IDENTIFICATION OF ACANTHAMOEBA GENOTYPE IN A KERATITIS PATIENT

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Abstract

Background/aims Acanthamoeba is an opportunity free-living parasites that causes amoebae keratitis in human papulation . The incidence of the disease has been increased in contact lens wearer in recent years. More than 15 genotype for amoeba keratitis have been reported. This study is conducted to show genotype of the Acanthamoeba in keratitis infection. Methods A 22 years old women who had used contact lens for 6 month. She had keratitis signs and referred to ophthalmologic department of hospital. Microscopic and culture of scraping cornea sample revealed Acanthamoeba parasite. Results The results of PCR and sequencing showed that Acanthomoeba belonged to T4 genotype .

Conclusion Special care should be considered by contact lens wearer and must to use standard contact lens and solution.

Keywords: Acanthamoeba, contact lens, Keratitis, T4 genotype