

Comparison of serological and molecular tests for detection of *Trypanosoma evansi* in domestic animals from Ghardaïa district, South Algeria

Auteurs :

Karima Benfodil, Philippe Büscher, Amine Abdelli, Nick Van Reet, Abdellah Mohamed Cherif, Samir Ansel, Said Fettata, Sara Dehou, Nicolas Bebronne, Manon Geerts, Fatima Balharbi, Khatima Ait-Oudhia

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Description :

Trypanosoma evansi (*T. evansi*) is a hemoflagellate parasite that affects a broad range of mammalian hosts and that causes a disease called surra. Diagnosis of surra based on clinical symptoms alone is inaccurate. Therefore, a variety of serological and molecular diagnostic tests are used to assist in the detection of *T. evansi* infections.

The aim of this study was to compare the diagnostic performance of four serological tests (CATT/*T. evansi*, immune trypanolysis, ELISA with purified variant surface glycoprotein RoTat 1.2 and with whole cell lysate) and two molecular PCR tests targeting sequences within the ribosomal genes locus (ITS1 TD PCR and 18S qPCR). Tests were carried out on blood samples from 161 dromedary camels, 93 horses, 129 goats, 168 sheep, 127 bovines and 76 dogs. Latent class analysis was carried out to calculate the sensitivity and specificity of each diagnostic test. Cohen's Kappa test ...

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