Keratoacanthoma of the nose coexisted with xeroderma pigmentosum in a Yemeni child: A rare case

Mohamed Ahmed Al-Kamel1,2

1Regional Leishmaniasis Control Center (RLCC), P.O. Box 12692, Sana’a, Yemen, 2Dermatology Department, Sana’a University Hospital, Sana’a, Yemen

Corresponding author: Dr. Mohamed Ahmed Al-Kamel, E-mail: dralkamel@hotmail.com

INTRODUCTION

Xeroderma pigmentosum (XP) is a rare, progressive, degenerative, autosomal recessive genodermatosis. Keratoacanthoma (KA) is a rapidly growing skin tumor, occurring primarily in older men. XP associated with KA has been infrequently reported. Here, we report a rare case of KA of the nose associated with XP in an 8-year-old Yemeni child. A KA in child should suggest consideration of XP. Early medical follow up can prevent developing, and help to diagnose tumors at a curable stage before they spread out.

CASE REPORT

In February 26, 2016, an offspring of consanguineous parents, 8-year-old Yemeni tribal male was presented to office complaining of a big mass on the nose. On inspection, the child was mentally retarded, uncooperative and photosensitive. Dermatologic examination showed (Figs. 1 and 2); leonine face; an about 33 mm × 30 mm, well-circumscribed, hemispherical tumor on the right ala of his nose, with a rough surface, brown patches and telangiectasias (closely resembles Keratoacanthoma); xerosis, different-sizes hyper- and hypo-pigmented freckle-like macules and some spots of actinic keratosis, on the face and the other exposed parts of his body. On ocular examination photophobia, bilateral corneal opacity and conjunctivitis, were observed. History revealed that; pigmentary lesion started to develop at the first year after birth; tumor started to develop around 18 months ago; and a history of continuous sun exposure.

Diagnosis of Xeroderma pigmentosum (XP) associated with keratoacanthoma was made on the basis of clinical findings and family history.
childhood and caused by exposure to ultraviolet radiation that shows that the skin is sensitive to light. It frequently manifests as extreme photosensitivity (usually the first sign in about 60% of patients), skin desquamation, freckle-like pigmentation in sun-exposed areas as early as two years of age (in 40% of patients), and may result in tumors on the skin and viscera, as well as damage to the eyes (in approximately 40% of XP patients). Therapeutic procedures for XP are based on the protection from sunlight exposure, and surgery is an effective therapeutic regimen for XP patients with complicated tumors. Prognosis is poor, and the majority of patients do not reach adult, but die from metastatic cutaneous malignancies [1-3].

Most clinical features are subject to amount of exposure to sunlight, the complementation group, the mutation, and some unknown factors. Factors aggravating the skin lesions include sunny weather, outdoor living, fair skin, smoking, poor accessibility of diagnostic amenities and improper shield from sunlight [1].

Keratoacanthoma (KA) is a rapidly growing cutaneous tumor that most commonly presents as a dome-shaped nodule with a central keratin-filled crater skin tumor, regarded as midway between a benign and malignant tumor or as a malignant tumor, equivalent to a highly differentiated squamous cell carcinoma (SCC). These tumors occur mostly on the head and face of middle-aged and elderly adults with fair complexions. There have been few reports of the associations of KA with XP. XP associated with KA is extremely rare in children. A KA in child should suggest consideration of XP [1-4].

To sum up, We reported a rare case of KA of nose coexisted with XP in a young Yemeni child.

CONCLUSION
Patients with xeroderma pigmentosum (XP) are likely to develop skin tumors like keratoacanthoma (KA). Early medical follow up can prevent developing, and help to diagnose tumors at a curable stage before they spread out.

REFERENCES

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