Sir,

Pseudolymphoma (recently termed as benign Cutaneous lymphoid hyperplasia) is not a specific disease, instead it’s an exaggerated local immune response to known or unknown stimuli that results in a lymphomatous-appearing but benign accumulation of inflammatory cells [1]. The clinical presentation is a skin or red coloured nodule on the face or chest, at times multiple lesions maybe seen [2].

Implicated antigens include medications, vaccination, contact allergens, tattoo dyes, metal implants, although mostly they are idiopathic. Also, bite from arthropods that are infected with bacterial spirochetes such as Borrelia burgdorferi, bite of ixodes tick, medicinal leech can incite them [2-4].

A 70 year old man came to our outpatient clinic with an asymptomatic, solitary, well defined, oval shaped, reddish-brown, firm, nontender, indurated nodule measuring 1.5*1.5 cm on the right cheek. There were no clinical signs of infection, and the patient denied history of trauma, insect bite, scratching, or any medications, particularly anticonvulsants.

Skin biopsy (Fig. 1) from the nodular lesion show dense diffuse and nodular infiltrate of small and large lymphocytes and histiocytoid cells involving the whole of reticular dermis and extending to subcutis. The lymphocytes vary to an extent in size of their nuclei and some of them are in mitosis. Most of the nodules show formation of lymphoid follicles, the majority of the nodules are irregular and the number of blood vessels is increased within them. The subepidermal zone is completely spared by the lymphocytes. Some of the epidermal appendages are visualised. A few eosinophils are scattered within the infiltrate. The biopsy report was consistent with Pseudolymphoma.

On dermoscopic examination (Fig. 2), the surface of the nodule is studded with white spicules at the root of the hair follicle (Demodex tails) and numerous coarse follicular openings (Demodex at follicular openings). Further examination revealed chrysalis structures, linear vessels which in some areas cross the white reticular network, few white scales, on a pinkish background.

A diagnosis of Pseudolymphoma was established on the basis of clinical examination, dermoscopy and histopathological evaluation.

Here, we are describing a case of Pseudolymphoma which on dermoscopy showed the presence of numerous white spicules at the root of hair follicle (Demodex tails) and coarse follicular openings containing Demodex, both specific features of Demodicidiosis [5,6], (Fig.2). The fact that the dermoscopy of the other parts of the facial skin did not reveal any Demodex suggests the association of the parasite with this condition (Fig. 2, purple arrow).

The other dermoscopic findings of chrysalis structures, linear vessels, and few vessels crossing the white reticular network were consistent with the findings of Pseudolymphoma (Fig. 2). Vascular patterns depicting linear vessels across white reticular line suggests the histopathological architecture of dilated blood vessels and thin fibrous septa [7]. Pinkish background suggests underlying vascular proliferation and hyperplasia [6].

Human Demodex, a widely known ectoparasite of pilosebaceous follicle and sebaceous gland resides...
mainly on the face and head. Symptoms may develop when the follicles become heavily infested (>5/cm²), or when the mites penetrate the dermal tissue [6,8]. The pathogenesis in this case could be chronic antigen stimulation due to profuse infestation with Demodex leading to proliferation of lymphoid cells. As we could not elucidate any factors stimulating Pseudolymphoma in this case, we can infer that the dermoscopic finding of abundant Demodex is responsible for this pseudolymphomatous proliferation. To the best of our knowledge, we believe our report to be the first to represent a peculiar form of immunological reaction in the form of Pseudolymphoma to Demodex. Thus we feel that more case reports or studies are needed to consolidate the association between them.

Consent

The examination of the patient was conducted according to the Declaration of Helsinki principles.

REFERENCES