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Prevalence of thyroid disorder in psoriasis patients

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Background: Psoriasis is associated with multiple other comorbidities, including metabolic disorders such as obesity (Obs), Thyroid gland diseases (ThD) and diabetes mellitus (DM) but no study has been performed metabolic disorders in Russian population of Psoriasis (PsO) patients.

Background: Psoriasis is a multifactorial disease, many genetic and environmental factors have role in its pathogenesis. It is a hyper proliferative disorder with significant morbidity rate. Some hormones implicate a potential role for example thyroid hormones. It seems these hormones play their roles via epidermal growth factors. Another theory was proposed to explain thyroid hormones therapeutic effect in psoriasis based on their immunity and anti-oxidative potential.

Materials & Methods: This is a case-control study and was done on 56 participants including 26 patients and 30 normal as controls. Data were concluded based on thyroid function test including T3, T4 and TSH.

Results: Statistical analyses performed with SPSS version 21. Findings statistically show significant differentiation between patient and control groups and hypothyroidism among patients was found more than control ones. T3 level was significantly increased in controls than patients 111 ± 46 versus 76 ± 30 . Thyroid indices including T3, T4 and TSH were not significantly different between nail psoriasis and other ones. In this study no correlation was found between psoriasis severity and thyroid hormones' level.

Conclusion: Finally, based on studies' finding psoriatic patients have hypothyroidism, but different studies showed different hormone impairment for example T4, T3 and TSH. More investigation is needed to evaluate these hormones precisely and to suggest thyroid hormones as a psoriasis treatment modality.

Biography

Zahra Azizian has completed her Medical Doctor degree from Islamic Azad University of Medical Sciences. She is currently pursuing Dermatology Residency.

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