of vascular origin. The most important differential diagnoses are angiosarcoma, which expresses endothelial markers such as CD31 and CD34, and chronic expansive hematoma, which presents as an encapsulated tumor filled with blood and neovasculature.

What was interesting about this case, apart from the rarity of the condition, was the ease with which a giant vascular eccrine spiradenoma could be mistaken for a lesion of vascular origin.

References


E. Jorquera Barquero, a,∗ C. Lara Bohórquez, b
I. de Alba Rioja a

a Servicio Dermatología M-Q y Venereología, Complejo hospitalario de Huelva, Huelva, Spain
b Servicio de Anatomía Patológica, Complejo hospitalario de Huelva, Huelva, Spain

∗Corresponding author.
E-mail address: jorroc@aedv.es (E. Jorquera Barquero).

Refractory Hailey-Hailey Disease That Responded Well to Photodynamic Therapy

Enfermedad de Hailey-Hailey recalcitrante con buena respuesta a terapia fotodinámica

To the Editor:

Hailey-Hailey disease or familial benign pemphigus is a rare hereditary skin disease. This chronic and recurrent condition can cause severe discomfort and be difficult to control with conventional treatments. Photodynamic therapy (PDT) could offer an alternative in cases in which other treatment options have failed.

The patient was a 56-year-old male who for 30 years had experienced several outbreaks a year of stinging, itching, and burning lesions located on the neck and armpits. The lesions interfered with his daily activities and had a negative impact on his quality of life. Physical examination revealed bright, well-defined, highly exudative, eroded, and erythematous plaques with some surface crusts located in both armpits and on the lateral aspects of the neck (Fig. 1). Histological study of a biopsied sample from one of the lesions demonstrated an epidermis with erosions and intraepidermal blisters, marked acantholysis, and the typical appearance of a dilapidated brick wall. The patient had been diagnosed with Hailey-Hailey disease and had received multiple treatments with astringents such as copper and zinc sulfate (1:1000), topical and systemic steroids, topical vitamin D derivatives, topical tacrolimus, and acitretin. Response to treatment had always been partial with a disease-free interval between flares lasting only a few weeks. These shortcomings represented an important limitation for the patient. He agreed to undergo a single session of PDT to see what the response would be and to assess the tolerability of the treatment. First, both underarms were cleaned with physiological saline solution and methyl aminolevulinate (MAL) cream was applied under occlusion for 3 hours. The underarms were then irradiated with a red light (Aktlile at 37 J/cm²) for 7.5 minutes. During the period of exposure, the patient experienced a slight sensation of pain and burning, which was well tolerated. The response on follow-up at 2 weeks was excellent: the erosions had healed, the exudate and erythema had disappeared, and the patient reported an improvement in his quality of life (Fig. 2). Six months later, the patient is still free of lesions and has not undergone any other treatment.

Hailey-Hailey disease or familial benign pemphigus is an autosomal dominant genodermatosis caused by a mutation in the ATP2C1 gene. It is characterized by the appearance of

vesicles, blisters, and erosions in flexural areas, including the neck and axillas as well as the inframammary and inguinal folds. Typically, patients experience recurrent flares and, occasionally, spontaneous remission. Among the best known precipitating factors are exposure to UV light, sweat, friction, stress, skin infections, and pregnancy.

Many treatments have been used to control the disease with varying results. Medical treatments include topical and systemic corticosteroids, topical and systemic antibiotics, topical vitamin D analogs, topical 5-fluorouracil, dapsone, psoralen and UV-A light therapy, systemic retinoids, ciclosporin, methotrexate, and oral glycopyrrolate. A number of invasive treatments have been attempted, including infiltration with botulinum toxin, carbon dioxide laser, erbium: yttrium aluminium garnet laser, and dermabrasion.

