Dermoscopy of Kaposi’s Sarcoma presenting as Longitudinal Erythronychia

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Abstract

Kaposi’s sarcoma (KS) is a rare multifocal angioproliferative disorder of the vascular endothelium. Subungual localization of KS is very rare and under-diagnosed. In this article, we report the first description of the dermoscopic features of nail KS presenting as a longitudinal erythronychia. KS needs to be added into the differential diagnosis of longitudinal erythronychia of the nail unit.

Keywords: Dermoscopy; Kaposi; Sarcoma; Histology; Nail Diseases.

KS is a rare multicentric angioproliferative disorder of endothelial origin that usually occurs in patients with immunodeficiency [1]. The subungual location of KS presenting as a longitudinal erythronychia has not been reported in the literature and our case seems to be the first.

The presence of a red-purplish longitudinal band at onychoscopy is in favor of a matrix localization, more precisely in proximal matrix given the interruption of lunula.
and the absence of interval between the emergence of the band and the proximal ungual fold. The overflow of the purple color on the proximal fold can be explained by an invasion of the surrounding structures. This aspect is similar to the micro-Hutchinson sign of melanoma.

The differential diagnosis of this subungual form of Kaposi’s disease include all diseases presenting as a longitudinal erythronichia like onychopapilloma, ungual Bowen’s disease, glomus tumor of the matrix, subungual verrucous dyseratoma and subungual amelanotic melanoma. Only histology can confirm the diagnosis and eliminates a Bowen’s disease, particularly in elderly patients.

Subungual KS is an under-diagnosed location. To the best of our knowledge, this is the first description of the dermoscopic features of nail Kaposi’s disease presenting as a longitudinal erythronychia. The combination of red-purplish band and red micro-Hutchinson sign. It might be a useful clue to include KS into the differential diagnosis of longitudinal erythronychia.

Figure 1. Longitudinal erythronychia of the first left big toe with erythematous-purplish cutaneous plaques.

Figure 2. Nail Kaposi’s disease dermoscopic features: (A): Longitudinal red-purplish band starting from the matrix with a degradation of the color approaching the free edge of the nail. (B): Purplish spot on the proximal fold simulating a “red micro Hutchinson sign” (circle).

Figure 3. Intra-opérative dermoscopy showing a purplish homogenous area.

Figure 4. Kaposi disease, histologic findings: (A): Spindle cells proliferation forming irregular slits with some inflammatory infiltrates. (B): Perl's positive staining. (C): CD34 positive expression. (D): HHV8 positive nuclear expression.

References