

عنوان مقاله:

Human leukocyte antigen (HLA)-Cw0303, HLA-Cw04, and HLA-Cw07 polymorphisms are associated with susceptibility of rheumatoid arthritis in Chinese Han patients from Southern China

محل انتشار:

مجله علوم پایه پزشکی ایران، دوره 22، شماره 6 (سال: 1398)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Chuankun Yang - *Department of Immunology Laboratory, Zhongda Hospital, School of medicine, Southeast University, Nanjing, Jiangsu, 210009, China*

Chunling Wang - *Department of Immunology Laboratory, Zhongda Hospital, School of medicine, Southeast University, Nanjing, Jiangsu, 210009, China*

Yan Shi - *Department of Immunology Laboratory, Zhongda Hospital, School of medicine, Southeast University, Nanjing, Jiangsu, 210009, China*

Li Li - *Department of Immunology Laboratory, Zhongda Hospital, School of medicine, Southeast University, Nanjing, Jiangsu, 210009, China*

خلاصه مقاله:

Objective(s): This study aimed to investigate the association between human leukocyte antigen Cw (HLA-Cw) polymorphisms and rheumatoid arthritis (RA) in Chinese Han patients in the Jiangsu area (Southern China). **Materials and Methods:** Polymerase chain reaction-sequence specific primers were used to detect HLA-Cw01–08 of 201 RA patients and 211 healthy individuals from Zhongda Hospital (China). The allele frequency distribution of HLA-Cw and genotypic differences between the two groups were analyzed. **Results:** The frequency of HLA-Cw0303 in patients with RA was significantly higher than that in controls, while the frequency of HLA-Cw04 was lower than that in controls ($P < 0.05$). The gene frequency of HLA-Cw07 in anti-cyclic citrullinated peptide (anti-CCP)-negative patients was higher than that in controls ($P = 0.044$). The frequency of HLA-Cw04 was decreased in the short duration subgroup and increased in the long duration subgroup ($P < 0.05$). Compared to controls, the frequency of HLA-Cw0303 in patients with RA and morning stiffness was increased ($P = 0.004$), while the frequency of HLA-Cw04 was decreased ($P = 0.005$). **Conclusion:** These results suggest that HLA-Cw0303 is a susceptibility gene for RA in Chinese Han patients in the Jiangsu area of southern China. The HLA-Cw04 gene may be a protective factor against RA, while HLA-Cw07 might play a protective role in the production of anti-CCP in the long-term course in patients with RA.

کلمات کلیدی:

Anti-citrullinated protein antibodies, HLA antigens, Gene frequency, Polymorphism, Single nucleotide, Arthritis rheumatoid

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/942539>



