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Genetic Analysis of Kallikrein-Kinin System in the Korean Hypertensives

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The kallikrein-kinin system affects the regulation of blood pressure, and genes encoding for the components of this system have been considered as good candidates for hypertension. We performed the case-control studies using genetic markers in Korean normotensives and hypertensivess, respectively. By association study, there was the marginal association with hypertension in AA genotype distribution of A1789G polymorphism in the hKLK1 gene (P = 0.0754). Thus, it could be excluded the possibility that this genetic polymorphism of hKLK1 gene is weakly contribute to the susceptibility to hypertension in koreans. We also detected that the significant linkage disequilibrium exists among three polymorphic sites in the hKLK1 gene studied, suggesting that three genetic polymorphisms in the hKLK1 gene are useful as genetic markers in clinical association study.

Keyword : Hypertension, Kallikrein-Kinin System and Korean Population