عنوان مقاله:

The Relationship between Hepatitis C Genotypes and Viral Load: a study on hepatitis C patients in Kerman, Iran using Real-time PCR

نویسندگان:

Farideh Doostan - *Assistant Professor, Physiology Research Center, Institute of Basic and Clinical Physiology Sciences & Department of Nutrition, Kerman University of Medical Sciences, Kerman, Iran*

Marziye Jahanshahi Jahanshahi - *MSc. Student, Department of Microbiology, Islamic Azad University, Kerman, Iran*

Farida Hassanzadeh - *BSc. in Molecular and Cellular Biology-Genetic, Dr. Bazrafshani Medical Genetic Lab, Kerman, Iran*

Mohammadreza Bazrafshani - *Assistant Professor, Department of Medical Genetics, Kerman University of Medical Sciences, Kerman, Iran*

خلاصه مقاله:

Abstract Background: Distribution of hepatitis C virus genotypes varies geographically and can be associated with clinical aspects. The virus has six major genotypes and eleven sub-genotypes. According to the recent studies, in hepatitis C patients, treatment duration and ribavirin dosage should be determined based on the type of virus genotype. Because of contradictory results reported in different countries and races, the present study aimed to determine the genotype of hepatitis C and its relationship with viral load in HCV patients in Kerman, Iran. Methods: The study included ۱۰۶ patients with hepatitis C referred to Dr. Bazrafshani Medical Genetic Lab. in Kerman. Patients' blood plasma was collected and used for virus genotyping and viral load determination by Real-Time PCR technique. Results: From ۱۰۶ studied patients, ۸۲ ones were male (۷۷.۴%) and ۲۴ ones were female (۲۲.۶%). Most frequent genotypes were respectively genotype ۳ (۵۵.۷%) and genotype ۱(۴۴.۳%). Viral load in genotype۱ was greater than that in genotype ۳ (P=۰.۰۱۱). Conclusions: In this study, the predominant genotype was genotype ۳. Therefore, treatment strategies should go towards type ۳ virus. On the other hand, copy number of genotype ۱virus was higher than that of type ۳ that should be considered very important in determining the treatment duration in HCV patients.

کلمات کلیدی:
Hepatitis C Virus, Genotype, Viral load, Real-Time PCR

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