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Association of serum Th1 and Th17 related cytokines and autoantibodies with Posner-Schlossman syndrome

Jun Zhao, Tianhui Zhu, Xiaosheng Huang and Shiming Peng
Jinan University, China

Posner-Schlossman Syndrome (PSS) shares some clinical features with uveitis and open angle glaucoma. Cytokines and autoantibodies have been associated with uveitis and open angle glaucoma. However, the role of serum cytokines and autoantibodies in the pathogenesis of PSS remains unknown. This study aimed to evaluate the associations of type 1 T helper (Th1) and Th17 related cytokines and autoantibodies with PSS. Peripheral blood serum samples were collected from 81 patients with PSS and 97 gender and age-matched healthy blood donors. Th1 and Th17 related cytokines, including interleukin-1 β (IL-1 β), IL-12, tumor necrosis factor- α (TNF- α), interferon- γ (IFN- γ), IL-6 and IL-17 were determined by double antibody sandwich ELISA. Antinuclear Antibody (ANA), Anti-Keratin Antibody (AKA) and Anti-Neutrophil Cytoplasmic Antibody (ANCA) were detected by indirect immunofluorescence assay. Anti-Cardiolipin Antibody (ACA)-IgG, ACA-IgM, ACA-IgA, anti-double stranded DNA (anti-dsDNA) and anti-cyclic citrullinated peptide antibody (anti-CCP) were detected by indirect ELISA. Serum levels of IL-1 β , IL-12 and IL-6 in PSS patients were significantly lower than those in controls ($P < 0.018$). There was no significant difference in serum levels of TNF- α , IFN- γ and IL-17 between the PSS and control groups ($P > 0.12$). Positive rate of serum anti-dsDNA in PSS patients was significantly higher than that in the control group ($P = 0.002$, $P_c = 0.018$), while the other autoantibodies were not significantly different from those in the control group ($P > 0.09$). These results suggest that IL-1 β , IL-12, IL-6 and anti-dsDNA may contribute to the pathogenesis of PSS.

Biography

Jun Zhao has completed his PhD from Jinan University. He is a Chief Doctor with more than 20 years of experience as an ophthalmologist and as a vice president in Shenzhen Eye Hospital affiliated to Jinan University, a specialized eye hospital. He has published more than 20 papers in reputed journals.

doctorzhaojun@163.com

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