

Journal Homepage: -www.journalijar.com

# INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

INTERNATIONAL ADCRINAL OF ART ANCRES SESTANCES SESTANCES

**Article DOI:**10.21474/IJAR01/18777 **DOI URL:** http://dx.doi.org/10.21474/IJAR01/18777

#### RESEARCH ARTICLE

#### PEMPHIGUS HERPETIFORMIS TREATED EFFECTIVELY WITH DERMOCORTICOIDS ALONE

El Bakalielkhalil, Keby Edgar, Kerrouch Hasna, Anouar Ilias, Hanafi Tarik, El Azhari Jawad, Amraoui Mohamed, Zemmez Youssef, Frikh Rachid and Hjira Naoufal

Dermatology Department, Mohammed V Military Hospital, Mohammed V University, Rabat.

## Manuscript Info

Manuscript History

Received: 21 March 2024 Final Accepted: 28 April 2024 Published: May 2024

Key words:-

Pemphigus Herpetiformis, Direct Immunofluorescence, Dermocorticoids

#### Abstract

**Introduction:** Pemphigus herpetiformis is a rare form of pemphigus.

Case Report: A patient presented with a well-limited erythematous-squamous and crusty dermatosis with a ring-like arrangement, with vesiculo-bullous lesions with a herpetiform grouping of the trunk and 4 limbs. Histological and direct immunofluorescence findings were consistent with pemphigus. The diagnosis of pemphigus herpetiformis (PH) was made. The patient was treated with dermocorticoids with lasting remission.

**Discussion:** Pemphigus herpetiformis is a particular form of pemphigus characterised by a clinical picture resembling that of dermatitis herpetiformis and an immunopathological appearance similar to that of pemphigus. It generally has a good prognosis. Treatment is based on dapsone and/or general corticosteroid therapy.

Copy Right, IJAR, 2024,. All rights reserved.

#### **Introduction:**-

Pemphigus herpetiformisis a particular and rare form of pemphigus, first describedin 1975 by Jablonska et al [1]. It ischaracterised by clinicalsigns of dermatitisherpetiformis and immunohistological features of pemphigus. Consequently, the presence of diagnostic difficulties for thisentity.

### Case Report:

A 101-year-old womanwith a history of cataractsurgery and valve diseaseundertreatmentconsulted for erythematosquamous and crustylesionsthathad been developing for 5 months, associated with a pruritic bullous rash thathadappeared 3 monthspreviously. Clinical examination revealed well-limitedery thematous-squamous and crusty plaques with an annular pattern, associated with rosivelesions with a vesiculo bullous rash with a herpetiform grouping (Figures 1, 2 and 3), located on the trunk and 4 limbs. Nikolsky's signwasnegative and there was no mucosal involvement.

Pathological examination revealed a cantholy sis without necrosis or cleavage. The dermiswas the site of a polymorphic perivascular and interstitial infiltrate, essentially lympho-histocytic with the presence of numerous eosinophilic polymorphs (Figure 4). Direct immunof luorescence (DIF) showed inter-keratinocyte deposits of IgG and C3 in a "meshwork" pattern, predominantly on the lower 2/3 of the epidermis. The diagnosis of pemphigus herpetiformiswas made on the basis of all these findings.

The patient was put on verystrong class dermocorticoids. The evolutionwasfavourable with a lasting remissionafter 9 months.

### 727

#### **Discussion:-**

Pemphigus herpetiformisis a non-classical and rare entity, accounting for 6 to 7.3% of all pemphigus[2]. It canoccuratanyage, with an averageageatdiagnosis of 53 years[3], and can affect both sexes withoutgenderpredilection[2,4,5,6] or with a slightfemalepredominance[3].

