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Sero-prevalence investigation of Peste des Petits Ruminants (PPR) and associated risk factors in Libya during 2015-2016

Abdusalam Sharef Mahmoud[2], Daria Di Sabatino[1], Maria Luisa Danzetta[1], Francesco Tolari[3], Mario Forzan[3], Maurizio Mazzei[3], Abdunaser Dayhum[2], Federica Monaco and **Zakaria Alkhatal**

[1]L'Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise, Italy
[2]University of Tripoli, Libya
[3]University of Pisa, Italy

Peste des Petits Ruminants (PPR) is considered one of the most important transboundary animal diseases (TADs) with socio-economic impacts on national and international levels. During 2015-2016 a total of 690 serum samples were collected from unvaccinated domestic ruminants of which 555 sheep and 135 goats representing teen provinces distributed in four Libyan branches (Green Mountain, Benghazi, West Mountain and Sabha). The sample were analysed at IZSAM, Teramo, Italy, by using competitive ELISA, IDvet innovative diagnostics (IDvet, 310 rue Louis Pasteur-34790 Grabels, France). The overall sero-prevalence rate (SPR) of PPR antibodies was estimated to be 41% (95% CL: 36% to 46%) among sheep and 39% (95% CL: 28% to 45%) among goat. A chi-square test was used to evaluate the probability of differences observed among SPR of infection. The results showed that the SPR of PPR was significantly (P= 0.015) higher in adult animals 41% (95% CL= 37%-46%) than in the young 24% (95% CL= 17%-32%). The highest SPR 75% (95% CL= 61%-85%) was recorded in Sabha province (Southern Libya) which highlighted statistically difference (P= 0.00001). The preliminary results of the present study could be useful to better focus on specific area of Libya to improve understand and evaluate the risk factors for disease spreading and to plan disease control activities as requested by FAO/OIE (PPR Global Control and Eradication Strategy).

Biography

Abdusalam Sharef Mahmoud has completed BVSc from Faculty of Veterinary Medicine, University of Tripoli and Master in Veterinary and Animal Science (MVSc) from Guru Angad Dev Veterinary and Animal Sciences University (GADVASU) Ludhiana, India. He received the PhD in Veterinary Sciences from University of Pisa, Department of Veterinary Science. He is working at Department of Preventive Medicine, Faculty of Veterinary Medicine, University of Tripoli.

alawiym@yahoo.com

Notes:

Page 10