

عنوان مقاله:

Comparison of Serum Changes of Interleukin-17A and Interleukin-21 Between Schizophrenic Patients and Healthy Individuals

محل انتشار:

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خلاصه مقاله:

Background: Immunological alterations in schizophrenic patients have been considered during last decade. There are no remarkable reports on the changes of IL-17A and IL-21 in schizophrenic patients. Therefore, the purpose of this study was to evaluate changes of serum IL-17A and IL-21 in schizophrenic patients in comparison with healthy controls. Methods: In the present study serum levels of IL-17A and IL-21 in 30 patients with schizophrenia before treatment and three months after treatment were measured by enzyme-linked immunosorbent assay (ELISA) and compare to 30 match healthy control group. Results: Serum levels of IL-21 in schizophrenic patient was significantly higher than control group ($P= 0.001$). Serum levels of IL-17A in the schizophrenic patients had no significant changes than the control group ($P= 0.4$). Serum levels of IL-17A in patients with schizophrenia three months after treatment than before treatment had no significant change ($P=0.7$) and IL-21 serum levels in schizophrenic patient three month after treatment was not significant changed in comparison with this group before treatment ($P= 0.06$). Conclusions: The serum levels of interleukine-21 is elevated in schizophrenic. Results of this study showed that IL-21 might be involved in the pathologic mechanism of schizophrenia.

کلمات کلیدی:

.Keywords: Immunity, Interleukin-17A, Interleukin-21, Schizophrenia

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