**Association of ACE Gene I/D polymorphism with migraine**

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**ABSTRACT**

**INTRODUCTION:** Migraine is a complex, recurrent headache disorder that is one of the most common complaints in neurology practice. The role of various genes in its pathogenesis is being studied. We did this study to see whether an association exists between ACE gene I/D polymorphism and migraine in our region.

**MATERIAL AND METHODS:** The study included 100 patients diagnosed with migraine and 121 healthy controls. The study subject were age and gender matched. The analyze was based on Polymerase Chain Reaction (PCR) and included following steps: DNA extraction from blood, Polymerase chain reaction (PCR) and Restriction Fragment Length Polymorphism.

**RESULTS:** Out of 100 cases, 69 were females and 31 were males. 57 were having migraine without aura and 43 had migraine with aura. 45 of the cases had II polymorphism, 40 had ID polymorphism and 15 had DD polymorphism in ACE gene.

**CONCLUSION:** We were not able to find a statistically significant association between ACE gene I/D polymorphism with migraine. The reason for difference in results between our study and other studies could be because of different ethnicity in study populations. So a continuous research is needed in this regard in order to find the genes and different polymorphism that increase the susceptibility of Kashmiri population to migraine.