HLA-B27 in Turkish patients with rheumatoid arthritis

Sir, Isomaki et al initially reported an increased prevalence of HLA-B27 in rheumatoid arthritis (RA) in Finland.1 Later, two studies from Turkey pointed out that this was also true for Turkish patients, but with a lower prevalence of B27 both among the patients and the healthy population.2,3

In the study from our laboratory, of 50 consecutive, seropositive (by latex agglutination) patients with RA, the prevalence of HLA-B27 was 7/50 (14%), whereas the prevalence of the same allele was 8/268 (3%) among healthy controls (\( \chi^2 = 9.06, p = 0.01 \)). The prevalence of the only other allele investigated in this study, HLA-B5, was 30% among the patients and 33% among controls.

Recently we had the opportunity to reassess our findings. Thirty two Turkish patients with definite or classical RA4 were HLA typed in Leiden, Holland as part of a study with Dr J D Perry of London, to compare the severity of disease in English and Turkish patients.

The prevalence of HLA-B27 was 6/32 (19%) among patients and 3/50 (6%) among controls, confirming our earlier observation. This approached the conventional significance level if it is accepted that the corrected p value is not used if a significant association has previously been shown (RR = 3.72, \( \chi^2 = 3.06, p = 0.076 \)). The prevalence of DR4 was 14/32 (44%) among patients, whereas it was 11/50 (22%) among controls (RR = 2.69, \( \chi^2 = 4.31, p = 0.035 \)).

The Ural-Altaic hypothesis5 claims that there are linguistic ties between the Turks and the Finns. The association of RA with HLA-B27 may be another link supporting this hypothesis.

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