Case Report

A female in her seventies, skin phototype II, presented to her gynecologist with a two-month history of a lesion on the inside of her right labia minora. Her past medical history was significant for rheumatoid arthritis requiring ongoing treatment with methotrexate for 20 years and adalimumab for 10 years. Her gynecologist prescribed, based on the suspicion of a herpes simplex infection, acyclovir 5% cream and, after some days, a hydrocortisone 1% / clotrimazole 1% cream for two weeks. Because no change was visible at the follow-up examination, a biopsy was taken of a part of the nodule. Based on the histopathological diagnosis of an amelanotic melanoma (Breslow thickness of 1.3 mm), the patient was referred to dermatology for further assessment. Polarized dermoscopy revealed a distinct asymmetric, sharply demarcated homogenous white papule (4 x 5 mm) as well as polymorphous vessels.

Conclusion: Dermoscopy may aid in the diagnosis of amelanotic mucosal melanomas. Our case revealed a structureless white area and polymorphous vessels. Additional clues to the diagnosis were the advanced age of the patient and the clinical presentation of a new lesion.
referred to dermatology for closer examination. Clinically a whitish papule on the inside of her right labia minora was visible (Figure 1).

Under polarized dermoscopy a distinct asymmetric, sharp demarcated homogenous white papule (4 x 5 mm) with polymorphous vessels was present (Figure 2).

Histologic examination revealed malignant melanoma mucosal type with densely packed atypical spindly-shaped melanocytes with hyperchromatic nuclei, confirmed by positivity of anti-MelA antibody (Figure 3).

Conclusion

This case suggests that amelanotic mucosal melanoma may reveal diagnostic clues upon dermoscopic examination. A multicenter study that examined the dermoscopic appearance of mucosal lesions revealed that the combination of structureless zones with blue, gray or white color(s) is useful for the diagnosis of malignant lesions [1]. The highest diagnostic sensitivity was achieved when considering only the presence of blue, gray, or white color [1-3]. Furthermore, polymorphous vessels is also a hint for malignancy, particularly melanoma [4,5]. Additional clues to the diagnosis of our case included the age of the patient and the presentation of a new lesion [1].

Pigmented and non-pigmented lesions at the mucosa are difficult to examine clinically and dermoscopically. Therefore, the correct diagnosis is often delayed, leading to a poor prognosis of malignant tumors, especially mucosal melanomas [6]. Possible differential diagnoses of our case include herpes infection, condylomata acuminata, condyloma lata of syphilis, inflamed cysts or glands, and squamous cell carcinoma.
This observation encourages the use of the dermoscope at the mucosa even in non-pigmented lesions to diagnose a malignant process as soon as possible. All suspicious lesions should undergo prompt biopsy for definitive diagnosis.

References


