

عنوان مقاله:

Relevance of genetic polymorphisms of the human cytochrome PFOo WAF in rivaroxaban-treated patients

محل انتشار:

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خلاصه مقاله:

Rivaroxaban is an anticoagulant drug that prevents forming of blood clots. In addition, it can be administered to prevent and treat thrombotic diseases such as atrial fibrillation, cardiac arrhythmia, heart valve disease, orthopedic surgery, and thrombophilia to reduce the risk of thrombosis. Various factors such as age, gender, diet, medications, and genetic factors effectively determine the dose of rivaroxaban. Genetic variability in drug-metabolizing enzymes, including the cytochrome PFΔ₀ (CYPFΔ₀) enzymes and especially CYP۳AF, has been associated with rivaroxaban response. The current study aimed to identify the frequency of CYP۳AF common polymorphisms, as well as their association with rivaroxaban response in ۱₀₀ patients of Arab descent (FA.۶% female). CYP۳AF gene polymorphisms were examined by the PCR-RFLP method, and the findings were analyzed by SPSS 1۶ software and t-test. The frequency of CYP۳AF*1B/*1B, CYP۳AF*1B/*1A, CYP۳AF*1B/*1C, and CYP۳AF*1A/*1C was ۶۷.۳۵%, 1₀.۶F%, 1۹.1Y% and Y.Aq%, respectively. According to our results, CYP۳AF *1B/*1B genotype was the most common, and patients with CYP۳AF*1B/*1B/*1B alleles needed a higher daily dose of rivaroxaban than *1B/*1A, *1B/*1C, and *1A/*1C carriers (9.ΔY ± 1.ΔF mg/day, P=•.•1Δ). Therefore, according to the results, CYP۳AF gene polymorphism has an important effect on the .dose of rivaroxaban required to maintain the International Normalized Ratio (INR) in the range of Y-m

کلمات کلیدی:

Blood Clots, Cardiovascular disease, CYPrAF gene, Genetic Characteristics, Multiple Alleles

لینک ثابت مقاله در پایگاه سیویلیکا:



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