Clinically, pemphigus herpetiformisismostfrequently (82% of cases) manifested as erythematousurticarial plaques withvesicles and bullaearound the periphery, whichoftentake on a herpetiformappearance[2,3], sometimesonly as annularerythematousurticarial plaques (8% of cases) or as vesiculobullouslesionswith a herpetiformappearance (9% of cases)[3]. In some cases, otherlesionsmaybeassociated: eczematous plaques [7] or erosions. Pemphigus herpetiformismainly affects the trunk and extremities, rarely the neck, scalp or face. Pruritusisfrequentlyobserved, and issometimessevere. Mucous membranes are rarelyaffected, withinvolvement of the buccal mucosa or labia minora[3]. Nikolsky'ssignisinconsistent.

Biologically, hypereosinophiliaissometimesnoted [3,6].

Histologically, eosinophilicspongiosisisthe mostcharacteristic feature of pemphigus herpetiformis. Other features may be present: spongiosis with eosinophilic or neutrophilic infiltration, or both - eosinophilic and neutrophilic - subcorneal pustules, or intraepider malvesicles. A cantholysis is usually discreet, but rarely (4% of cases) can be severe [3]. An inflam matory infiltrate dominated by neutrophils or eosinophils is often observed in the dermis [8]. Direct immunofluorescence (DIF) examination of a peri-lesional biopsy shows intra-epider mal inter-keratino cyte deposition of IgG, associated with C3 deposition in 40% of cases [3]. IgA deposits may also be observed, posing problems of differential diagnosis with IgA pemphigus, especially when intercellular IgA deposits alone are present [9,10,11]. The profile of circulating antibodies targeting epider mal proteins, most reported cases of pemphigus herpetiform is are positive for anti-desmogle in 1 but rarely for anti-desmogle in 3 [3].

The cause of pemphigus herpetiformis has not been elucidated. It israrelyassociated withother diseases, but itsmostfrequently reported association is with another autoimmune bullous dermatosis (other types of pemphigus, linear Ig Abullous dermatosis and bullous pemphigoid). Other diseases may be associated with PH, such as rheumatoid arthritis, psoriasis, dysthyroidism, systemic lupus erythematosus, HIV infection, sarcoidosis, myasthenia and autoimmune haemolyticanaemia. While rare cases of association with neoplasia have been reported in the literature, in patients with lung cancer, oesophageal cancer and prostate cancer [3]. There have been reports of drugind uced pemphigus herpetiformis induced by erdosteine, D-penicillamine, bucillamine [3] and tisle lizumab [12].

According to a review of the literature byCosta et al[3], pemphigus herpetiformis has generally been successfullytreatedwithdapsone, oral corticosteroids or a combination of the two. Dapsone, because of itsefficacy in reducing neutrophil migration, is considered by manyauthors to be the first-line treatment. The doses of daily corticosteroids required for complete remission are much lower than those required in other types of pemphigus [13]. More intensive treatment modalities have been proposed to control the disease in recalcitrant cases, including a zathioprine, cyclophosphamide, intravenous immunoglobulin, methot rexate, mycophenolate mofetil, cyclosporine, sulfapyridine, minocycline, nicotinamide, doxycycline and leflunomide, rituximab and plasmapheres is [3,13]. In our case, remarkable clinical improvement was observed with dermocorticoids alone. They were also reported to be effective in another case [14], with a good clinical response at one year follow-up.

Pemphigus herpetiformisgenerally has a good prognosis and a rapidlyfavourable course withtreatment, with rare cases (3% of cases) reportingspontaneous remission without treatment [3]. However, some cases may progress to pemphigus foliaceae and rarely to pemphigus vulgaris [6].

#### Conclusion:-

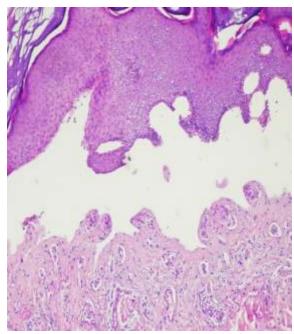
Pemphigus herpetiformisis a rare form of pemphigus with a good prognosis. Itsclinicalappearanceismisleading, initiallysuggestingdermatitisherpetiformis and making the diagnosisdifficult to establish. DFI is essential to confirm the diagnosis. We report a rare case of pemphigus herpetiformistreatedeffectivelywithdermocorticoidsalone.

