Hobnail hemangioma on the knee: A rare entity

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Sir,

A 8-year-old girl presented with a 4-year history of a single, asymptomatic plaque on the knee. The lesion started as an erythematous papule and later gradually increased in size. There was no history of fluid filled lesions, trauma, or insect bite preceding the lesion. Cutaneous examination revealed a single non-tender oval plaque of 2x2 cm, present on the right side of the knee (Fig. 1). The plaque had a violaceous center and brownish hue at the periphery, giving a targetoid appearance. On dermoscopy, there were lagoon-like areas, rosettes and linear white structures surrounding these lagoon-like areas were prominent (Fig. 2). A pigmented network was seen at the periphery. A skin biopsy, performed on the knee, showed irregularly dilated vascular structures in the superficial and mid-dermis lined by prominent hobnail endothelial cells. In the deeper dermis, rather narrow neoplastic vessels with collagen dissection were found (Fig. 3). Finally, a diagnosis of hobnail hemangioma was made.

Hobnail hemangioma (HH) is a benign vascular lesion showing peculiar endothelial cells’ morphology, confined to the superficial and mid dermis. It was first described as targetoid hemosiderotic hemangioma in 1988 [1]. It may be seen both in patient are in their 20s or 30s, and it is rarely in children. Typically presents as a small and solitary papule or macule, red, purple, or brown, located more frequently on the proximal extremities or the trunk [1,2]. The characteristic targetoid appearance is owing to peripheral hemorrhage and hemosiderin deposition. The most typical dermoscopic findings are homogenous central area, red and dark lagoon-like, peripheral red-violaceous ring, whitish structures, peripheral vascular structures, yellowish intermediate areas, and a peripheral pigment network [3,4]. Histopathologic

Figure 1: Clinical aspect: oval plaque of 2x2 cm on the right side of the knee. The plaque had a violaceous center and brownish hue at the periphery, giving a targetoid appearance.

Figure 2: Dermoscopic aspect: lagoon-like areas, rosettes and linear white structures surrounding these lagoon-like red areas with a delicate pigmented network at the periphery.
Consent

The examination of the patient was conducted according to the principles of the Declaration of Helsinki.

The authors certify that they have obtained all appropriate patient consent forms, in which the patients gave their consent for images and other clinical information to be included in the journal. The patients understand that their names and initials will not be published and due effort will be made to conceal their identity, but that anonymity cannot be guaranteed.

CONFLICT OF INTEREST

The authors declare no conflict of interest

REFERENCES


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