In the literature, we found only 2 articles (referring to 5 patients) on Hailey-Hailey disease treated with PDT (Table 1). The age of the 5 patients ranged from 28 to 51 years and all but one were women. The time elapsed since diagnosis ranged from 8 months to 24 years, and all 5 patients had undergone prior treatment with topical corticosteroids and a topical vitamin D analog or an antibiotic. Two of the patients had a complete response followed by a disease-free interval of 19 and 25 months, respectively; a further 2 patients showed partial improvement of their lesions, and the remaining patient did not improve. In the cases reported by Ruiz-Rodriguez et al. PDT was well tolerated because lidocaine 1% was administered in the treatment site as a local anesthetic. By contrast, the 3 patients reported by Fernández-Guarino et al. experienced pain, erythema and/or edema during and after treatment and none of them wished to undergo another PDT session. Topical anesthetics could interfere with the effectiveness of PDT treatment because they have an alkaline pH that destabilizes the aminolevulinic acid.

It remains unclear why patients with Hailey-Hailey disease improve with PDT, but the good response is thought to be due to intracellular accumulation of protoporphyrin IX in epidermal keratinocytes, which interferes with structures such as mitochondria, lysosomes, and endoplasmic reticulum.

Providing it is tolerated, PDT may represent an alternative treatment option in cases of Hailey-Hailey disease refractory to first-line therapies, since durable remissions can be achieved that can improve the patient’s quality of life.
Mast Cells and Scarring Alopecia: Is There a Clear Pathophysiologic Relationship?*

Mastocitós y alopecia cicatricial: ¿había una clara relación fisiopatológica?

To the Editor:

Frontal fibrosing alopecia is a subtype of scarring (or cicatricial) alopecia that is histologically characterized by the presence of a predominant lymphocytic infiltrate. The presence of unexpectedly large numbers of mast cells is a rare finding that has been reported only infrequently in the literature. A recent case described in our unit prompted us to reflect on the pathophysiologic role of mast cells in frontal fibrosing alopecia and other varieties of the disorder.

A 48-year-old woman who experienced early menopause at age 42 years consulted for asymptomatic progressive alopecia. She had not undergone any previous treatment. Physical examination revealed recession of the frontal and temporal hairline (Fig. 1, A) with no desquamation, erythema, or perilesional hyperkeratosis (Fig. 1, B). There was no variation in the length or thickness of the hair shaft, nor was there any decrease in hair follicle density in the healthy area. The skin had a parchment-like appearance, and some intact hair follicles were present in the hair loss band. Alopecia was noted in the distal third of the

Table 1  Cases of Hailey-Hailey Disease Treated with Photodynamic Therapy.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Age</th>
<th>Sex</th>
<th>Duration of Disease</th>
<th>Site Affected</th>
<th>Prior Treatments</th>
<th>Disease-Free Interval After PDT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruiz-Rodriguez et al., 2002</td>
<td>45</td>
<td>♀</td>
<td>4 y</td>
<td>Axillas, groin</td>
<td>Topical and systemic corticosteroids, topical and systemic antibiotics, dermabrasion</td>
<td>Complete response, 19 mo</td>
</tr>
<tr>
<td></td>
<td>51</td>
<td>♀</td>
<td>24 y</td>
<td>Groin, vulva</td>
<td>Topical and systemic corticosteroids, topical and systemic antibiotics</td>
<td>Complete response, 25 mo</td>
</tr>
<tr>
<td>Fernández Guarino et al., 2008</td>
<td>45</td>
<td>♀</td>
<td>3 y</td>
<td>Axillas</td>
<td>Topical corticosteroids and vitamin D analogs</td>
<td>No response</td>
</tr>
<tr>
<td>Lobato-Berezo, 2015</td>
<td>56</td>
<td>♂</td>
<td>30 y</td>
<td>Axillas, neck</td>
<td>Copper and zinc sulfate, topical and systemic corticosteroids, vitamin D analogs, topical tacrolimus, acitretin</td>
<td>Complete response, 6 mo</td>
</tr>
</tbody>
</table>

References


A. Lobato-Berezo,* A. Imbernón-Moya, A. Aguilar-Martínez
Departamento de Dermatología, Hospital Universitario Severo Ochoa, Leganés, Madrid, Spain

*Corresponding author.
E-mail address: allobe@hotmail.es (A. Lobato-Berezo).