## خلاصه مقالات سخنراني ويوستر





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نهران، مر کر همایش های بین المللی دانشگاه شهید بهشت<sub>ه</sub>

## Renin-Angiotensin A1166C Polymorphism and the Risk of Recurrent Spontaneous Abortion in Iranian

## **Patients**

<u>Mozhgan Sheikholeslami</u><sup>1</sup>, Mohammad Mehdi Heidari<sup>1</sup>, Mehri Khatami<sup>1</sup>, Seyed Mohammad Seyed Hasani<sup>2</sup>

<sup>1</sup> Department of Biology, Faculty of Science, Yazd University, Yazd, Iran.

<sup>2</sup>Dr Seyed Hasani Medical Genentics Center, Yazd, Iran.

**Background:**Recurrent spontaneous abortion is a multifactorial disease. The occurrence of recurrent miscarriage has been estimated 1-3% of couples. At least 50 percent of abortions are frequently unknown origin. The renin-angiotensin system is a hormonal system. It is possible that one of the genes in reninangiotensin system effects on this disease. AGTR1 receptor is dominant receptor in this system, so has a central role in function of renin-angiotensin system. The study sought to investigate whether exists any relationship between A1166C mutation in AGTR1 gene with Iranian patients of recurrent spontaneous abortion.

**Methods:**In this study, 110 females with at least 3 abortions experiences were compared to 105 females with no abortion histories by T-ARMS-PCR.

**Results:** Among the patients, the frequency of genotypes was AA (% 70), AC (% 28) and CC (% 1/8). The genotype frequency of control cases were 89 AA (% 84/7), 16 AC (% 15/2) (*P*=0.008)and CC (% 0).

**Conclusion and discussion:**Our results show significant relationship between polymorphism of *AGTR1* A1166C with idiopathic recurrent spontaneous abortion in Iranian women.

**Keyword:** Recurrent spontaneous abortion, Renin-angiotensin system, *AGTR1 gene*, A1166C polymorphism