Facial petechiae as a complication of diagnostic endoscopy

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We present here the case of a 31-year-old man that developed facial petechiae after unsedated upper gastrointestinal endoscopy. The lesions disappeared completely after 5 days. In English literature, only one patient similar to ours has been reported. The most likely explanation of this condition is a Valsalva maneuver that raised the intrathoracic or abdominal pressure and resulted in a rupture of capillaries in the skin. Endoscopists should therefore be aware of this rare and reversible complication.

Key words
facial petechiae, endoscopy

Abstract

A 31-year-old man underwent upper gastrointestinal endoscopy due to dyspeptic complaints. There was no history of systemic disease, drug, or alcohol usage. An experienced endoscopist performed the procedure in about 7 minutes without sedation. The patient’s tolerance was poor and he suffered from repeated retching and coughing during the examination. He reported a frightening appearance on his face immediately after the procedure. On examination, multiple petechiae and a diffuse prominent edema on the face were seen (Fig. 1). Subconjunctival hemorrhage was also observed. Blood studies, including complete blood count, biochemistries, prothrombin time, and partial thromboplastin time were all normal. Although the rash started to fade spontaneously the following day, a local steroid ointment was prescribed on the 2nd day at his request and the lesions disappeared completely after 5 days.

The differential diagnosis of facial purpura includes many rheumatological, dermatological, infectious, and traumatic entities (1). If there is a component of an underlying vascular, coagulopathic, or neoplastic condition, an emergent therapeutic approach is mandatory. However, miscellaneous benign causes of facial purpura such as forceful coughing, vomiting, or Valsalva’s maneuver have also been reported (1–3). The name “mask phenomenon” has been used to describe this condition (2). In English-language literature, only one patient similar to ours has been reported to have complained of postendoscopic facial purpura that resolved without treatment (4). The most likely explanation of this condition is a Valsalva maneuver that raised the intrathoracic or abdominal pressure and...
resulted in a rupture of the capillaries in the skin. Endoscopists should therefore be aware of this rare and reversible complication.

**Figure 1. Numerous petechiae with redness and edema on the face.**

**REFERENCES**


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Dermoscopy of eccrine acrospiroma masquerading as nodular malignant melanoma

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Eccrine acrospiroma, better known as eccrine poroma, is a benign adnexal neoplasm of the skin. Its clinical aspect can masquerade as some other nodular and cystic lesions. The current dermoscopy literature offers very few case studies. Moreover, these very few examples present a totally different appearance pattern compared to the one we examined. Its homogeneous blue pattern suggested the better-known nodular malignant melanoma; in fact, this dermoscopic appearance was due to the Tyndall effect.

Introduction

Eccrine acrospiroma is a benign sweat gland neoplasm that occurs as a single mass in the skin with a nodular or cystic structure. The color varies from that of the surrounding skin to red or reddish blue, and the covering skin may be smooth or thickened and verrucous. Clinically, the tumors lack diagnostic specificity, but they should be included in the differential diagnosis of nodular and cystic lesions of the skin. In contrast, the cells and structure are histologically distinctive (1). Dermoscopy is an effective and absolutely necessary non-invasive diagnostic technique for the study of pigmented lesions. Its use has substantially contributed to improving the early diagnosis of skin melanoma.

Case report

A 79-year-old man in fair general condition was physically examined for an asymptomatic 0.7 × 0.7 cm single nodule on his left leg (Fig. 1). It had been present for approximately 6 months and had rapidly increased in size during the same period. This nodule was dark bluish, well circumscribed, firm, non-fluctuant, and mildly tender (Fig. 2). The lesion was neither painful nor itchy and there was no bleeding. A skin examination did not show any other lesions with the same features. A provisional differential diagnosis was made of a nodular malignant melanoma or an atypical blue nevus because of the fast-growing features with a homogeneous blue pattern on dermoscopy.

Dermoscopically, the nodular lesion was typified by a homogeneous pattern of structureless bright blue coloration surrounded by a very subtle pigmented network, without vascular elements or a regression struc-
ture. No other dermoscopic structures were present (Fig. 3).

On the basis of this analysis, we confirmed the clinical diagnosis and decided to carry out a histological examination.

The nodule was surgically removed and sent for histopathology. A 2.2 × 1 cm surgical lozenge was excised with a thinly protruding lesion with a maximum diameter of 0.7 cm. A microscopic analysis revealed a lobulated, benign adnexal tumor derived from distal excretory sweat duct with a prominent clear cell component and a diagnosis of eccrine acrospiroma, also known as hidradenoma, was made.

Conclusion

Acrospiroma eccrine is a tumor derived from eccrine sweat gland epithelium and may be intra-epidermal (hidro-acanthoma simplex), juxta-epidermal (ecrine poroma), or intradermal (dermal duct tumor). Such tumors are comparatively uncommon. There is no indication that heredity or external agents cause these tumors (2). They may recur but rarely undergo malignant change (1).

In epiluminescence microscopy, the perception of a blue hue is generally considered a clue to malignancy, especially in clinically equivocal melanocytic skin lesions (3).

Acrospiroma eccrine may clinically mimic a number of benign and malignant skin tumors. Dermoscopy improves the clinical diagnosis of many pigmented and non-pigmented skin tumors, but to date little is known about the impact of dermoscopy in this type of diagnosis (4).

In our experience, these kinds of dermoscopic aspects with rapid evolution of the clinical pathway recommend surgical excision with a histological examination. A diagnosis of eccrine acrospiroma is very uncommon and its discovery in previous studies demonstrated varied aspects, especially regarding dermoscopy. In fact, one previous study dermoscopically described this kind of lesion as having a polymorphous vascular pattern composed mainly of pink to reddish, irregularly shaped and sized structures reminiscent of milky-red areas or red lagoons. Hairpin vessels, dotted vessels, and some linear irregular vessels were also present. This dermoscopic aspect suggested a diagnosis of amelanotic melanoma to the authors (5). In other cases, the dermoscopic features of pigmented
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poromas, except the maple leaf–like structures and spoke-wheel areas, were similar to those of pigmented basal cell carcinomas (6).

In our case, we found for the first time a homogeneous blue pattern linked to this kind of adnexal neoplasm, clinically masquerading as a nodular malignant melanoma. This color feature could be explained through a simple observation. The cystic nature of this tumor and its localization in a dermal context create this aspect and this dermoscopic pattern based on the Tyndall effect due to the cystic lesion liquid. In the literature this is the first description of this phe-nomenon associated with this very uncommon benign neoplasm.

However this case report confirms the great difficulty in formulating a clinically and dermoscopically correct diagnosis, and points to the possibility of this histopathological diagnosis after excision of a lesion with a blue homogeneous dermoscopic finding.

Finally, this uncommon neoplasm can be included in a differential diagnosis in evaluating lesions with these particular features, both clinically and dermoscopically.

Fig. 4 a) Hystological examination. A lobulated, benign adnexal tumor derived from distal excretory sweat duct.

Fig.4 b) Hystological examination. A prominent Clear Cell component was discovered, it represents a typical feature of Eccrine Acrospiroma.

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