عنوان مقاله:

The prevalence of SLCO1B1 in different ethnics of Iranian population and its relation with dtstin induced myopathy

محل انتشار:

اولین کنگره پزشکی شخصی (سال: 1395)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background and purpose:The relation between SLCO1B1 gene polymorphism and statin induced myopathy has been reported.SLCO1B1 gene encodes an organic anion transporter polypeptide transmembrane which facilitate the uptake of statin in hepatocyte membrane.rs4149056 polymorphism in the mentioned gene,increases the risk of statin induced myopathy.the aim of this study was to identify the prevalence of SLCO1B1 in different ethnics of Iranian population.Material and methods:Frequencies of rs4149056 polymorphism in SLCO1B1 gene in 300 healthy Iranian subjects in five different ethnis groups by using Tetra ARMS-PCR. Also by using Real time PCR and sequencing as control..Results:There is no significant difference between Iranian ethnic groups ,(p> 0.05) approximately 5/6 % of Iranian showed mutant homozygote allelic type (CC), 14/48% heterozygote (TC) and 74/29% wild type (TT).but in comparision with Brazil,france,China,Japan,Russian/Sakha,Czech,Africa,the homozygote C-allele type,which causes more increased risk of statin-induced myopathy ,was found significantly more often in Iranian population.Conclusion:Findings showed that there is no significant difference between Iranian ethnic groups which.Indicates that statin-therapy can be almost similar for every groups in Iranian population.Also the presence of SLCO1B1 C-allele in Iran forces us to be more careful in statin drug prescription,according to higher risk of statin-induced myopathy. These data would be useful in programming and classificating individual, for prescribing appropriate statin.

کلمات کلیدی:

rs4149056,SLCO1B1 polymorphism , Statin induced myopathy