Erythema Multiforme Contact Dermatitis After Accidental Exposure to Acrylate-based Printing Inks

Eritema multiforme de contacto tras exposición accidental a acrilatos en tintas de impresión

To the Editor:

Acrylates are well recognized as allergens. People working in the graphic arts field are exposed to acrylate-based printing inks and are therefore at high risk for occupational allergic contact dermatitis to acrylates.\(^1\) The most commonly used acrylic monomers in the printing process are 2-hydroxyethyl acrylate, 2-hydroxypropyl acrylate, 2-hydroxypropyl methacrylate, 2-hydroxyethyl methacrylate, and 2-ethyl acrylate.\(^2\)

We present the case of a 26-year-old printing worker whose forearms came into contact with waste ink that spilled from a container. He was not exposed to sunlight or UV light and washed the affected area after the spill. Three days later, he began to experience intense pruritus, and vesicles began to appear on the wrists and forearms. The intensity of the lesions increased during the following days, with the appearance of multiple targetoid erythematous-edematous macules in the neighboring areas of the forearms and arms (Fig. 1) and on the face, trunk, and extremities at some distance from the ink splashes (Fig. 2). The patient had no history of skin disease, infection, or ingestion of medication during the previous months.

Analysis of a biopsy specimen revealed vacuolar degeneration of the basement membrane, necrotic keratinocytes in the epidermis, exocytosis, and a predominantly perivascular, lymphocytic inflammatory dermal infiltrate with no spongiosis.

The suspected diagnosis was erythema multiforme contact dermatitis. Oral prednisone was prescribed, and the lesions improved gradually until they had completely resolved 2 weeks later leaving only scaling. A few hours after returning to work, he experienced a new outbreak, albeit of lesser intensity. The patient remains asymptomatic 7 months after being moved from his job.

Patch tests were performed using the standard series of the Spanish Contact Dermatitis and Skin Allergy Research Group (GEIDAC) and the Marti Tor meth(acrylate) series. Positive reactions were recorded for 2-hydroxyethyl methacrylate 1% petrolatum (pet), 2-hydroxyethyl acrylate 0.1% pet, 2-hydroxypropyl methacrylate 2% pet, ethyl acrylate 0.1% pet, and tetrahydrofurfuryl methacrylate 2% pet. No further positive reactions were recorded (Table 1). Although we did not have access to the ink that caused the initial reaction (SR238, Sartomer), the technical specifications of the product showed that it contained hexamethylene diacrylate. Therefore, diagnosis was confirmed as erythema multiforme contact dermatitis, probably caused by sensitization to hexamethylene diacrylate, with cross-reaction to other acrylates.

Erythema multiforme contact dermatitis is an uncommon condition that is caused by contact with vegetable allergens, metals, tropical woods, cosmetics, and chemicals.\(^3\) It is the most common noneczematous clinical presentation of allergic contact dermatitis. The initial lesions are eczematous in appearance and are found in the area of direct contact with the allergen. During the following days, targe-

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Diffuse Systemic Large B-Cell Lymphoma With Secondary Skin Involvement

Linfoma B difuso de células grandes sistémico con afectación cutánea secundaria

To the Editor:

Diffuse large B-cell lymphoma (DLBCL) is the most common type of systemic lymphoma and accounts for 40% of all new cases of this disease. Prognosis has improved considerably since the introduction of rituximab, which combined with chemotherapy is associated with a cure rate of up to 50%2; R-CHOP is the regimen of choice. Secondary cutaneous involvement is uncommon in DLBCL, although it has been observed in up to 20% of cases in some series.2

We present the case of an 81-year-old man in good health who presented with an indurated, erythematous-violaceous plaque-like lesion with a diameter of 7 × 4 cm on the right leg (Fig. 1). The plaque had appeared 3 weeks earlier. A biopsy was performed to investigate the suspected diagnosis of primary cutaneous lymphoma, with results showing a diffuse, dense infiltration of large, highly pleomorphic atypical basophilic cells in the dermis (Fig. 2). Immunohistochemical stains were positive for B-cell markers (CD20, CD79a), negative for T-cell markers (CD3, CD5), and strongly positive for Bcl-2. Less intense staining was observed for Bcl-6 and MUM-1, and the results were negative.