

skINsight

SECTION EDITOR: JAMES M. GRICHNIK, MD, PhD;
 ASSISTANT SECTION EDITORS: ASHFAQ A. MARGHOUB, MD; ALON SCOPE, MD

In Vivo Confocal Microscopic Pattern of Fibroepithelioma of Pinkus

Caterina Longo, MD, PhD; H. Peter Soyer, MD; Patrizia Pepe, MD; Alice Casari, MD; Elisabeth M. T. Wurm, MD; Pascale Guitera, MD; Giovanni Pellacani, MD; Dermatology Unit, Arcispedale Santa Maria Nuova (Drs Longo and Pellacani), and University of Modena and Reggio Emilia (Drs Longo, Pepe, Casari, and Pellacani), Reggio Emilia, Italy; The University of Queensland School of Medicine, Princess Alexandra Hospital, Brisbane, Australia (Drs Soyer and Wurm); and Sydney Melanoma Diagnostic Centre, Royal Prince Alfred Hospital and Melanoma Institute, Sydney, Australia (Dr Guitera)

IN VIVO CONFOCAL MICROSCOPY WAS USED TO visualize 8 cases of fibroepithelioma of Pinkus (FeP). Dermoscopically, there were 5 hypopigmented cases that were characterized by white intersecting lines associated with a vascular pattern and 3 pigmented cases that showed ulceration, patchy hypopigmented and hyperpigmented areas, and dark-brown dots.

In all cases, in vivo confocal microscopy revealed a distinct architecture that was visible at the level of the dermoepidermal junction. The hallmark of FeP was a fenestrated pattern constituted by “holes” that corresponded to the fibrous stroma (**Figure**, A and B [asterisks]), which was outlined by the tumoral islands or cords (the “frame” of the holes) (Figure, A and B, top [arrows]) that were particularly evident in hypopigmented FeP (Figure, A). Histopathologic examination revealed

that both hypopigmented and pigmented lesions were characterized by tumor islands and anastomosing strands of basaloid cells (Figure, A and B, top [arrows]), usually with palisading at the periphery, surrounding a fibrous stroma (Figure, A and B, top [asterisks]). In pigmented lesions, a variable amount of plump, bright cells (Figure, C, bottom [arrows]) corresponding to melanin-laden macrophages (Figure, C, top [arrow]) were also present. Histopathologically, all tumors demonstrated strands of basaloid keratinocytes located within an overwhelming fibrous stroma.

In sum, in vivo confocal microscopy makes it possible to diagnose FeP with a greater level of confidence because it reveals cords with palisading cells, which are characteristic of basal cell carcinoma, although they are arranged in a peculiar fenestrated pattern that corresponds well with the histopathologic features.

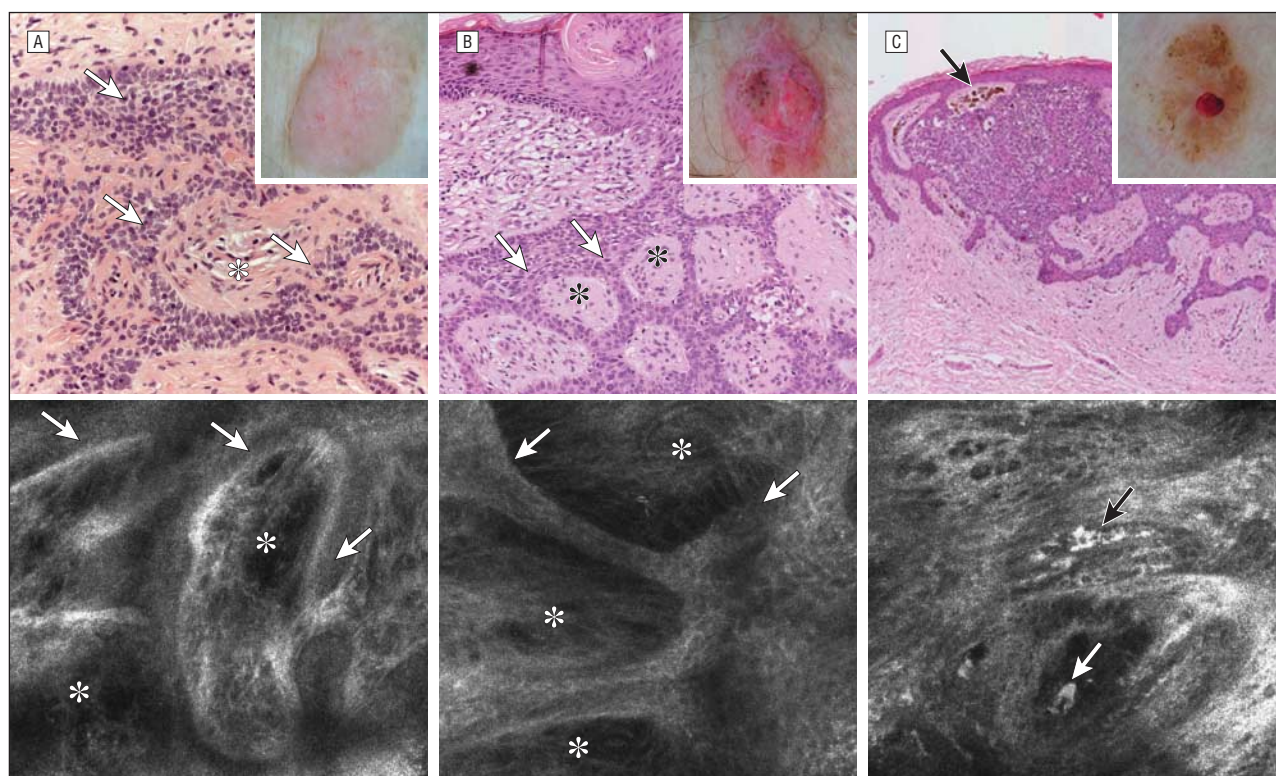


Figure.