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Short Communication

Level of agreement between two commercially available rapid serological tests and the official screening test used to detect *Leishmania* seropositive dogs in Brazil

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Highlights

- Two rapid serological tests were compared to a screening test for detection of *Leishmania* spp. positive dogs in Brazil.
- There was substantial agreement (Kappa = 0.77) between the official screening test and the SNAP *Leishmania* Test.
- There was fair agreement (Kappa = 0.26) between the official screening test and the Alere *Leishmaniose* Ac Test.
- The use of the Alere *Leishmaniose* Ac Test could lead to an underestimation of the number of positive dogs in a given area.

Abstract

This study compared the level of agreement between two commercially available rapid serological tests and the official screening test used to detect *Leishmania* seropositive dogs in Brazil. Ninety-five canine sera from an area endemic for visceral leishmaniasis were tested by using the official immunochromatographic test (T1; rK28 antigen) based on dual path platform technology, a rapid ELISA (T2; purified *Leishmania* antigens) and an immunochromatographic test (T3; rK28 antigen) based on lateral flow. There was substantial agreement (Kappa 0.77; 95% confidence interval, CI, 0.62-0.91; $P < 0.001$; observed agreement 90.5%) between T1 and T2,

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