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Objective Detection and Quantification of Irregular Gait with a Portable Inertial Sensor-based System in Horses During an Endurance Race – A Preliminary Assessment

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## ACCEPTED MANUSCRIPT

1 Objective Detection and Quantification of Irregular Gait with a Portable Inertial 2 Sensor-based System in Horses During an Endurance Race – A Preliminary Assessment Marco A. F. Lopes\* ●, Angela Eleuterio ●, Monica C. Mira ● 3 \* Corresponding author. 4 5 • Department of Veterinary Medicine and Surgery, College of Veterinary Medicine, 900 E Campus Dr, Columbia, MO 65211, USA; 6 7 2 Catarina Afonso - Clínica Veterinária, Unipessoal, Lda, Rua José Francisco Silva Álvaro 8 25, Ajustrel, 7600, Portugal; 9 3 AL EQUINE - Innovative Veterinary Services, Rua Maria Joaquina Caeiro, 16E, Evora, 7005-555, Portugal. 10 \*\* Dr. Lopes' current address: Equine Health and Performance Centre 11 12 School of Animal and Veterinary Sciences University of Adelaide 13 1454 Mudla Wirra Rd 14 Roseworthy, SA, 5371, Australia 15 E-mail: maflopes@gmail.com 16 17 Phone: +61 8 8313 9999 Extension 2. Mobile phone: +61 499 354 557 18 19

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