

Melanoma With Comedo-Like Openings: A Rare Dermoscopic Finding

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Introduction

Seborrheic keratosis-like melanomas (SK-like melanomas) are difficult to diagnose and easily overlooked, especially among elderly patients with multiple clinically typical SKs which are usually not dermoscopically assessed and are removed with destructive measures without histopathological confirmation [1]. Therefore, systematic dermoscopic evaluation of all SK-like lesions should be made in order to avoid misdiagnoses, delayed treatment, and medicolegal consequences.

The term *SK-like melanoma* refers to melanoma that clinically and/or dermoscopically looks like SK, even if it is verrucous on histopathology report [1]. Comedo-like openings are predominantly found in SK, less frequently in Unna nevi, and very rarely in malignant melanoma, and they histopathologically correlate with keratin plugs within dilated follicular openings [1].

Case Presentation

We present a case of a 65-year-old woman with a lesion on her back that presented as ugly duckling sign. It was

asymmetrical, nonulcerated, 5 mm in diameter, and slightly elevated with 3 different colors (dark brown, light brown, and gray; Figure 1). Dermoscopy showed striking asymmetry in shape, color, and structure, with gray-brown blotches, large light brown and pinkish structureless area, and unevenly distributed and sharply defined brown globules of varying size and shape grouped in asymmetrical clusters which resembled comedo-like openings (Figure 2). Complete excision was performed and histopathology revealed melanoma, Breslow thickness 1 mm with SK-like features and no signs of perineural or intravascular invasion (Figure 3).

Conclusions

SK-like melanoma can be dermoscopically very challenging and in case of any suspicion, histopathological confirmation is mandatory [1]. Although dermoscopic criteria have been described for differentiating melanocytic and nonmelanocytic skin lesions, some features can be confusing if simultaneously present in the same lesion [1]. Since comedo-like openings represent a typical feature of SK, they might mislead the clinician to a wrong diagnosis. In a study of melanomas

resembling SK, Carrera et al [1] found the presence of comedo-like openings in 30.6% cases, as well as milia-like cysts in 22.4%, yellowish keratin in 31.3%, and scaly and hyperkeratotic surface in 33.6% [1]. Dermoscopy allows correct diagnosis of melanoma in more than 80% of clinically SK-like melanomas [1]. The main dermoscopic features identified as helpful are blue-black sign, blue-white veil, pseudopods or streaks, and pigment network [1]. Combining features of polarized light and nonpolarized light dermoscopy is beneficial since nonpolarized permits visualization of structures located in the upper skin layers, while polarized permits visualization of deeper structures which then enhances the conspicuity of different structures and may help reduce the rate of diagnostic errors [2].

In our case the diagnosis was straightforward due to melanoma-suggestive dermoscopic clues. SK-like melanomas represent a potential diagnostic pitfall; therefore, dermatologists should be aware of “errors of perception,” referring to a possibility of being drawn to one prominent but potentially misleading SK dermoscopic feature, while other subtle clues of melanoma in the visual field can be overlooked [2]. Complete dermoscopic evaluation of all quadrants of the lesion and careful analysis of all criteria should be undertaken to ensure that they are all consistent with the final diagnosis [2].

References

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Figure 1. Clinical finding of malignant melanoma: asymmetrical, nonulcerated, 5 mm in diameter, and slightly elevated with 3 different colors (dark brown, light brown, and gray). [Copyright: ©2019 Đorđević Brlek et al.]



Figure 2. Dermoscopic finding of malignant melanoma: asymmetrical in shape, color, and structure, with gray-brown blotches, large light brown and pinkish structureless area, unevenly distributed and sharply defined brown globules of varying size and shape grouped in asymmetrical clusters that resemble comedo-like openings. [Copyright: ©2019 Đorđević Brlek et al.]

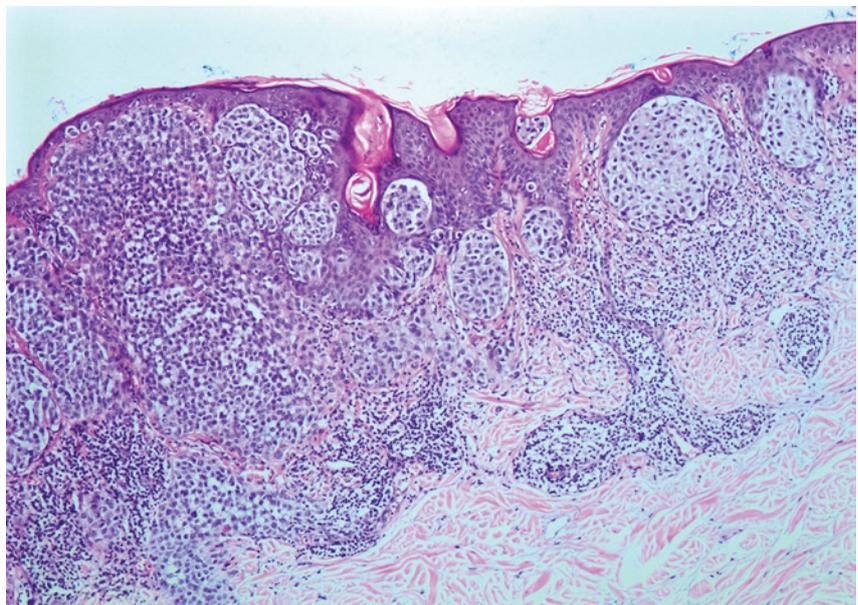


Figure 3. Histopathology of malignant melanoma: proliferation of atypical melanocytes singly and in nests within the epidermis, papillary and superficial portion of reticular dermis with smaller nests of atypical melanocytes located within follicular ostia filled with keratin plugs (hematoxylin and eosin, $\times 10$). [Copyright: ©2019 Đorđević Brlek et al.]