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Polymorphism FSHR (-29G/A) as a genetic agent together with ESRI (XbaI G/A) in women with poor response to controlled ovarian hyper-stimulation

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Statement of the Problem: One of the major problems in IVF is the poor response of the ovary to gonadotropins. ESRI and FSHR are two effective genes on controlled ovarian hyperstimulation (COH). The purpose of this study is to evaluate the correlation of alleles and genotypes of polymorphism (-29G/A) located in the FSH receptor gene and polymorphism (XbaI G/A) located in Estrogen receptor genes with the ovary's response would help to anticipate the results of ovulation in IVF cycles.

Methodology & Theoretical Orientation: In the present study, 200 blood samples were taken from infertile women aged 20 to 39 who were under IVF therapy. After DNA extraction from the samples, real-time PCR was performed using a specific probe-primer.

Findings: Statistical analysis revealed that the frequency of alleles and genotypes of polymorphisms (-29G/A) and (XbaI A/G) in women with normal to poor response did not have significant correlation.

Conclusion & Significance: It is recommended that polymorphism rs1394205 in the FSHR gene and rs9340799 in the ESRI gene should be investigated in other cities and populations using more samples.

Biography

Sayyed Mohammad Hossein Ghaderian is the Associate Professor of Medical Genetics in Medical Genetics Department at School of Medicine in Shahid Beheshti University of Medical Sciences, Vice Chancellor for Research in Urogenital Stem Cell Research Center, Member of Head Committee of Human Genetics in Genetics Society, Member of Research Committee in Research Center of Nanotechnology and Tissue Engineering of Shahid Beheshti University of Medical Sciences, Tehran, Iran, Member of Research Committee in Molecular and cell Biology of Research Center of Shahid Beheshti University of Medical Sciences in Iran. He has received his PhD in Human Genetics from University of Bradford in UK.

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