

Title: SEROEPIDEMIOLOGY OF PESTE DES PETITS RUMINANTS IN SELECTED AREAS OF ETHIOPIA

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The present study was conducted to estimate the overall sero-prevalence of PPRV infection in small ruminants (sheep and goats) in four selected regions and one administrative council in Ethiopia and to estimate the overall, age and species wise seroprevalence. Out of 2439 sera of sheep and goats 1153 (47.27%) of animals were found to be sero-positive for PPR using c-ELISA, with 95% CI of 45.27% – 49.29%. Statistically significant ($\chi 2 = 15.51$, $p < 0.05$) variation was observed in the overall seroprevalence of PPR among the regions, with high prevalence in Amhara (52.8%) followed by Dire Dawa (49%), Tigray (47%), Oromia (46.1%) regions and Southern Nations Nationalities and People's Regional State (40.5%). The overall seroprevalence of PPR among female and male animals had significant variation, being high in female ($p < 0.05$). The sera of the goat showed higher sero-positivity (50.4%) when compare to sheep sera (41.4%) for PPR, similarly the seroprevalence of PPR showed a significant variation among different age group of animals. The overall odds of PPR seropositivity in female animals were statistically high when compared with male animals (OR= 1.42, 95% CI: 1.17-1.72). The results of this study documented serological evidence for widespread distribution and endemic establishment of PPR in small ruminant population of the study areas. The establishment of early warning systems and proper implementation of control measures are needed, including regular surveillance and vaccination, to improve animal production.

Key words: Peste des Petits ruminants; (PPR); c-ELISA; Seroprevalence; sheep and goat, Ethiopia.

Biography:

Dr. Hailemariam was born in Adigrat town, Eastern Zone of Tigray Region, in August 1984. He completed his secondary school education in July 2003. He joined to Hawassa University Faculty of Veterinary Medicine in November 2003 and completed his Doctorate Degree of Veterinary Medicine studies in Veterinary Medicine in July 2009. He has completed his MSC in Veterinary Epidemiology from Jimma University, College of agriculture and School of veterinary Medicine. Currently working in Ministry of Agriculture, Animal health department,

Epidemiology desk, as Senior Veterinary Epidemiologist. He has more than 15 years' work experience in the ministry of Agriculture, Ethiopia.

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