A Case of Juvenile Colloid Milium with Atypical Cutaneous Horn like Lesions in a Young Yemeni Patient

Abstract
Juvenile colloid milium is a rare degenerative dermatosis of keratinocytes manifesting before puberty. It has a chronic course, is detected primarily over sun-exposed areas, and is clinically characterized by the development of translucent, waxy, yellowish-amber papules and plaques containing gelatinous material and (histologically characterized) by the presence of eosinophilic, fissured material in the papillary dermis. We present the case of a 16-year-old Yemeni boy with juvenile colloid milium, who presented with an unusual variant of juvenile colloid milium with waxy transparent papules on the helices which resembled a cutaneous horn. This is the third case report from Yemen as the author has (previously) reported 2 cases in Yemeni sibling(s).

Introduction
Colloid milium (CM) is a very rare degenerative dermatosis of the dermal connective tissue and/or keratinocytes. Since its first description by Wagner in 1866, around 150 cases have been reported worldwide [1,2]. It is clinically characterized by the development of translucent, yellowish-amber papules and plaques, primarily over sun-exposed areas, from which viscous material can be expressed and (histologically characterized) by the presence of eosinophilic fissured material in the papillary dermis [2].

There are four recognized variants (adult, juvenile, nodular colloid degeneration, and pigmented types) [2-5]. The juvenile type is typically inherited and manifests before puberty. This type is exceptionally rare, with only 22 cases reported worldwide to date [6]. We present the case of a 16-year-old Yemeni boy with juvenile colloid milium with waxy transparent papules on the helices which resembled a cutaneous horn.

Case Report
A 16-year-old Yemeni boy, presented with skin lesions since the age of 8. He was otherwise healthy, and no other family member has similar skin condition. This patient lived in a rural area and was frequently exposed to the sun and petrochemicals (herbicides). He presented with lesions of varying morphologies including waxy (Figures 1a-1d), amber (Figures 2a and 2b), and acrochordon like papules (Figure 2c), and whitish flat papules (Figure 2d). Few flat whitish papules were also present over the dorsum of the index finger (Figure 2d). These lesions had grown gradually with age, both in size and number. The patient also presented with waxy transparent papules over both helices which resembled a cutaneous horn. This feature has not been previously reported in the literature.

Histopathological examination of skin from the cutaneous horn like papule showed pale pink homogenous material in the papillary dermis with typical splitting and fissures and the absence of a Grenz zone. The overlying epidermis was atrophic (Figures 3a and 3b).

Discussion
The adult type of CM develops after excessive sun exposure in
radiation in the development of colloid milium was supported by a report of the development of CM in a psoriatic patient treated with PUVA [12]. Some authors have proposed a papuloverrucous type as an occupational dermatosis triggered by both sun exposure and long-lasting contact with lubricating oils [4]. The standard treatments for CM include chemical peeling, dermabrasion, cryotherapy, and, newly, ablative and fractional-ablative lasers [13-15].

We treated our patient with a combination of a chemical peel for flat lesions and electrocautery for the larger lesions with excellent cosmetic results. He was advised to use sunscreen and to avoid contact with herbicides.

References