Verrucous haemangioma: a diagnosis to consider

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DESCRIPTION

The authors report a case of an 11-year-old boy with a congenital lesion on the left leg, initially described as a blue macule which progressed to a verrucous pigmented plaque (figure 1). MRI (figure 2) showed local infiltration of the lower dermis and subcutaneous tissue. Histopathological examination (figure 3) showed hyperkeratosis, irregular acanthosis, papillomatosis and vascular proliferation in the superficial dermis, deep dermis and subcutaneous fat tissue compatible with a verrucous haemangioma (VH).

VH is a rare congenital vascular anomaly. The International Society for the study of vascular anomalies classifies vascular anomalies as vascular neoplasms or vascular malformations. In verrucous haemangiomas, categorisation as a neoplasm or malformation cannot be established definitely. Its classification is still unclear because it exhibits clinical features similar to those seen in vascular malformations, but expresses an immunoprofile similar to vascular neoplasms (WT1 and Glut-1 positivity).1

The lesion is usually noted at birth or during childhood but unlike other haemangiomas does not undergo spontaneous involution. They can be found in the head, trunk and limbs, although in the literature the most commonly reported sites are the legs. It initially appears as a bluish macule that later gets an erythematous-violaceous colour, and following trauma and secondary infections, often evolves into a verrucous plaque/nodule.2

The principal differential diagnosis is performed with angiokeratoma and circumscribed lymphangioma. The final diagnosis of verrucous haemangioma is performed by histopathological examination, although the clinical correlation is necessary for the correct diagnosis. Histologically they resemble angiokeratoma, however, in contrast to this, the vascular spaces in VH also affect the lower dermis and subcutaneous tissue.3

Learning points

▸ Verrucous haemangioma (VH) classification is still unclear because it exhibits clinical features similar to those seen in vascular malformations, but expresses an immunoprofile similar to vascular neoplasms.
▸ VH should be considered in the differential diagnosis of vascular lesions of the lower limb. The main differential diagnosis because of its clinical and histological similarities is with angiokeratoma.
▸ Conventional surgery or a combination of surgery with sclerotherapy and laser are reported in the literature as treatment of VH.
Early diagnosis and intervention may be important in selected patients to a better cosmetic outcome. Owing to their deep component it requires a wide excision to ensure free margins and possible recurrences. Conventional surgery, sclerotherapy, laser or a combination of these techniques can be tried.4

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Competing interests None.

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