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Assessment of immunohistochemical aspects in papulopustular

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In recent years, the role of cellular receptors that lead to the production of nuclear factor kappa B in the etiopathogenesis of acne vulgaris (AV) has been studied, with a growing number of new therapies clinical trials. Therefore, it is important to contribute with immunohistochemical analysis description in AV to best compare this treatments result.

Methods: 19 male patients with papulopustular acne without any treatment for at least 30 days were included in this study and back inflammatory lesions biopsy were made for immunohistochemical analysis in all of them. The cells stained with antibodies to receptor-activated receiver proliferator gamma (PPAR- γ) and nucleotide-binding oligomerization domain-like receptors (NOD) 1 e 2 were analyzed by optical microscopic reading of light held by two experienced observers, subjectively, and the results grouped into non-existent expression (0), low (1), medium (2) and high (3) immunological cells in the epidermis (EP), sebaceous glands (SG) and hair follicles (HF). The data were assessed by

median (M), with minimum (mn) and maximum (max) values [M (mn, max)].


Results: To PPAR- γ there were found values EP 2 (0,3), SG 2 (1,3) and HF 1(0,3); to NOD1, EP 3 (1,3), SG 2 (1,3) and HF 2(0,3) and to NOD2, EP 2 (1,3), SG 2 (0,3) and HF 1(0,2).

Conclusions: It seems that these receptors are well distributed em key structures in papulopustular acne and therapeutic opportunities for pharmacological modulation must be explored

Speaker Biography

Clarissa Prati is an Italian-Brazilian Dermatologist with an MSc in Clinical Medicine. Currently, she is a PhD student in Health Sciences, São Paulo, SP, Brazil, and Mentor in Pediatric Dermatology at Pontificia Universidade Católica RS/São Lucas Hospital, Porto Alegre, RS, and Brazil. She also has a private office in Porto Alegre, RS, and Brazil, wherein she explores her expertise in clinical and cosmetic dermatology, aside of being the President of State of Rio Grande do Sul's section of the Brazilian Society of Dermatology.

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