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Ana Cláudia Coelho

OCCURRENCE OF *COXIELLA BURNETII* IN RED DEER (*CERVUS ELAPHUS*) IN PORTUGAL

H. Pires¹, L. Cardoso^{2,3}, A.P. Lopes^{2,3}, M.C. Fontes^{2,3}, M. Matos⁴, C. Pintado¹, L. Figueira^{5,6}, J.R. Mesquita^{7,8,9}, A.C. Matos^{5,6}, **A.C. Coelho**^{2,3}

¹Polytechnic Institute of Castelo Branco, Castelo Branco, Portugal

²Animal and Veterinary Research Centre, Vila Real, Portugal

³Associate Laboratory for Animal and Veterinary Sciences (AL4AnimalS), Portugal

⁴Centre for the Research and Technology of Agro-Environmental and Biological Sciences (CITAB), UTAD

⁵Centre Research for Natural Resources, Environment and Society, Polytechnic Institute of Castelo Branco, Castelo Branco, Portugal,

⁶Researcher at Q-RURAL – Quality of Life in the Rural World, Polytechnic Institute of Castelo Branco, Castelo Branco, Portugal

⁷ICBAS – School of Medicine and Biomedical Sciences, Porto University, Porto, Portugal

⁸Epidemiology Research Unit (EPIUnit), Instituto de Saúde Pública da Universidade do Porto, Porto, Portugal

⁹Laboratório para a Investigação Integrativa e Translacional em Saúde Populacional (ITR), Porto, Portugal

*accoelho@utad.pt

Coxiella burnetii is a zoonotic agent that infects a wide range of animal species and causes the disease known as Q fever. Wild ruminants may be relevant in the epidemiology of *C. burnetii* infection. In order to investigate the significance of the wild red deer (*Cervus elaphus*) in the epidemiology of Q fever, a serological survey was performed on samples from 233 wild deer from the centre of Portugal. Specific antibodies to *C. burnetii* were detected with a commercial enzyme-linked immunosorbent assay (ELISA) (IDVet[®], Montpellier, France). We found that 5 samples (2.15%) were reactive for antibodies to *C. burnetii* and regarded as positive. Red deer from the centre of Portugal are exposed to *C. burnetii*. The study demonstrates that red deer could be reservoirs of infection for both livestock and humans.

Keywords: *Coxiella burnetii*; Occurrence; Red deer; Portugal