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Assessment of distribution of ventilation and regional lung compliance by electrical impedance tomography in anaesthetized horses undergoing alveolar recruitment manoeuvres

Tamas D. Ambrisko, Johannes Schramel, Klaus Hopster, Sabine Kästner, Yves Moens

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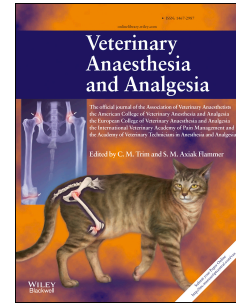
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1 RESEARCH PAPER

2 *T Ambrisko et al.*

3 Alveolar recruitment manoeuvre in horses

4 **Assessment of distribution of ventilation and regional lung compliance by electrical**
5 **impedance tomography in anaesthetized horses undergoing alveolar recruitment**
6 **manoeuvres**

7 Tamas D Ambrisko*, Johannes Schramel*, Klaus Hopster†, Sabine Kästner† & Yves Moens*

8 *Anaesthesiology and Perioperative Intensive Care Medicine, Department for Companion

9 Animals and Horses, University of Veterinary Medicine, Vienna, Austria

10 †Clinic for Horses, University of Veterinary Medicine, Hannover, Germany

11

12 **Correspondence:** Tamas D Ambrisko, Anaesthesiology and Perioperative Intensive Care

13 Medicine, Department for Companion Animals and Horses, University of Veterinary Medicine,

14 Veterinärplatz 1, A-1210 Vienna, Austria. E-mail: tambrisko@hotmail.com

15

16 **Abstract**

17 **Objective** To examine changes in the distribution of ventilation and regional lung compliances in
18 anaesthetized horses during the alveolar recruitment manoeuvre (ARM).

19 **Study design** Experimental study in which a series of treatments were administered in a fixed
20 order on one occasion.

21 **Animals** Five adult Warmblood horses.

22 **Methods** Animals were anaesthetized (xylazine, midazolam–ketamine, isoflurane), placed in
23 dorsal recumbency and ventilated with 100% oxygen using peak inspiratory pressure (PIP) and
24 positive end-expiratory pressure (PEEP) of 20 cmH₂O and 0 cmH₂O, respectively. Thoracic

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