Dermoscopic Appearances in the Superficial and Deep Type of Infantile Hemangioma

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ABSTRACT

Infantile hemangioma is clinically classified as superficial, superficial and deep (mixed), and deep. Dermoscopy can be used for analyzing vascular structure and for classifying infantile hemangioma. Here, we focus on vascular features of the superficial and deep type of infantile hemangioma and show the three characteristic dermoscopic forms, mostly reddish, diffuse reddish, and cerebriform reddish.

Keywords: Dermoscopy; Infantile Hemangioma; Classification

1. Introduction

Precise diagnosis and evaluation are essential to design treatment strategies for infantile hemangioma and capillary malformations. Dermoscopy is useful for immediate and precise diagnosis for infantile hemangioma without proliferation (infantile hemangioma precursor) from capillary malformation of port-wine stain [1-3]. Infantile hemangioma is clinically classified as superficial, superficial and deep (mixed), and deep. Dermoscopy can distinguish vascular structure between the superficial and mixed types [4]. Here, we depict the three vascular-dominate features in the mixed type of infantile hemangioma, mostly reddish, diffuse reddish and cerebriform reddish.

2. Case Series

Case 1 was an 11-month-old boy with a dark reddish slightly elevated plaque 20 × 16 mm in size on the right chest (Figure 1(a)). An erythematous macule was present at birth as a dark reddish macule and gradually grew into a plaque lesion. Dermoscopy showed reddish lesions (arrow) and focal pinkish annular lesions (dotted arrow) (Figure 1(b)).

Case 2 was a 2-month-old girl with a dark reddish elevated plaque 35 × 15 mm in size on the left upper back (Figure 1(c)). An erythematous macule appeared one week after birth and gradually grew into the plaque lesion. Dermoscopy showed a diffuse reddish form composed of dilated red vessels surrounded by a pinkish structure (Figure 1(d)).

Case 3 was a 6-month-old girl with a dark reddish, obviously elevated plaque with a cerebriform elevation 30 × 15 mm in size on the left abdomen (Figure 1(e)). The eruption was present at birth and gradually developed into the elevated plaque lesion. Dermoscopy revealed cerebriform components (arrow), including dilated red vessels surrounded by a pinkish structure (dotted arrow).
vessels surrounded by pinkish structure (dotted arrow) (Figure 1(f)).

3. Discussion

We previously summarized the dermoscopic features of polymorphous vascular structures in infantile hemangioma, a superficial type with a polymorphous vascular structure with no obvious red linear vessels or red dilated vessels, and a mixed type with polymorphous vascular structure with red linear and red dilated vessels [4]. Here, we focus on the dermoscopic appearances of vascular-dominant features of the mixed type infantile hemangioma. Dermoscopy can subdivide a mixed type into polymorphous vascular forms [3], mostly reddish, diffuse reddish, and cerebriform reddish.

As shown previously as well as here, dermoscopy can be used to classify infantile hemangioma as either superficial or mixed, and to subdivide the mixed type as either mild to severe.

REFERENCES


