### عنوان مقاله:

Association of selected polymorphisms in GPXF, COMT, pre-miR-1\Delta, pre-miR-1\Delta, and pre-miR-\TTD genes in Iranian women with idiopathic recurrent pregnancy loss: A case-control study

### محل انتشار:

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#### خلاصه مقاله:

Abstract Background: Recurrent pregnancy loss (RPL) is a major concern among women worldwide. However, the exact mechanisms underlying miscarriage are not well understood. Recent evidence suggests that single nucleotide polymorphisms in various genes, especially miRNAs, may be responsible for RPL. Objective: We surveyed the association between polymorphisms in pre-miR-ነላ۵a, pre-miR-ነ۰a, pre-miR-۳۲۳b, GPXf, and GPXf in Iranian women with idiopathic RPL. Materials and Methods: DNA was extracted from blood samples of 115 women with idiopathic RPL and A9 healthy women as controls who had previously had at least two successful pregnancies. Polymerase chain reaction was used for the amplification of the genes. Genotype screening along with SNaPshot were performed to detect different polymorphisms. Finally, the polymorphisms and frequency of each genotype were compared between the two groups. Results: The frequencies of polymorphisms in pre-miR-۱۲Δa (p < o.ool) and pre-miR-10a (p = o.of) were calculated among the case and control groups, which showed a statistical difference (p < ... ω), indicating an association between these polymorphisms and the symptoms of RPL. The frequencies of polymorphisms of genotypes in GPXF, COMT and pre-miR-٣٢٣b did not demonstrate any difference between the two groups. Also, the amount of alleles in pre-miR-1γΔa and pre-miR-1₀a were significantly different (p < o.o∘) and p = o.oγ, respectively) and the dominant inheritance model was proposed. Conclusion: In pre-miR-1Yaa and pre-miR-1oa can be associated with RPL in women. The SNaPshot technique is a valuable tool to evaluate possible associations between polymorphisms .and health conditions

## كلمات كليدى:

,SNaPshot, Single-nucleotide polymorphisms, Recurrent pregnancy loss, Genotypes, SNaPshot پلی مورفیسم تکنوکلئوتیدی, سقط مکرر, ژنوتیپ ها.

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