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A comparative study from two regions of México for *Babesia caballi* and *Theileria equi*

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The aim of this study was to determine and compare the seroprevalence of *T. equi* and *B. caballi* infection by cELISA and looking for the presence of ticks associated with the occurrence of the Equine Piroplasmiasis (EP). Horses from two regions: tropical and subtropical of México were selected (Figure 1). One hundred horses from Torreón, Coahuila and seventy five horses from Villa Corzo, Chiapas with some clinical signs such as jaundice, lethargy, partial anorexia, weight loss and poor performance were selected for sampling. cELISA was used to detect antibodies of *T. equi* and *B. caballi*; and ticks were collected from fifty horse with for each region making a taxonomic study for each tick found as a competitive vector. Chi square test was applied to compare the rates of seroprevalence and were not statistical differences found. Sexes ($P>0.05$), According with the age, there were more seropositivity horses with less than five years that more than five years old (51% and 36%, respectively; $P=0.06$). We conclude that Torreón there was not EP infection but was very high prevalence at Villa Corzo, Chiapas and *T. equi* were the most prevalent hemoparasite. The distribution of seroprevalence is on Table 1. For the tick collection we found 32 tick species from 50 horses. *Amblyoma cajennense* 50% *Amblyoma maculatum* 31.25% *Amblyoma imitator* 18.75% for Villa Corzo and at Torreón we found 60 tick samples from 50 horses. *Otobius megnini* was 85%, *Rhipicephalus sanguineus* was 8.3% *O. megnini* + *R. sanguineus* was 5.0 and one larve not identified 1.7%.

Biography

Sergio O Yong-Wong is a veterinarian doctor. He received Master of Science degree from Antonio Narro Agrarian Autonomous University (UAAAN), and Equine Specialist certified by CONCERVET México. He works as a research professor at UAAAN Campus Laguna since 2004 to date. He is a Member of a Medical Veterinary Sciences Department and Animal Production at UAAAN. And he has written some research papers in national and international journals, and is a member of Mexican Association of Veterinary Equine Practitioner.

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