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**Association of adiponectin gene(adipoq) promoter polymorphism(Rs266729) with coronary artery disease**

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One of the most common cardiovascular disease is Coronary artery disease (CAD). Though various studies have been done in order to investigate the role of ADIPOQ gene in the risk of CAD, the results are not in accord with. So, there is a need of genotype analysis of ADIPOQ gene (rs266729) for further evaluation of association between ADIPOQ gene polymorphism and CAD risk. The aim of the present study was to evaluate the impact of (rs266729) SNP in the promoter region of the ADIPOQ gene on the occurrence of CAD.

**Materials and Methods:** In this case control study, the study group included 50 patients with angiographically proven CAD as case group and 50 apparently healthy age and sex matched adults as control group, for the genotype (C/G) analysis of ADIPOQ gene(rs266729) by PCR-RFLP using Hha I enzyme. Case Group: CC 20(40%), CG 16(32%) and GG 14(28%); Control Group: CC 29(58%), CG 16(32%) and GG 5(10%). The frequency of allele C in case group was 56% and 74% in control group. The frequency of allele G in case group was 44% and 26% in control group ( $p=0.0001$ ). There was statistical significance between the two groups ( $p=0.0001$ ).

**Conclusion:** Adiponectin gene promoter polymorphism (rs266729) is involved in the pathogenesis of coronary artery disease

**Keywords:** Adiponectin, Coronary artery disease.

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