



DERMOSCOPY AND SKIN IMAGING

REVISITING WHITE ROSETTES IN THE SKIN OF COLOUR

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Introduction: Rosettes are peculiar structures only observed with polarized dermoscopy and are defined as four white points, arranged as a four leaf clover. Rosettes are not considered lesion specific and are thought to arise from Interaction of the polarized light with narrowed or keratin filled adnexal openings has been suggested as the morphological correlate. Others suggested that rosettes correspond to alternating focal hyperkeratosis and normal corneal layer and keratin filled openings. Rosettes are an optical effect of crossed polarization by concentric fibrosis or horny material.

Objective: This paper attempts to characterize rosettes and compile their presence in various disorders in skin of colour. The study also documents the non- specificity of white rosettes in dermatological disorders.

Materials and methods: 34 consecutive patients during dermoscopic examination using the DermLite DL3N(3Gen, Inc., San Juan Capistrano, California, USA.) and optical zoom by Samsung Galaxy phone series were found to have white rosette structures, they were reported and documented.

Results: White rosettes were noted in multiple skin conditions like:

Discoid lupus erythematosus of the scalp, molluscum contagiosum,, sarcoidosis, actinic keratosis, trichoepithelioma and cutaneous carcinomas to name a few. With regards to occurrence they were more common in lesions on sun exposed areas. Most patients showing rosettes on the lesions were in the age group of 35-45 years. There was no gender variation in the existence of rosettes.

Conclusion: Rosettes seen on polarized dermoscopy may be found as a primary finding or an additional/ adjuvant finding. The significance of this structure may reestablish itself based on the specificity of its characterization.

