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Do the goats play a role in the spread of IBR infection under field conditions?

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Bovine Herpesvirus 1 (BoHV1) or Infectious Bovine Rhinotracheitis (IBR) is one of the most important viral infections causing economic losses in cattle breeding. Sheep and goats are less sensitive to the infection but there is no clear information on their role in the continuity in the virus circulation in the field. The purpose of this study was to obtain information on cross transmission between cattle, sheep and goats under field conditions. For this aim, blood serum samples were collected from these three species having been breeding together at least for 1 year. Samples were obtained from 226 cattle, 1,053 sheep and 277 goats from 17 small-medium scale family type enterprises in Afyonkarahisar province, West Anatolia. BHV1 specific antibody presence and titers were determined using Serum Neutralisation test. Out of 17 farms, BHV1 seropositivity in cattle was detected in 13, between 5.8 and 88.8% proportions, and total of 73 (32.3%) was positive. Out of 1,053 sheep, only one sheep detected as positive (0.09%). Besides sheep and cattle, goat samples were collected from 8 enterprises, and positivity was determined in 4 between 17% and 38.9%. In total, out of 277, 58 (20.9%) goats were found to be positive for BHV1. Maximum antibody titer in cattle was 1/8 in cattle while 1/2 in goats. Data of cattle and goats were compared using Cohen's kappa coefficient and substantial agreement and 69.6% value was determined among two species. It was concluded that, goats could have a significant role in the transmission under field conditions, not sheep. Goats should be considered as a factor in the control and eradication of BHV1 in cattle.

Biography

Sibel Gür is working at Afyon Kocatepe University, Turkey. 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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