

[P-13]**Codon 311 Polymorphism of Paraoxonase-2 Gene in Koreans**

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Hypertension is a complex multifactorial and polygenic disorder that is thought to result from an interaction between an individual's genetic background and various environmental factors. We estimated the relationship between codon311 polymorphism of the PON2 gene and hypertension in Korean population. PCR-RFLP analysis was performed to investigate the codon311 polymorphism of PON2 gene in Korean population. Observed genotype distribution in normotensives and hypertensives was in Hardy-Weinberg equilibrium. By association study, there was the statistically significant differences in genotype distribution of codon311 polymorphism in the PON2 gene between normotensives and hypertensives, respectively ($P < 0.05$). Thus, it is likely that this polymorphism is useful as a genetic marker to explain the pathogenesis of hypertension in Korean population.

Keyword : Hypertension, Korean Population and PON2 Gene