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Genetic Study of Nuclear Factor Kappa B1 Gene (NFKB1) Polymorphism in Acute Coronary Syndrome

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ABSTRACT Acute coronary syndrome (ACS) is a leading cause of death and illness worldwide. Previous studies explored connection between NFKB1 gene polymorphism and its role in development of atherosclerosis. The aim of the present study was to know the correlation of NFKB1 gene polymorphism with acute coronary syndrome (ACS). Comprehensive clinical data, biochemical profiles, electrocardiograms, and blood samples were collected from 92 patients with ACS and NFKB1 gene polymorphism was analysed using polymerase chain reaction. In this study, male were more than female patients and in the age group of 61-70 years. Chest pain and dyspnea were common symptoms and diabetes and high blood pressure were risk factors. Non-ST-segment elevation myocardial infarction was the frequent ECG finding. No mutations were detected in NFKB1 gene exons 2 and 10, indicating this particular genetic variant was not linked to ACS in the studied population.