

عنوان مقاله:

First Record of HAdV-DY. Among Keratoconjunctivitis Patients in Iraq

محل انتشار:

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نویسندگان:

Masar Riyadh Rashid Al-Mousawi - Department of Medical Microbiology, Collage of medicine, University of Kerbala, .Iraq

.May Mohammed Ali - Department of Medical Microbiology, Collage of medicine, University of Kerbala, Iraq

.Noor Salman Kadhim Al-Khafaji - Department of Biology, college of science, University of Babylon, Iraq

.Hussein Oleiwi Muttaleb Al-Dahmoshi - Department of Biology, college of science, University of Babylon, Iraq

خلاصه مقاله:

Background: Human Adenovirus species D (HAdV-D) was common human viral pathogen especially in eye infection, consists of several types of which HAdV-DA, -DI9 and -DWY were common in eye infection. This study includes detection of HAdV-D types implicated in conjunctivitis based on LY (Penton protein) gene similarity. Methods: Conjunctival swabs were collected from Keratoconjunctivitis patients as eye infection related to adenovirus. Viral nucleic acids were extracted and specific primer pairs for HAdV-D LY gene (encoding for penton base protein) was used to amplify the target gene and only positive samples were sent to sequencing. Results: The results revealed that only 9 samples give positive results for LY gene amplification and then sent for sequencing for LY (penton protein) gene-based typing. The results show that F local isolates (S1, SY, SF, SF) were similar to HAdV-DA and Y local isolates (SF, Sa) were similar to HAdVDY. Also the results display that the HAdV-TV, prominent HAdV-D type of human eye infection, may be variant of HAdV-DYo due to that six variation were seen in SFand Sa local isolates nucleotide sequence in relation to HAdV-DWY: T>C at position 1FF9F, A>C at position 1FF11, T>C at position 1FFYY, C>A at position 1994, G>A at position 1969 and T>C at position 1991, leading to only Y amino acid change in resulted penton protein: T (Threonine) instead of K (Lysine) at position YoF and N (Asparagine) instead of D (Aspartic acid) at position YFY. Conclusions: The current study concludes the possibility of implication of HAdV-DYo in eye infections .especially conjunctivitis

کلمات کلیدی:

HAdV-DA, HAdV-DYo, HAdV-DWY, conjunctivitis, Iraq

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