administration of multiple cycles of topical and systemic corticosteroid therapy, topical tazarotene, ciclosporin at a dose of 3 mg/kg/d (whose efficacy cannot be adequately evaluated due to treatment interruption after a month because of failure to attend follow-up), and methotrexate at a maximum dose of 20 mg/wk, which the patient continues to receive. Interestingly, despite hypertrophic LP being considered one of the most refractory variants, the lesions present on our patient’s legs responded very well to corticosteroid treatment.

In conclusion, we have described a patient with a rare variant of LP. This case exemplifies the broad clinical spectrum that this disease can present on the palms and soles. The patient developed keratosis punctata-type lesions limited to the palmar creases, a clinical manifestation not previously described, hyperkeratotic interdigital plaques mimicking a superficial fungal infection, and diffuse palmoplantar keratoderma with a marked deterioration of her quality of life. Despite generally being considered a self-limiting disease, the lesions in our case showed a recalcitrant course, with plantar lesions even more refractory to treatment than the hypertrophic LP lesions. The broad morphological variety of palmoplantar lesions, with absence of the classic LP papules, makes diagnosis difficult, and this disease must be included in the differential diagnosis of hyperkeratotic palmoplantar dermatoses. Histology, which shows the typical features of LP, is essential for diagnosis.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

Acknowledgments

Our thanks to the patient, who gave her written permission for publication of the images.

Ultrasound features of Primary Cutaneous CD4+ Small/Medium-Sized T-Cell Lymphoproliferative Disorder

ECografía del síndrome linfoproliferativo primario cutáneo T CD4+ de célula pequeña/mediana

Dear Editor:

Primary cutaneous lymphomas have a low incidence in the general population. The clinical presentation is very variable, often making the diagnosis unexpected for the dermatologist. Although the diagnosis of these lesions always requires histopathologic confirmation, skin ultrasound is an additional tool that can be helpful for the initial diagnosis of malignancy. We present a case of primary cutaneous CD4+ small/medium T-cell lymphoproliferative disorder (PCSM-TCLD) and its ultrasound findings.

A 55-year-old woman with a past history of hypothyroidism and dyslipidemia came to the emergency department for a pruritic lesion in the right scapular region; the lesion had grown rapidly in the previous 2 months. She reported no fever, asthenia, or weight loss, and she denied any previous lesions or trauma.

Physical examination revealed a solid, tender erythematous-violaceous nodule of 2 × 1.5 cm in the right scapular region (Fig. 1). The nodule was not adherent to deeper planes. A surgical drainage-aspiration procedure performed in the emergency department excluded the presence of fluid collections. There were no palpable lymph nodes or hepatosplenomegaly.

Skin ultrasound of the lesion was performed in dermatology outpatient clinic. Examination in B mode (18 MHz probe,
Because certain The however, 2

CASE

A, B-mode ultrasound, 18 MHz. Dermal nodule with extension into the subcutaneous cellular tissue, with a heterogeneous content and poorly defined borders. Lower echogenicity of the superficial and deep planes compared with the intermediate plane. B, Color Doppler ultrasound showing large-caliber vessels within the tumor.

MyLab 25 Gold, Esaote, Italy) revealed a dermal nodule of 20 × 15 × 11 mm, with deep extension into the subcutaneous cellular tissue. The nodule had a heterogeneous content, was not encapsulated, and had poorly defined borders (Fig. 2A). The superficial or dermal plane of the lesion and its deeper or hypodermal plane were noticeably more hypoechoic than the intermediate plane that separated them, and contained hypoechoic tubular tracts. Color Doppler examination revealed the presence of extensive neovascularization, with large vessels within the tumor (Fig. 2B).

These ultrasound findings supported the clinical suspicion of malignancy, and a 4 mm punch biopsy was therefore performed for histopathology study. Analysis of the sample showed a dense perivascular and peridnexal interstitial lymphocytic infiltrate that extended into the hypodermis and did not affect the epidermis; the infiltrate was formed of small/medium-sized lymphocytes with mild-to-moderate pleomorphism (Fig. 3, A and B). Immunohistochemistry was positive for CD2, CD3, CD4, CD5, and BF1 and negative for CD8, CD30, granzyme, perforin, CD56, CD57, CD20, and CD79. Molecular analysis detected a monoclonal rearrangement of the T-cell receptor gene that, together with the previous findings, was consistent with a diagnosis of PCSM-TCLD.

The widespread incorporation of skin ultrasound into dermatology outpatient clinics has led to the recent development of numerous applications, from the study of inflammatory diseases to the exploration of ultrasonic characteristics of a number of malignant tumors. However, little has been published on the ultrasound findings in cutaneous lymphoma.

Taking into account the clinical and histopathologic variability of PCSM-TCLD, certain diversity is to be expected in the ultrasound findings. Using studies performed on soft-tissue lymphomas as reference, it can be seen that a diffuse infiltration of atypical lymphocytes usually produces an ultrasound image with hypoechoic and heterogeneous areas with poorly defined borders, as was observed in our

Figure 1 Erythematous-violaceous subcutaneous nodule of 2 × 1.5 cm in the right scapular region.
patient. The presence of an intense neoangiogenesis on color Doppler appears to be a characteristic finding in soft-tissue lymphomas, and is typically more prominent than in other malignant tumors.3,10

The sonographic differentiation between skin metastases and other tumors can be complicated, but carries important prognostic implications for the patient. Such lesions often present clinical and ultrasound features similar to those described, and this must be taken into account.

In summary, we have presented a case of PCSM-TCLD and its ultrasound findings. These findings helped to orient the initial suspicion of malignancy in a clinically nonspecific lesion. We hope that progressive advances in cutaneous ultrasonography will enable us to better define the diagnosis of this type of tumors.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

References


E. Rodríguez-Lomba,* I. Molina-López, A. Pulido-Pérez, C. Ciudad-Blanco

Servicio de Dermatología, Hospital General Universitario Gregorio Marañón, Madrid, Spain

*Corresponding author.
E-mail address: enriquerlomba@outlook.com (E. Rodríguez-Lomba).

http://dx.doi.org/10.1016/j.adengl.2017.07.010
1578-2190/ © 2017 Elsevier España, S.L.U. and AEDV. All rights reserved.