



DERMOSCOPY AND SKIN IMAGING

## DOUBLE DOTTED LINE RIDGE PATTERN IN ANGIOMAS ON VOLAR SKIN: A CASE SERIES

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**Background:** Parallel pigmented lines on the ridges of volar skin is associated with melanoma. Exceptions to this include brown dots on the ridges as seen in congenital nevi (ie peas-in-a-pod pattern). In addition, the double dotted line furrow pattern has been associated with nevi. Pink pigmentation seen in volar angiomas also appears with a double dotted line pattern. However, unlike nevi these dots appear on the ridges and unlike melanomas, they spare the space of the eccrine openings.

**Observation:** Three volar angiomas diagnosed in our clinic and three volar angiomas reported in the literature reveal pink dots along each side of the ridge with the center of the ridge remaining clear; sparing the eccrine openings. The anatomy of volar skin reveals that the vessels in the angioma are located in the papillary dermis on each side of the rete ridge associated with the eccrine gland. This explains the reason that angiomas on volar skin manifest a double dotted line parallel ridge pattern.

**Key message:** Angiomas on volar skin manifest a pattern that we suggest be called the double dotted parallel line ridge pattern. This may be diagnostic of volar angiomas since our experience with amelanotic melanoma on volar skin did not reveal such a pattern. The amelanotic melanomas on volar skin revealed diffuse redness and vessels on the ridges including the space around the eccrine opening.

