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## The study of Correlation between M235T Polymorphism in ATG Gene with Iranian Idiopathic Repeated Pregnancy Loss

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Abortion, the commonest complication of pregnancy is the spontaneous loss of a pregnancy before the fetus has reached viability. But 50% of them have no specific reason and are considered idiopathic recurrent pregnancy loss. Renin-Angiotensin system is correlated with angiogenesis. AGT is an important protein in Renin-Angiotensin system pathway and mutation in this protein can disrupt this pathway, this study investigates known mutation of the *AGT* gene M235T in Iranian women with idiopathic repeated pregnancy loss.

In this study, 96 Iranian pedigrees with recurrent miscarriage couples were studied. Frequency polymorphism of M235T in *AGT* gene in 70 idiopathic RPL women was studied in comparison to a sample of 70 healthy women by Tetra-primer ARMS-PCR.

Of the 70 female patients, 42 female heterozygous genotype TC (61/8 %), 26 women with the genotype TT (38/2 %) and 60 patients without mutation of the control group (83/6 %) and 10 heterozygous (16/4 %) were observed (P=0.001). None of the patients had genotype cc.

A statistically significant was observed between M235T in AGT gene and idiopathic recurrent pregnancy loss. So this polymorphism can serve as an appropriate marker for investigation of other population and different ethnics.

Keywords: Idiopathic Repeated Pregnancy Loss, Renin-Angiotensin System, AGT gene, M235T polymorphism.