Letter to Dermatology

Dermatologic Features of Clear Cell Hidradenoma

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Clear cell hidradenoma is an uncommon benign cutaneous neoplasm [1]. Clinically, it might be difficult to make a correct diagnosis of this tumor because its differential diagnosis includes various adnexal tumors. However, to date little has been known about the dermoscopic features of clear cell hidradenoma. Herein, we describe possible dermoscopic features of clear cell hidradenoma.

An 88-year-old woman presented with a 4-month history of a nodule on her right knee. It enlarged gradually in size, and occasional bleeding was also noted. Physical examination revealed an 11 × 8 mm, dome-shaped, flesh-colored nodule with ulceration on its surface (fig. 1). On dermoscopy, amorphous whitish areas with some linear or hairpin-like vessels were seen at the periphery. Reddish purple areas were also present (fig. 2). The nodule was surgically excised under local anesthesia. Histologically, the tumor was composed of solid tumor cell nests with abundant cystic spaces or ductal structures. In solid nests, many clear cells and some slightly dark cells were seen. Most of the cystic spaces contained homogenous eosinophilic material, and some of them were filled with red blood cells (fig. 3). Based on these findings, a diagnosis of clear cell hidradenoma was made.

Clear cell hidradenoma, also known as nodular hidradenoma or solid cystic hidradenoma, occurs most commonly on the head, neck and anterior trunk [2]. Ulceration is seen occasionally [3]. Histologically, the tumor is composed of a lobulated mass of clear cells and various-sized tubular laminae and abundant cystic spaces.

Dermoscopy is now widely used as a tool to diagnose many pigmented and nonpigmented cutaneous tumors [4]. In the present case, dermoscopic examination revealed reddish purple areas and some linear or hairpin-like vessels on the surface of the tu-

Fig. 1. A dome-shaped, flesh-colored nodule with ulceration.

Fig. 2. On dermoscopy, amorphous whitish (arrowhead) areas with some linear vessels and hairpin vessels (black arrows) were seen. Reddish purple areas were also present (asterisks).
It has been reported that polymorphous vascular patterns were seen in various benign or malignant skin tumors [5, 6]. However, it is of interest that dermoscopic reddish purple areas seemed to correspond to cystic spaces with hemorrhage histologically. The dermoscopic features of our case were clearly different from those of hemangioma, pyogenic granuloma or poroma. Although we could not find any dermoscopic findings of clear cell hidradenoma in the English literature, similar reddish purple areas were reported to be seen in 2 cases of clear cell hidradenoma in a Japanese textbook of dermoscopy [7]. We have reviewed 18 cases of clear cell hidradenoma in our laboratory. Remarkably, hemorrhage in cystic spaces was observed in 11 of 16 cases (68.8%) histologically (not shown). Therefore, we speculate that hemorrhage may be caused easily in clear cell hidradenoma by mechanical trauma, resulting in reddish purple areas on dermoscopy. Our findings could constitute a clue for the diagnosis of clear cell hidradenoma.

References


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