Title: Generalized Cutaneous Piloleiomyoma: A rare clinicopathological variant

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INTRODUCTION:

Cutaneous Leiomyomas are rare benign tumors arising from the Arrector pili muscle of hair follicles. We describe a case of an 18-year-old unmarried male who presented with multiple skin-colored lesions since one year that started as erythematous, raised, pea-sized eruptions over the right hand, which gradually increased in size and number over the next one month. On examination, there were multiple soft to firm, fixed and tender, disseminated papulo-nodules 5mm-2cm in size over the extensor aspects of extremities, chest, upper back and trunk. Oral and genital mucosae were normal. Ice cube test was found to be positive in larger lesions. No history of similar complaints in family/first-degree relatives. A punch biopsy was performed and the patient was subsequently diagnosed as a case of *Piloleiomyoma*. A careful clinical assessment led to the correct diagnosis and management in this case.

MATERIALS AND METHODS:

We conducted a clinicopathological and immunohistochemical study, which is complemented by a literature review.

RESULTS:

Microscopically, the section showed a thinned out epidermis with stratified squamous epithelium. Foci of hypertrophied nerve bundles and ganglionic cell collections were seen in the deep dermis. Morphological and limited IHC panel features were consistent with low-grade spindle cell lesions. S-100 stain was Non-immunoreactive with a score of zero. Immunohistochemically the spindle cells were positive for alpha-Smooth Muscle Actin (SMA).

CONCLUSION:

Piloleiomyoma is a rare clinicopathological variant of leiomyoma. Early diagnosis and intervention can help in proper work up and effective management.



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BIOGRAPHY:

Dr. Chandni Jain is pursuing MD in Dermatology, Venereology and Leprosy in ERA University, Lucknow as a second year postgraduate student. She has been actively involved in research activities and has three papers published to her name. She has also completed one short-term studentship research program under Indian Council Of Medical Research (ICMR), Delhi.

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