

## عنوان مقاله:

Investigation of frequency of VKORC1 gene polymorphisms in Warfarin treated patients in Rafsanjan

## محل انتشار:

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## خلاصه مقاله:

**Backgrounds:** Warfarin is one of the most important oral anticoagulants that are prescribed in the process of preventing blood coagulation based on the needs of individuals. Age, sex, diet, used medications and most importantly genetic factors are important factors in determining the dose of Warfarin. Some VKORC1 gene polymorphisms, which express the C1 subunit of VKOR vitamin K epoxide reductase, are responsible for Warfarin resistance and sensitivity. The present study investigated the frequency of VKORC1 gene polymorphisms in patients treated with Warfarin in Rafsanjan. **Materials and Methods:** In this cross-sectional study, -1369G>A gene polymorphism was determined by PCR-RFLP method on 113 patients taking Warfarin. Statistical analyzes were performed with SPSS software version 25 to investigate the correlation between patients' demographic data and Warfarin dose. **Results:** After comparing the mean dose of Warfarin, there was no significant difference statistically in the dose of warfarin with age and sex in relation to this polymorphism, but AA and GG genotype were required the lowest and the highest dose of warfarin in patients, respectively. **Conclusion:** It seems that in addition to the mentioned polymorphism, the relationship between Warfarin consumption and alleles of other genes as well as environmental conditions may depend on their effect on Warfarin consumption. It needs to perform more studies.

## کلمات کلیدی:

Anticoagulation, Warfarin, Genetic polymorphism, VKORC1

## لینک ثابت مقاله در پایگاه سیویلیکا:

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