Evaluation of the Seroprevalence of *Akabane* and *Bluetongue* viruses using competitive-ELISA in dairy cattle from industrial herds, Semnan suburb, Iran

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Received: 13.02.2018 Accepted: 11.11.2018

**Abstract**
A cross-sectional survey was carried out to determine the seroprevalence of *Akabane* (AKA) and *Bluetongue* (BT) viruses in dairy herds in Semnan suburbs, Iran. Serum samples were collected from a total of 184 dairy cattle and tested for antibodies against *AKAV* and *BTV* using competitive-ELISA. The prevalence rates of *AKAV* and *BTV* antibodies in examined cattle were 23.3% (0-75% between herds) and 0%, respectively. The prevalence rates of *AKAV* antibodies were significantly associated with milking statues (milking or heifer) and abortion history, being higher in milking animals in comparison to heifers (31.3%) and animals without abortion history than previously aborted cattle’s (34.2%). The study revealed that *AKAV* infection is present in dairy herds of Semnan suburbs and this calls for control strategy to be noticed by veterinary services while *BTV* seems to have less importance in cattle herds of Semnan region.

**Key words**: *Akabane*, *Bluetongue*, Seroprevalence, ELISA, Dairy cattle

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DOI: 10.22055/ivj.2018.101312.1971


