



PSORIASIS

SKIN TISSUE EXPRESSION AND SERUM LEVEL OF THYMIC STROMAL LYMPHOPOIETIN: AN ANALYSIS STUDY IN PSORIASIS PATIENTS

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Introduction: Thymic stromal lymphopoietin (TSLP) has been known to be associated with allergic diseases. It is also suggested that TSLP has a role in autoimmune disease such as psoriasis, but the associated pathways is not known. There is little information on TSLP in psoriasis vulgaris patients.

Objective: In this study, we investigated TSLP level in serum of psoriasis vulgaris patients compared to healthy donors. We were also determined TSLP expressions on lesional and non-lesional skin of psoriasis vulgaris patients.

Material and Methods: The study was performed in human subjects using serum and skin sample. We analyzed blood samples that collected from psoriasis patients and healthy volunteers for measuring the level of TSLP using ELISA. Samples were also collected from lesional and non-lesional skin biopsy of psoriasis patients for TSLP examination using reverse transcription-polymerase chain reaction (RT-PCR).

Result: Serum TSLP levels were significantly higher in psoriasis patients (287.40 pg/dL) as compared to controls (118.55 pg/dL) (P 0.000). Expression of TSLP was higher in the skin lesions (1.90) compared to the non-lesions (1.76), but statistically not significant different (P >0.05).

Conclusions: This study concluded that serum TSLP levels in psoriasis patients are higher than normal controls and expression of TSLP is higher in skin lesions compare to the non-lesion of psoriasis patients. It is suggested that TSLP may play a contributory role in the pathogenesis of psoriasis vulgaris, but the exact role remains unclear.

