Chronic, nonhealing leg ulcer

When this patient’s chronic stasis ulcer failed to respond to the usual treatment of dressings, elevation, and diuretics, our suspicions led us to an unexpected diagnosis.

AN 80-YEAR-OLD WOMAN with a history of hypertension, hyperlipidemia, psoriasis vulgaris with associated pruritus, and well-controlled type 2 diabetes mellitus presented with a slowly enlarging ulceration on her left leg of 1 year’s duration. She noted that this lesion healed less rapidly than previous stasis leg ulcerations, despite using the same treatment approach that included dressings, elevation, and diuretics to decrease pedal edema.

Physical examination revealed plaques with white micaceous scaling over her extensor surfaces and scalp, as well as guttate lesions on the trunk, typical of psoriasis vulgaris. A 5.8 × 7.2-cm malodorous ulceration was superimposed on a large psoriatic plaque on her left anterior lower leg (FIGURE 1). A 4-mm punch biopsy was obtained from the peripheral margin.

● WHAT IS YOUR DIAGNOSIS?
● HOW WOULD YOU TREAT THIS PATIENT?

FIGURE 1
Malodorous ulceration superimposed on a psoriatic plaque

A 5.8 × 7.2-cm ulceration developed in an area of scaling and violaceous erythema typical of the patient’s underlying psoriasis vulgaris on her left leg.
ulceration were all considered to explain this patient’s nonhealing wound. A biopsy was required to fully assess these possibilities.

Do’t overlook the possibility of malignancy. In a cross-sectional, multicenter study by Senet et al, 144 patients with 154 total chronic leg ulcers were evaluated in tertiary care centers for malignancy, which was found to occur at a rate of 10.4%. Similarly, Ghasemi et al demonstrated a malignancy rate of 16.1% in 124 patients who underwent biopsy; the anterior shin was determined to be the most frequent location for malignancy. The most common skin cancer identified within the setting of chronic ulcers is squamous cell carcinoma. Although rare, there are reports of BCC identified in chronic wounds.3-7

Morphological signs suggestive of malignancy in chronic ulcerations include hyperkeratosis, granulation tissue surrounded by a raised border, unusual pain or bleeding, and increased tissue friability. Our patient had none of these signs and symptoms. However, it is possible that she had a tumor that ulceraed and would not heal.

Which came first? It’s difficult to know in this case whether a persistent BCC ulcerated, forming this lesion, or if scarring associated with a chronic ulceration led to the development of the BCC.6 Based on biopsies taken at an earlier date, Schnirring-Judge and Belpedio concluded that a chronic leg ulcer could, indeed, transform into a BCC; however, pre-existing BCC more commonly ulcerates and then does not heal.

Treatment options
While smaller, superficial BCCs can be treated with topical imiquimod, photodynamic therapy, or electrodesiccation and curettage, larger lesions should be treated with Mohs micrographic surgery and excisional surgery with grafting. Inoperable tumors may be treated with radiation therapy and vismodegib.

Our patient. Once the diagnosis of BCC was established, treatment options were discussed, including excision, local radiation therapy, and oral hedgehog inhibitor drug therapy.8 Our patient opted to undergo a wide local excision of the lesion followed by negative-pressure wound therapy, which led to complete healing.
PHOTO ROUNDS

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