Familial Facial disfigurement in Multiple Familial Trichoepithelioma

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ABSTRACT
Trichoepithelioma is an uncommon, benign hamartomatous tumor of the pilosebaceous follicle. Presenting as multiple papules and nodules on face and neck, they pose a significant cosmetic problem in affected individuals. Familial involvement of this dermatosis occurs in an autosomal dominant pattern, the locus being located on chromosome 9p21, which causes multiple facial lesions in family members and their kins. Here, we report a case of multiple familial trichoepithelioma causing considerable disfigurement of the face.

Keywords: Benign hamartomatous tumor, Pilosebaceous follicle, Locus 9p21, Trichoepithelioma

CASE REPORT
A 35-year-old female patient presented to the skin out-patient department with a history of multiple skin coloured elevated lesions on the face. These papules started to first appear in the childhood and increased in size and number during her adolescence. The lesions were intermittently pruritic and developed slight tenderness after scratching. There was history of similar lesions in her elder brother and her son. A few lesions had started appearing in her daughter who was presently a teenager. The patient denied a family history of any other cutaneous disorder or neoplasms. The patient had been otherwise healthy without any other medical problems, medications or any systemic complains.

General examination revealed moderate built, average nourishment levels and vital signs. On local dermatological examination there were numerous skin coloured, dome shaped papules, present mainly on the face, nose, cheeks and forehead [Table/Fig-1]. The papules were variable in size, averaging 1-3mm in diameter, of fibroelastic consistency and without any loci of pus. Some of the papules had developed redness, probably due to inflammation following scratching in the itchy areas [Table/Fig-2]. The scalp, neck, trunk, buttocks and extremities were unaffected. Skin appendages were normal.

A skin biopsy from the forehead lesion was taken under local anaesthesia and sent for histopathological examination. It revealed nest of small basaloid cells with peripheral pallisading around eosinophilic centre containing amorphous material. These nests are surrounded by fibroblastic tissue [Table/Fig-3]. Microbiological examination of the excised tissue in the region of inflammation was sterile and ruled out any infective etiology.

DISCUSSION
Trichoepitheliomas are benign hamartoma of the pilosebaceous follicle, composed of immature islands of basaloid cells. However the name trichoepithelioma is preferred because it indicates that the differentiation of this tumor is directed towards hair structure. They usually appear in childhood or early adolescence and involve limited areas of the body, most commonly the face, scalp or neck and less often the trunk [1,2].

Three types of trichoepitheliomas are known; solitary, multiple and the desmoplastic variety. Multiple hereditary trichoepitheliomas were first described by Brooke and Fordyce in 1892 and are also known as epithelioma adenoides cysticum [3]. When presenting as a lone cutaneous finding, it is called Trichoepithelioma Papulosum Multiplex. Alternatively, they may be associated with other cutaneous findings such as cylindromas, spiradenomas, and milia, also known as Brooke-Spiegler syndrome [4].

Multiple trichoepithelioma occurs in an autosomal dominant inherited genodermatosis, known as multiple familial trichoepithelioma. The annual incidence in US has reported to be between 2.14-2.7 cases per year; with a strong predilection for females [5]. Even though both sexes receive normal genes in an autosomal dominant pattern, lessened chromosomal penetrance theory could support the reason for higher occurrence in females. The gene has been localized on
Multiple familial trichoepithelioma of familial origin present a significant cosmetic, social and psychological impairment in females due to their presenting age, sex and involvement of exposed areas i.e. head and neck, an aggressive or invasive treatment should only be reserved for limited lesions that are overtly enlarged or a cause of significant disfigurement of face. With the passage of time as most of lesions of multiple trichoepithelioma subside, a wait and watch strategy along with assurance is a more advisable strategy, instead of aggressive ablation techniques.

REFERENCES


