

عنوان مقاله:

Distribution Analysis of HLA-DQA1*0102, -DQB1*0602, -DRB5*01, -A*0301 haplotypes in normal population of Khuzestan Province

محل انتشار:

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تعداد صفحات اصل مقاله: 1

نویسندگان:

Atousa Hafizi - Department of Genetics, Faculty of Sciences, Shahid Chamran University of Ahvaz, Ahvaz, Iran

Saeid Reza Khatami - Department of Genetics, Faculty of Sciences, Shahid Chamran University of Ahvaz, Ahvaz, Iran

Hamid Galehdari - Department of Genetics, Faculty of Sciences, Shahid Chamran University of Ahvaz, Ahvaz, Iran

Nooshin Delfan - Department of Genetics, Faculty of Sciences, Shahid Chamran University of Ahvaz, Ahvaz, Iran

خلاصه مقاله:

Introduction: The human leukocyte antigen (HLA) system or complex is a gene complex encoding the major histocompatibility complex (MHC) proteins in humans. HLA are proteins or markers found on most cells in human body. Many studies show that MHC gene variants are associated with some diseases. This survey on Khuzestan population included the frequency of HLA haplotypes. HLA typing is used to match patients and donors for bone marrow or cord blood transplants; thus, reporting the association of HLA-DQA1*0102, -DQB1*0602, -DRB5*01 and -A*0301 haplotypes in normal population according to gender, were the goal of the study. **Methods:** This study included 242 healthy individuals without any disease. HLA-DQA1*0102, DQB1*0602, DRB5*01 and A*0301 alleles were genotyped, using the polymerase chain reaction amplification with sequence specific primers (PCR-SSP) method. The relationship of HLA alleles with gender examined. SPSS software was used for the statistical analyses. **Result:** There was no association between DQB1*0602+-A*301- ($p = 0.856$, $OR = 0.875$ [95% CI = 0.206-3.717]) as a multiallelic haplotype and any of the gender. However, DQA1*0102+-DRB5*01- (54.22% vs. 75%, $p = 0.031$, $OR = 0.395$ [95% CI = 0.166-0.938]) showed meaningful association with females compare with males. **Conclusion:** The study on resident in southwest of Iran gives some information about HLA haplotypes that have high frequency in both genders of this population. The data regard to HLA frequency of DQA1*0102+-DRB5*01-haplotype revealed that the .haplotype has high frequency in males

کلمات کلیدی:

HLA-DQA1*0102, HLA-DQB1*0602, HLA-DRB5*01, HLA-A*0301, Haplotype, PCR-SSP, Iran

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