IMPACT: International Journal of Research in Applied, Natural and Social Sciences (IMPACT: IJRANSS)
ISSN(E): 2321-8851; ISSN(P): 2347-4580
Vol. 4, Issue 2, Feb 2016, 85-92

INVESTIGATION OF ENOS GENE INTRON 4 A/B VNTR POLYMORPHISMS IN PATIENTS WITH ESSENTIAL HYPERTENSION

AZIZ ABBAS T[1] AHMED A. NASIR AL-AMERY[2] & HIBA ABDUL-ADHEEM[3]

[1]College of Medicine, Department of Clinical Biochemistry, University of Thiqar, Iraq

[2,3]College of Medicine, Cancer Research Unit, University of Thiqar, Iraq

ABSTRACT

Hypertension is a multi-factor disease involving interaction of both environment and genetic components. It is a major risk factor for Coronary Artery Disease (CAD), which is associated with high mortality rate. The aim of this case control study was to investigate the possible role of genetic variants of the endothelial Nitric Oxide Synthase (eNOS) gene (VNTR) in the pathogenesis of essential hypertension. The study included 103subjects (52 hypertensive patients and 51 normal control)**.** Randomly selected was conducted to assess the association of SNP eNOS intron 4a/b VNTR polymorphism gene with essential hypertension in Iraqi population. Blood samples from subjects and controls were analyzed to investigate the eNOS genotypes No significant differences were found in the frequency of eNOS genotypes between hypertensive patients and controls ($p > 0.05$).

KEYWORDS: Polymorphisms, Investigation