

عنوان مقاله:

Association between G20210A prothrombin mutation and recurrent pregnancy loss in Iranian population of Yazd province

محل انتشار:

هشتمین کنگره بین المللی و جشنواره دانشجویی طب تولید مثل و سومین کنگره بین المللی ژنتیک تولید مثل (سال: 1398)

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خلاصه مقاله:

Background: Recurrent pregnancy loss (RPL) has been inconsistently defined as 3 or more consecutive pregnancy losses prior to 20 wk from the last menstrual period. It affects approximately 1-2% of women. In the literature, there are many reports on the role of G20210A prothrombin mutation, as a thrombophilic disorder, in RPL. Objective: The purpose of this study was to determine the association between G20210A mutation and RPL in 370 women with idiopathic RPL and 220 women without history of abortion and at least one term pregnancy as the control group. Materials and Methods: Genomic DNA was extracted from peripheral blood using QIAamp DNA Blood Mini Kit (Qiagen). Then, genotyping of G20210A mutation was carried out by amplification refractory mutation system-polymerase chain reaction (ARMS-PCR) technique. Results: The G20210A mutation (heterozygote and mutant homozygote) was detected 10.9% in patients that is considerably higher in comparison with control group ($p < 0.05$). Conclusion: This study indicated the possible association of G20210A mutation with RPL. Therefore, it has been concluded that G20210A mutation screening would be useful to decrease the probability of RPL.

کلمات کلیدی:

Prothrombin, G20210A, ARMS-PCR, idiopathic RPL

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