

DERMATOPATHOLOGY

LINEAR ASYMPTOMATIC CUTANEOUS PILOLEIOMYOMA

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Background: Cutaneous leiomyomas are uncommon benign smooth muscle neoplasms of the skin which arise from arrector pili, vascular, genital and mamillary smooth muscles. Piloleiomyoma is a dermal tumor that originates from the arrector pili muscles. Multiple lesions are regarded as more frequent than solitary lesions. The lesions usually occur as grouped pink, red or brown painful nodules. The most common involved sites of piloleiomyomas are the extensor surfaces of the extremities and the trunk. These benign lesions usually appear in the second or third decades of life. Congenital piloleiomyomas are extremely rare.

Observation: A 23-year-old male patient presented with asymptomatic red-brownish papules in a linear arrangement on his left leg. The lesions started appearing at the age of 2 years and were few in number to begin with involving only the left thigh. The number of lesions had gradually increased to involve the lower leg on the same side. No history of important or hereditary diseases in the family was reported. Physical examination revealed an red-brownish papules with a linear arrangement on the left leg. No ulceration or necrosis was seen on the surface. No prominence thicker hairs or hyperpigmentation was found. Histopathological examination showed bundles of bland fusiform mesenchymal cells arranged in interlacing patterns in the reticular dermis. There was no mitotic activity, necrosis or atypical cells. Immunohistochemical demonstrated smooth muscle differentiation of the tumor cells by diffuse cytoplasmic positivity of smooth muscle antigen and desmin. A diagnosis of cutaneous piloleiomyoma was made. Since there was no pain and the patient had multiple lesions, we didn't take any treatment.

Key message: Depending on the Histopathological examination, A diagnosis of cutaneous piloleiomyoma was made.