Photo Vignette

Hyperpigmented palmar plaque: An unexpected diagnosis of Bowen disease.

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Abstract:

An unusual case of pigmented Bowen disease on the palm is presented.

Case Report:

A 48-year-old man presented with a 15-year history of a persistent hyperpigmented plaque on his left palm. The plaque was asymptomatic and had never been treated because it had been diagnosed as a seborrheic keratosis initially. The patient presented with concern that the plaque had been enlarging rapidly over the past 6 months. There was no personal or family history of skin cancer or skin disease. Past medical history was non-contributory.

Physical exam revealed a 1.5 x 1.0 cm dark brown hyperkeratotic plaque on the palm of the left hand (Figure1). The surrounding skin was unremarkable and the remainder of the full body skin exam was normal. A shave biopsy of the plaque was performed and histologic examination revealed full-thickness epidermal atypia with loss of maturation (Figures 2a and 2b), consistent with Bowen disease (BD).

The lesion was surgically excised with no evidence of recurrence at 1 year.

Figure 1. Hyperpigmented palmar plaque.
**Discussion:**

Bowen disease, also known as squamous cell carcinoma in situ, is uncommon in African Americans. When it does occur, it typically presents as a scaly, well-defined plaque with a flat, velvety or verrucous surface that is often pigmented and may resemble melanoma [1-3]. In Caucasians, BD most commonly affects the head and neck, followed by the lower limbs and upper limbs [4]. In a review of 1001 cases, the palmar surface was never involved [4]. However, in African Americans, the majority of BD manifests on non-sun exposed skin, particularly the lower extremities [1, 2, 5].

Squamous cell carcinoma (SCC) also typically occurs on non-sun exposed areas in black patients [6, 7]. SCC is the most common skin cancer in African Americans and tends to be more aggressive, with higher rates of invasion and metastasis than SCC in Caucasians [1-3]. SCC-associated mortality has been estimated at 17-30% in African Americans [1, 7, 8]. Therefore, early diagnosis and management of BD is especially important in this patient population.

The lesion presented in this case was initially diagnosed as a seborrheic keratosis and consequently monitored for several years without intervention. However, rapid growth of the plaque raised concern for malignancy. The patient’s Fitzpatrick skin type, atypical location of the lesion, and presence of pigmentation made the clinical diagnosis challenging and ultimately prompted a biopsy.

It is important to note that seborrheic keratosis and BD can coexist. There are several reports of pigmented BD arising out of seborrheic keratosis [9-12]. A high index of suspicion is required for all atypical palmar lesions and biopsy is frequently warranted.

**References**


