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Seromonitoring study of foot and mouth disease in the republic of Azerbaijan (2016)

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Foot and mouth disease outbreaks have occurred in Azerbaijan in different years. In neighboring states, such as Iran and Turkey, foot and mouth disease epizooty is reported every year. Continuous spread of the disease in these countries causes constant danger for the country. Twice a year livestock and small cattle is vaccinated against the disease as a preventive measure.

The main of this study aim was to surveillance of current situation; define of immunity status new vaccine and non-structural proteins (NSP) of foot and mouth disease in the border rayon's of country for the year 2016. In addition managing control over animals passing through the border.

In March and April, 2016 livestock and small cattle were immunized with trivalent (A, O, Azia1) vaccine in all rayon's of the country. 21-30 days after vaccination, rayon's collected blood samples and sent them to Republican Veterinary Laboratory. Assays were conducted with NSP and solid faze ELISA.

Total 1692 serum samples were collected across the country as a result of this study. The 2.6% of positivity for NSP. The immune status of antibodies against serotype A -60%, Azia 1-70%, O- 60%.

As a result of seromonitoring, it was defined that the epizootic state against foot and mouth disease was stable. The high percentage of positive results among animals passed through the border indicates the necessity for imposing quarantine on imported animals. Accordingly, the used vaccine have been showed the less effectivity and quality. The positive results obtained show the need to continue the vaccination, however with different vaccine.

Biography

Shalala Zeynalova Karam working as Deputy director in Republican Veterinary Laboratory, Baku. Her international experience includes various programs, contributions and participation in different countries for diverse fields of study. Her research interests reflect in his wide range of publications in various national and international journals.

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