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**STUDY ON CORRELATION OF P2Y12 GENE  
POLYMORPHISMS IN RS9848789 AND RS2046934  
SITES WITH CORONARY HEART DISEASE**

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**Objectives** To investigate correlation of P2Y12 gene polymorphisms (rs9848789 and rs2046934) with coronary heart disease.

**Methods** 90 health control individuals and 364 patients with coronary artery disease who were diagnosed by coronary angiography or coronary artery CT angiography were enrolled in the study. The single nucleotide polymorphisms (rs9848789 and rs2046934) of P2Y12 gene were detected by MALDI-TOF mass spectrometry. Compare the genotypes and allele frequencies in the two groups.

**Results**

1. Genotypes and frequencies of P2Y12 gene polymorphisms (rs9848789) in control group and coronary heart disease group both were CC genotype.
2. Genotypes and frequencies of P2Y12 gene polymorphisms (rs2046934) in control group and coronary heart disease group were as below: CC genotype 4.4% vs 2.5%; CT genotype 21.1% vs 26.1%; TT genotype 74.4% vs 71.4%. There was no significant difference between control group and coronary heart disease group ( $p=0.40$ ).

**Conclusions** Single Nucleotide Polymorphisms of P2Y12 gene polymorphisms in rs9848789 and rs2046934 are not associated with coronary heart disease.