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INTERESTING MEDICAL IMAGE

Erythematous Plaque in the Left Axillary Region

A diagnostic challenge where dermoscopy can help

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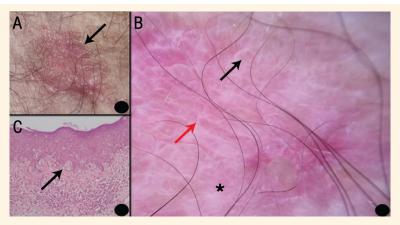


Figure 1: (A) Round erythematous plaque with slightly raised edges without scaling or ulceration, located on the left axilla (arrow: biopsy area); (B) dermoscopy showed milky red structureless areas, reticular white lines (red arrow) and white clods (black arrow). Dotted and linear vessels (asterisk) were the vascular pattern identified; (C) Haematoxylin & Eosin (H&E) stain of the epidermis with hyperkeratosis without dyskeratosis at ×5 magnification, with a component of dysplastic cells distributed singly and in clustered, with the following features (arrow): large cells with pale cytoplasm and irregular nuclei with visible nucleoli, most of them just above the epidermal basal layer, with others ascending to intermediate epidermal strata (H&E stain at ×4 magnification).

70-YEAR-OLD MALE PATIENT WAS PRESENTED in an outpatient dermatological clinic for a plaque on left axillae of unknown time of evolution. Physical examination revealed an erythematous plaque with no desquamative component [Figure 1A]. Dermoscopy showed thick reticular white lines, white clods and structureless areas, dotted and linear vessels and a sessile projection in the lower part of the plaque [Figure 1B]. Histological examination using a 4 mm punch biopsy revealed a hyperkeratotic epidermis without dyskeratosis, with intraepidermal infiltration of dysplastic cells distributed singly and in clusters [Figure 1C]. Immunohistochemistry staining of this tumoral component was positive for GCDFP-15, mammaglobin and CK7 and negative for HMB45 and S-100 protein, which was consistent with the diagnosis of extramammary Paget's disease (EMPD). Complementary examinations (body-TC, a complete blood test with haemogram, liver and renal function, ions, protein S100b and PSA; colonoscopy and mammary ecography) ruled out the presence of concomitant tumour. The lesion was completely removed through wide local excision and primary closure, with no local recurrence or distant metastasis

during the following 12-months. He is currently under long-term follow-up with periodic revisions every 6 months.

Comment

EMPD is an infrequent cutaneous adenocarcinoma with unknown incidence, which predominantly affects postmenopausal Caucasian women and Asian men aged between 60 and 80 years old. It is usually presented as a slow-growing rounded or oval erythematous plaque, asymptomatic or pruritic, located in genital, perianal or, less frequently, axillary regions.1 Dermoscopy is a non-invasive technique which raises suspicion of EMPD. Pigmented, whitish and reddish structures represent the main group of dermoscopy patterns. Glomerular and dotted vessels are the most common vascular patterns. Lava lake structures (BAW) and cloud-like structureless areas (WAW) were described by Payapvipapong et al.4 None of the patients had axillary lesions, practically all of them were located in the ano-genital region. This could explain the fact that BAW and WAW were not observed in the current patient. Histology allows

¹Dermatology Department, Hospital Universitario San Cecilio, Granada, Spain; ²Pathological Anatomy, Analizalab-HLA Inmaculada, Granada. Spain *Corresponding Author's e-mail: ismenios@hotmail.com to distinguish between EMPD and other diagnoses such as Langerhans cell histiocytosis, Bowen's disease, amelanotic melanoma and mycosis fungoides.1

The most relevant prognostic factor is the presence of underlying malignancy, either a contiguous tumour (23% of cases) or a distant one (8-46% of cases). Underlying cancer screening might include a complete physical examination with lymph node and breast examination. Complementary tests may include urine cytology and colonoscopy for both genders, PSA blood test and digital rectal examination in male patients and Papanicolaou test and mammography in female patients.2

Primary cases, like the current one, are usually indolent, with good survival rates. Wide local excision is the gold standard treatment, although imiquimod, photodynamic therapy or radiotherapy could be considered in non-surgical cases.^{1,3} Recurrence rates are considerably elevated regardless of the treatment, so a long-term follow-up based on a careful physical examination is highly recommended.1

The authors have obtained patient consent for publication purposes.

AUTHORS' CONTRIBUTION

All authors contributed equally in the conceptualisation, design, data acquisition, analysis and write up of the manuscript. All authors approved the final version of the manuscript.

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