

عنوان مقاله:

Studying VSX\ Gene Mutations in Patients with Keratoconus of Chaharmahal and Bakhtiari Province, Iran

محل انتشار:

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خلاصه مقاله:

**Background & Aims:** Keratoconus (KC) is an eye disorder in which the cornea is swollen, thinned and deformed. Despite extensive studies, the pathophysiological processes and genetic etiology of KC is unknown. The disease incidence is approximately 1 in 2000 and is the most common cause of corneal transplantation in the US. Many genes are involved in the disease, but evidence suggests a major role for VSX\ in the etiology of KC. This study aimed to determine the frequency of mutations in exons 2, 4 of the VSX\ gene in Chaharmahal and Bakhtiari province, Iran. **Methods:** In this experimental study, mutations in two exons including exons 2 and 4 of VSX\ were investigated in 50 patients with KC. DNA was extracted using a standard phenol-chloroform method. PCRSSCP/HA was performed, followed by DNA sequencing to confirm the identified motility shift. **Results:** H24R mutation was identified in exon 4 of only one patient. **Conclusion:** Our investigation showed that the KC-related VSX\ mutations are found in very small samples in the study subjects from Iran. Further investigations on other genes are needed to clarify their roles in KC pathogenesis

کلمات کلیدی:

Keratoconus, Gene VSX\, Mutation

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