his clinical manifestations that we attributed to chemotherapy treatment. Nevertheless, a few months later the patient died of acute liver failure.

Bazex syndrome is a rare disease in which characteristic cutaneous changes are associated with underlying carcinoma. The presence of bullae and vesicles is not typical and has only been reported in a minority of patients with Bazex syndrome, especially located on the hands and feet.¹⁻³ Although the eruption can involve the limbs and trunk, we were unable to find any previous reports of bullous lesions located on the back.

The histological features of Bazex syndrome are often non-specific or show necrotic keratinocytes causing a vacuolization of the basal zone, thus leading to the creation of subepidermal clefts, clinically presenting as bullae, as we described.⁴ Although the histological findings can include subepidermal or intraepidermal vesicles, no typical features of bullous autoimmune disorders have been reported. In addition, direct immunofluorescence is usually negative.

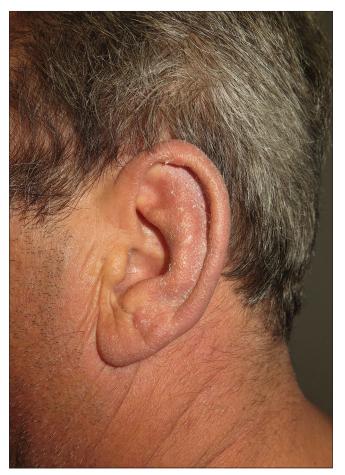


Figure 4: Induration, desquamation and violaceous swelling of the left ear helix

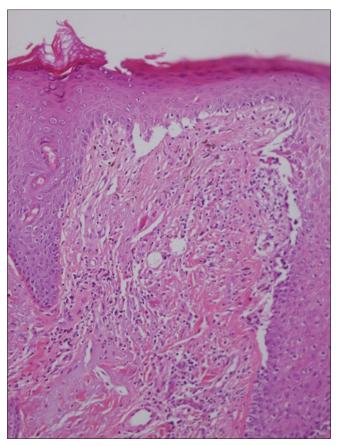


Figure 5: Hyperkeratosis, acanthosis, subepidermal blister and deep perivascular and periadnexal lymphocytic infiltrate are shown in the biopsy from the helix (hematoxylin and eosin, ×100)

Our patient's clinical findings were suggestive of a blistering disease, but neither hematoxylin and eosin nor direct immunofluorescence evaluation showed evidence of bullous pemphigoid or paraneoplastic pemphigus.

Various explanations have been proposed for bullae formation such as coincidental distinct bullous disorder (porphyria, bullous pemphigoid) or developing another paraneoplastic bullous disorder such a paraneoplastic pemphigus. Deposits of IgA, IgG and C3 in a nonspecific pattern along the epidermal basement membrane have been reported in some cases, supporting the theory that bulla formation is most probably part of the changes that may affect the skin of patients with Bazex syndrome. 1,5

These bullous lesions are rare in Bazex syndrome and they can mimic an autoimmune bullous disease. We emphasize the need to suspect Bazex syndrome in patients who present with atypical psoriasiform changes and bulla formation located not only on acral sites but also on the back. A correct diagnosis is based on histopathological features and negative immunofluorescence tests that exclude other bullous diseases with specific findings, especially in cases

of acrokeratosis with unusual manifestations, as presented earlier.

Declaration of patient consent

The authors certify that they have obtained all appropriate patient consent forms. In the form, the patient has given his consent for his images and other clinical information to be reported in the journal. The patient understands that name and initials will not be published and due efforts will be made to conceal identity, but anonymity cannot be guaranteed.

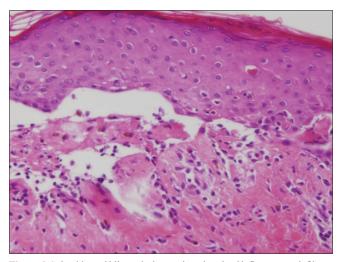


Figure 6: Subepidermal blister, dyskeratosis and a mixed inflammatory infiltrate are demonstrated in the biopsy from the back bullous area (hematoxylin and eosin, ×200)

Financial support and sponsorship Nil.

Conflicts of interest

There are no conflicts of interest.

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