

Perifollicular nodule on the face of a young man

A 22-year-old man presented with an asymptomatic slow-growing swelling on his face for the preceding 1 year. There was no systemic symptom and no history of similar illness in his family. He underwent electrodesiccation for the lesion by a dermatologist 1 year back. However, the lesion recurred within 2 months with some residual scarring. On examination, a solitary skin-colored, shiny, firm, and non-tender nodule was seen on the right mandibular area of his face. A wisp of short, woolly, immature hairs was

seen emerging from a central orifice of the nodule [Figure 1]. Perilesional scarring was also present. There was no other mucocutaneous abnormality and systemic examination was non-contributory.

An excision biopsy was performed followed by histopathologic examination [Figure 2].

WHAT IS YOUR DIAGNOSIS?



Figure 1: A solitary shiny nodule with a wisp of short, immature hairs emerging from a central orifice of the nodule

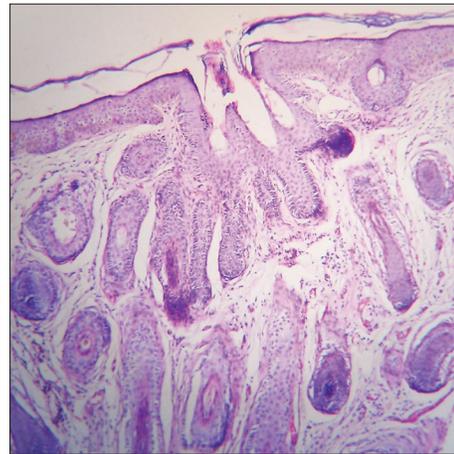


Figure 2: A central cystic space opening to the skin surface with fully formed or nearly fully formed follicles radiating from it (H and E, x100)

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Answer: Trichofolliculoma

Histopathologic examination showed a central cystic space with infundibular cornification and an opening to the skin surface from which fully formed or nearly fully formed follicles radiated. This histological picture along with the distinctive morphology of the lesion confirmed the diagnosis.

DISCUSSION

Trichofolliculoma usually presents as a papule or nodule, located on the face, scalp, upper trunk, vulva, and rarely on the eyelids.^[1-3] The lesion often mimics a basal cell carcinoma, molluscum contagiosum, dermal nevus, epidermoid cyst, or trichoepithelioma.^[1,4] A tuft of white vellus hairs emanating from the nodule, when present, gives a distinctive morphological appearance to this tumor.^[3] Rarely, trichofolliculoma may present as a large nodule or cyst.^[1] Trichofolliculoma is common in the middle age, rare in childhood,^[4] and at least one case has been reported to occur congenitally.^[5] There is no definitive racial or gender predilection of this disease.^[4]

The nosology of trichofolliculoma is less clear-cut. Although often regarded as a “tumor” of the hair follicle, it does not represent a true neoplasm. Rather, it should be considered as a benign follicular hamartoma.^[1] Although the precise etiology of trichofolliculoma is uncertain, these tumors are not associated with any systemic disease or other skin disorders and they are believed to represent abortive differentiation of pluripotent skin cells toward hair follicles.^[4] Usually, these tumors develop spontaneously, but a prior history of trauma at the tumor site may rarely be present.

Histological feature of trichofolliculoma comprises of an abnormally dilated pilosebaceous canal containing multiple poorly formed hairs with multiple pilosebaceous-like structures opening into it.^[3] Fine needle aspiration cytology of trichofolliculoma may reveal cohesive, branching, keratinized squamous cell clusters admixed with sebaceous cells.^[6] Trichofolliculoma is characterized by proliferation of abnormal CK15-positive hair follicle stem cells, which basically differentiate toward the outer root sheath and attempt to make hair but lose the proper differentiation.^[7] Trichofolliculoma is essentially a benign condition, but malignant transformation with perineural invasion has been reported in a single case report.^[8] Folliculosebaceous cystic hamartoma is

believed to be a larger cystic variant of trichofolliculoma in a late stage of development by some authors.^[9] According to another view, these two disorders are distinctive entities. They may develop under a similar pathogenesis, differing from each other only in the direction of differentiation.^[10] Another variant of trichofolliculoma with prominent sebaceous lobules and referred to as “sebaceous trichofolliculoma” is not of any additional clinical significance.^[1] Treatment of trichofolliculoma is usually not required.^[1] At times, trichofolliculoma may be disfiguring, and the pulling away of hairs and other injuries may cause inflammatory reactions requiring treatment.^[2] Surgical excision is usually the treatment of choice.^[2,3] The prognosis is excellent, although recurrence can occur at the primary site rarely.^[4]

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REFERENCES

1. McCalmont TH. Adnexal neoplasms. In: Bologna JL, Jorrijo JL, Rapini RP, editors. *Dermatology*. 2nd ed. Philadelphia: Mosby Elsevier; 2008. p. 1693-1712.
2. Carreras B Jr, Lopez-Marin I Jr, Mellado VG, Gutierrez MT. Trichofolliculoma of the eyelid. *Br J Ophthalmol* 1981;65:214-5.
3. Mackie RM, Calonje E. Tumors of the skin appendages. In: Burns T, Breathnach S, Cox N, Griffiths C, editors. *Rook's Textbook of Dermatology*. 8th ed. Oxford: Wiley-Blackwell; 2010. p. 53.1-53.44.
4. Howard MS, Smoller BR. Trichofolliculoma. *e-Medicine Dermatology*. Available from: <http://emedicine.medscape.com>. [Last accessed on 2010 Aug 2].
5. Ishii N, Kawaguchi H, Takahashi K, Nakajima H. A case of congenital trichofolliculoma. *J Dermatol* 1992;19:195-6.
6. Alexander MP, Makhija P, Jayaseelan E. Fine needle aspiration cytology of trichofolliculoma: A case report. *Indian J Pathol Microbiol* 2007;50:870-2.
7. Misago N, Kimura T, Toda S, Mori T, Narisawa Y. A reevaluation of trichofolliculoma: The histopathological and immunohistochemical features. *Am J Dermatopathol* 2010;32:35-43.

8. Stern JB, Stout DA. Trichofolliculoma showing perineural invasion. Trichofolliculocarcinoma? Arch Dermatol 1979;115:1003-4.
9. Schulz T, Hartschuh W. Folliculo-sebaceous cystic hamartoma is a trichofolliculoma at its very late stage. J Cutan Pathol 1998;25:354-64.
10. Misago N, Kimura T, Toda S, Mori T, Narisawa Y. A reevaluation of folliculosebaceous cystic hamartoma: The histopathological and immunohistochemical features. Am J Dermatopathol 2010;32:154-61.

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