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Assessment of cutaneous effects secondary to oral supplementation with omega-3, -6 and -9 exclusive or associated with tetracycline, in the skin of patients with papulopustular acne - Preliminary results

Introduction: The sebaceous glands secretion in acne vulgaris (AV) is composed of lipids with a decrease of free fatty acids (FFA), especially linoleic acid (AL). It unprotects the glandular epithelial wall, which is assaulted by FFA hydrolyzed of triglycerides by the P. acnes lipase. The role of cellular receptors that lead to the production of nuclear factor kappa B in the etiopathogenesis of AV has been studied in new therapies clinical trials.

Hypothesis: Oral supplementation of AL in patients with AV interferes with the expression of the receptor-activated receiver proliferator gamma (PPAR- γ).

Methods: Nineteen patients with papulopustular acne received for 90 days: Group A, 300mg/day of lymecycline; Group B, 540mg gamalinoleico acids, 510mg linoleic and oleic 1200mg/day; Group C: groups A+B. In the initial and final visits, inflammatory lesions biopsies were made for immunohistochemical analysis. The cells stained with antibody PPAR- γ were analyzed by two experienced observers and the results grouped into non-existent expression (0), low (1), medium (2) and high (3) in the epidermis, sebaceous glands and hair follicles. The results

obtained before and after the treatments were compared, as well as the groups with each other, with data assessed by median.

Results: There was a reduction tendency in the PPARG marking of the interanexial epithelium in the Group C (median values: 2,5 before and 1,5 after treatment).

Conclusion: Even though this study has limits inherent to the restricted sample, it's seems like lymecycline works better when associated with AL supplementation in the papulopostular acne treatment.

Speaker Biography

Clarissa Prati is an Italian-Brazilian Dermatologist. She has completed her MSc in Clinical Medicine. Currently, she is a PhD student in Health Sciences, São Paulo, SP, Brazil, mentor in Pediatric Dermatology at Pontific Universidade Católica RS/São Lucas Hospital, Porto Alegre, RS, Brazil. She has also a private office in Porto Alegre, RS, 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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