

عنوان مقاله:

Association between HLA-DQB1 alleles and HAM/TSP patients in Khorasan Province

محل انتشار:

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خلاصه مقاله:

Objective(s): HTLV-I is the first human retrovirus with limited endemic regions in the world. The epidemiological studies have shown that the genetic background and immune response to the virus have a significant role in HTLV-I-associated diseases. Among the genes are involved in HTLV-I infection, the role of human leukocytes antigen (HLA) have been studied in different population. In the present study we examined the association between HLA-DQB1 alleles and HTLV-I infection in HAM/TSP patients, HTLV-I carriers and healthy controls in north east of Iran, Mashhad. Materials and Methods: The blood samples of 16 patients with HAM/TSP, 20 HTLV-I carriers, and 30 healthy individuals were taken and DNA was extracted by salting out method. HLA-DQB1 typing was performed using PCR-SSP method and the frequency of HLA-DQB1 alleles were compared by Fischer Exact Test. Results: There was a significant difference between HAM/TSP patients and healthy controls in the frequency of HLA-DQB1*07 ($P=0.004$, $RR=7$). Furthermore, we found that possession of HLA-DQB1*02 or HLA-DQB1*05 increased the risk of disease 1.5 times. Conclusion: The data presented here suggest that both HLA-DQB1*07 and HLA-DQB1*06 are associated with disease development.

کلمات کلیدی:

HLA, HLA-DQB1, HAM/TSP, HTLV-I, PCR-SSP

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