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Search	Association of the Expression of IL-4 and IL-13 Genes, IL-4 and IgE Serum Levels with Allergic Asthma
≫ About this Journal	Jalil Tavakkol Afshari, Reza Farid Hosseini, Sara Hosseini Farahabadi, Farhad Heydarian, Mohammad Hossein Boskabady, Rasoul Khoshnavaz, Alireza Razavi, Ehsan Ghayoor Karimiani, Gholamreza Ghasemi
Instruction to Authors	Abstract:
Online Submission	Immune and inflammatory responses mediated by cytokines, play important roles in the
Subscription	pathophysiology of asthma. These responses are associated with overexpression of Th2 cytokines
Contact Us	such as IL-4 and IL-13. These two cytokines use common receptors for signaling that lead to identical immunological effects and regulation of the Th1/Th2 balance. The aim of this study was to determine whether patients with allergic
RSS Feed	using RT-PCR, we examined the expression of IL-4 and IL-13 genes in twenty asthmatic cases and twenty normal individuals. Total levels of serum IgE and IL-4 were also determined by ELISA method. Expression of IL-13 gene in 70% of patients with allergic asthma was higher than controls (P=0.01). There was no correlation between the expression of IL-13 gene and total level of serum IgE (P=0.07). Expression of IL-4 gene was detected in 30% of the patients and none of the normal individuals as determined by RT- PCR (P=0.01). Mean of serum IgE levels in patients and controls were 84.9 IU/ml and 62.2 IU/ml, respectively. Level of serum IgE was more than 100 IU/ml in 30% of patients (P=0.03). Mean of serum IL-4 levels in patients and controls were 15.73 pg/ml and 13.07 pg/ml, respectively. There was a relation between levels of serum IgE and IL-4 in 73% c cases. The results showed that there was a correlation between the expression of IL-4 gene and the level of serum II 4. Levels of serum IgE and IL-4 were considerably higher in asthmatics than nonasthmatic controls.
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	Genes , IL-4 , IL-13
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