Figures :





**Figures 1-2-3:-** Annular plaques and peripheralbullaewith a herpetiform pattern located on the trunk and extremities.



**Figure 4:-** The histological appearance shows spongiosis with intra-epidermal acantholysis.

## **References:-**

- [1]. Jablonska S, Chorzelski TP, Beutner EH, Chorzelska J. Herpetiform pemphigus, a variable pattern of pemphigus. International Journal of Dermatologie. 1975; 14: 353-359.
- [2]. Saidi W, Hamrouni I, Chemli M, Larif M, Zaouali A, Aounallah A, et al. Pemphigus herpétiforme. Annales de Dermatologie et de Vénéréologie. 2014; 141: 646-7.
- [3]. Costa LMC, Cappel MA, Keeling JH. Clinical, pathologic, and immunologic features of pemphigus herpetiformis: aliteraturereview and proposed diagnostic criteria. International Journal of Dermatology. 2019; 58: 997-1007.
- [4]. Porro AM, Caetano LdVN, MaeharaLdSN, EnokiharaMMdS. Non-classicalforms of pemphigus: Pemphigus herpetiformis, IgA pemphigus, paraneoplastic pemphigus and IgG/IgA pemphigus. AnaisBrasileiros de Dermatologie. 2014; 89: 96–106.
- [5]. Kasperkiewicz M, Kowalewski C, Jabłońska S. Pemphigus herpetiformis: From first description untilnow. Journal of the American Academy of Dermatology. 2014; 70: 780–7.
- [6]. Laws PM, Heelan K, Al-Mohammedi F, Walsh S, Shear NH. Pemphigus herpetiformis: a case series and review of the literature. International Journal of Dermatology. 2015; 54: 1014–1022.
- [7]. Durdu M, Seckin D. Pemphigus herpetiformis: six additional cases with an emphasis on eczema-likefeatures and the diagnostic utility of Tzancksmears. Journal of the EuropeanAcademy of Dermatology and Venereology. 2016; 30: 540–542.
- [8]. Kozlowska A, Hashimoto T, Jarzabek-Chorzelska M, Amagai A, Agata Y, Strasz Z, et al. Pemphigus herpetiformiswithIgA and IgGantibodies to desmoglein 1 and IgGantibodies to desmocollin 3. Journal of the American Academy of Dermatology. 2003; 48: 117—22.
- [9]. Chorzelski TP, Beutner EH, Kowalewski C, Olszewska M, Maciejowska E, Seferowicz E, et al. IgA pemphigus foliaceuswith a clinicalpresentation of pemphigus herpetiformis. Journal of the American Academy of Dermatology. 1991; 24: 839–844.
- [10]. Harman KE, Holmes G, Bhogal BS, McFadden J, Black M M. IntercellularIgAdermatosis (IgA pemphigus) two cases illustrating the clinicalheterogeneity of this disorder. Clinical and Experimental Dermatology. 1999; 24: 464–466
- [11]. Hodak E, David M, Ingber A, Rotem A, Hazaz B, Shamai-Lubovitz O, et al. The clinical and histopathological spectrum of IgA-pemphigus—report of two cases. Clinical and Experimental Dermatology. 1990; 15: 433–437.
- [12]. Zhang Y, Zhang M, Xie J, Wu W, Lu J. Pemphigus Herpetiformis-Type Drug ReactionCaused by ProgrammedCellDeath Protein-1 InhibitorTreatment. Clinical, Cosmetic and InvestigationalDermatology. 2021; 14: 1125-1129.

[13]. Peterman CM, Vadeboncoeur S, Schmidt BA, Gellis SE. Pediatric Pemphigus Herpetiformis: Case Report and Review of the Literature. PediatrDermatol. 2017; 34: 342-346.

[14]. Erraji H, Hali F, Baline K, Marnissi F, Chiheb S. Pemphigus herpétiformepemphigoïdelike : à propos d'un cas. Annales de Dermatologie et de Vénéréologie. 2018 : A51- P55 https://doi.org/10.1016/j.annder.2018.03.085.