



CASE FOR DIAGNOSIS

[Translated article] Pink Tumor on the Forehead



Tumor rosado en la frente

Medical History

A 43-year-old woman with Fitzpatrick skin type II and no personal or family history of skin cancer presented with a tumor nodule of 4 months' duration on her forehead; no other physical findings were observed.

Physical Examination

The nodule was a pink hemispheric friable tumor with a diameter of 6 mm and a tendency to bleed (Fig. 1). Dermoscopy showed central red blood cells and peripheral glomerular and hairpin vessels against a whitish background. Other findings included a hemorrhagic area and the fabric fiber sign (Fig. 2).

Histopathology

Histopathologic examination with hematoxylin and eosin staining showed hyperkeratosis, parakeratosis, papillomatosis, and acanthosis due to the presence of mature basaloid and squamous cells, with the latter tending to form characteristic eddies. Granular cells with perinuclear vacuolation and keratohyalin granules of varying sizes were observed in some of the superficial layers (Figs. 3 and 4).



Figure 1

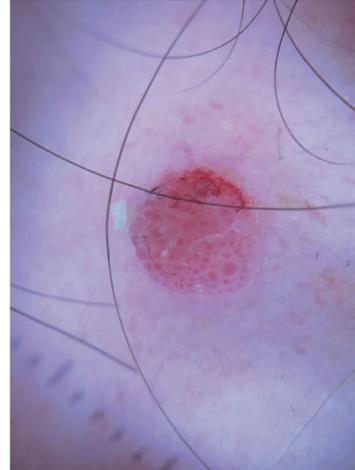
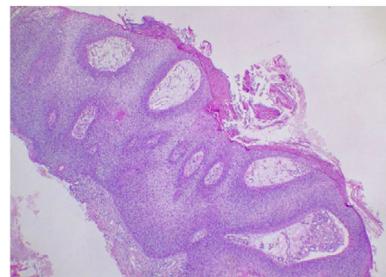
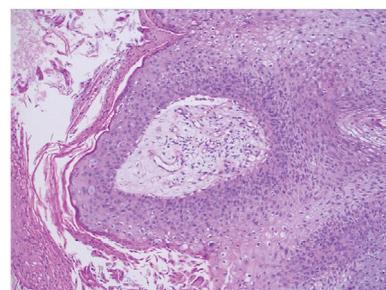


Figure 2

Figure 3 Hematoxylin-eosin (original magnification $\times 100$).Figure 4 Hematoxylin-eosin (original magnification $\times 200$).

What Is Your Diagnosis?

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Diagnosis

Inverted keratosis follicularis.

Clinical Course and Treatment

The nodule was initially treated by shave biopsy, but it recurred. It disappeared completely after 3 cycles of cryosurgery administered at 3-week intervals.

Comment

Inverted keratosis follicularis is a rare benign adnexal tumor originating from the infundibular portion of the hair follicle.¹

It is most often located in the head and neck region and is slightly more common in men. It typically presents as a solitary unpigmented exophytic tumor that grows progressively over months or years. The differential diagnosis includes various keratinizing lesions, such as squamous cell carcinoma, viral warts, and seborrheic keratosis, and other tumors such as basal cell carcinoma.² Pigmented forms of inverted keratosis follicularis can simulate melanoma.^{3,4}

Diagnosis is based on histologic findings, as clinical forms can mimic a range of conditions. Histopathology shows papillomatosis, acanthosis, and characteristic squamous eddies.⁵

Dermoscopy is not pathognomonic, but it can help reach a diagnosis. The most common findings are radially arranged hairpin vessels surrounded by a whitish halo with a keratotic center or a yellow-whitish amorphous central area surrounded by vessels in a radial pattern; less common findings, seen in our patient, are pink blood cells surrounded by a whitish halo.⁶

Excision or destruction is the standard treatment for inverted follicular keratosis given its benign nature. Resolution following application of imiquimod cream 3 times a week for 8 weeks has been reported.⁷

Conflicts of Interest

The authors declare that they have no conflicts of interest.

References

1. Muñoz-Garza F, González Ramírez R. Queratosis folicular invertida: un dilema clínico, histológico y dermatoscópico. Dermatol Rev Mex. 2015;59:161–5.
2. Armengot-Carbo M, Abrego A, Gonzalez T, Alarcon I, Alos L, Carrera C, et al. Inverted follicular keratosis: dermoscopic and reflectance confocal microscopic features. Dermatology. 2013;227:62–6.
3. Jaada N, Zaraa I, Chelly I, Cheikhrouhou R. Pigmented tumor in nostril. Dermatol Pract Concept. 2011;1:11.
4. Thom G, Quirk C, Heenan P. Inverted follicular keratosis simulating melanoma. Aust J Dermatol. 2004;45:55–7.
5. Gutierrez V, Marriott G, Lopez Acosta C, Talledo Mera M, Salinas Muñoz C. Queratosis folicular invertida. Reporte de un caso, clínica e histopatología. Dermatol Venez. 2020;58:27–30.
6. Llambrich A, Zaballos P, Taberner R, Terrasa F, Bañuls J, Pizarro A, et al. Dermoscopy of inverted follicular keratosis: study of 12 cases. Clin Exp Dermatol. 2016;41:468–73.
7. Karadag A, Ozlu E, Uzuncakmak T, Akdeniz N, Bengu C, Berkant O. Inverted follicular keratosis successfully treated with imiquimod. Indian Dermatol Online J. 2016;7:177–9.

A. Oxilia^{a,*}, V.M. González^b, M. Larralde^b

^a Dermatología Oncológica y Dermatoscopia, Hospital Alemán, CABA, Argentina

^b Servicio de Dermatología, Hospital Alemán, CABA, Argentina

* Corresponding author.

E-mail address: aleoxilia@icloud.com (A. Oxilia).