



REVIEW

Skin cancer-associated genodermatoses in skin of color patients: a review

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Abstract

Skin cancers are associated with a large number of genodermatoses. Existing knowledge and guidelines on the presentations of these genodermatoses focus disproportionately on White patients. Our goal is to identify notable characteristics in location, frequency, and severity of cutaneous findings along with the median age of skin cancers in skin-of-color (SOC) patients with skin-cancer-associated genodermatoses to improve diagnosis rates. We searched for genodermatoses on six databases. Each case report or case series was reviewed, including reports, published in English, containing adult patient descriptions. Duplicate manuscripts were removed using EndNote. The following case-level data were collected from the manuscripts: age, gender, patient country or region of origin, author country/continent of residence, skin cancer-related, and other key dermatologic features. 381 published articles, with a total of 578 SOC patients, met criteria for inclusion. SOC patients can present with fewer classic findings, such as a lower incidence of basal cell carcinomas (44%) in SOC Gorlin syndrome patients than palmar pits (66%) and mandibular cysts (66%). Differences between SOC populations were also noted, such as leukoplakia being more common in Asian dyskeratosis congenita patients (80%) in comparison to African dyskeratosis congenita patients (44%). SOC patients also have varying onset of skin cancer depending on the genodermatosis, from a median of 25 years of age in Rothmund-Thomson syndrome to 53 in Muir-Torre syndrome. In this review, SOC patients with genodermatoses can have varying presentations. Being cognizant of these characteristics may lead to earlier diagnosis and interventions to mitigate skin-cancer-related morbidity in SOC patients.

Keywords General dermatology · Medical dermatology · Oncology · Basal cell carcinoma · Clinical research · Skin of color · Genodermatoses · Melanoma · Squamous cell carcinoma

Background

Cutaneous squamous cell carcinomas (SCCs) and basal cell carcinomas (BCCs) are common, with around five million annual cases in the United States alone [1]. Deaths from melanoma exceed eighty thousand cases annually [2]. Skin cancers can develop sporadically, or as part of known hereditary genodermatoses. Prior published studies and textbooks mainly focused on the clinical features of these dermatoses in White patients. Their incidence and presentation in

skin-of-color (SOC) patients have not been systematically studied.

As demographics in the United States continue to shift and become more racially diverse, the need for the medical community to address and reduce this knowledge gap becomes ever more pressing. Skin cancers in SOC often present atypically or with advanced stage, and consequently have worse prognosis, compared to White patients [3].

We conducted a case-level review and identified key characteristics in clinical presentations for skin-cancer-related genodermatoses in SOC patients. We hope to contribute to the much-needed knowledge base for the early detection and management of genodermatoses in SOC patients.

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