

عنوان مقاله:

Molecular identification of Sheeppox virus (SPV) in Kerman province, Iran

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Majid Ezatkhai - *Department of Research and Technology, Kerman branch, Razi Vaccine and Serum Research Institute, Agricultural Research, Education and Extension Organization (AREEO), Kerman, Iran*

Hamid-reza Varshovi - *Department of Animal Viral Vaccine, Razi Vaccine and Serum Research Institute, Agricultural Research, Education and Extension Organization (AREEO), Karaj, Iran*

Mehrdad Shamsaddini Bafti - *Kerman branch, Razi Vaccine and Serum Research Institute, Agricultural Research, Education and Extension Organization (AREEO), Kerman, Iran*

Maryam Amini - *Kerman branch, Razi Vaccine and Serum Research Institute, Agricultural Research, Education and Extension Organization (AREEO), Kerman, Iran*

Mojtaba Alimolaei - *Department of Research and Technology, Kerman branch, Razi Vaccine and Serum Research Institute, Agricultural Research, Education and Extension Organization (AREEO), Kerman, Iran*

خلاصه مقاله:

Introduction and Objectives: Sheeppox virus (SPV) belongs to Poxviridae family, Chordopoxvirinae sub-family, and capripoxvirus genus. SPV is an endemic disease in Iran and has a very important role in agricultural economy. It is included in the notifiable diseases of Office International des Epizooties (OIE). The purpose of this study was molecular identification of SPV in Kerman province of Iran. **Materials and Methods:** A total of forty-five biopsy samples from skin lesions of sheep suspected to SPV were collected from different districts of Kerman province. A previously developed capripoxvirus specific PCR assay was applied to identify the P32 gene encoding capripoxvirus immunodominant antigen to identify SPV. **Results:** Eleven samples (24.44%) were shown positive results for 390bp fragment of P32 gene. Spatially, the disease was recorded in 8 out of 20 districts. **Conclusions:** Our results revealed that SPV is endemic and dispersed in Kerman province of Iran. Hence, ring vaccination should be undertaken for a period of two to three years, to try to eradicate the SPV. The study also highlights high sensitivity of this PCR in detection of SPV.

کلمات کلیدی:

Sheeppox virus, PCR, P32 gene, Kerman, Iran

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