

# León 2012

## Joint Meeting of

30<sup>th</sup> Meeting of the European Society of Veterinary Pathology

Annual Meeting of the European College of Veterinary Pathologists

24<sup>th</sup> Annual Meeting of the Spanish Society of Veterinary Pathology

León (Spain) September 5th to 8th of 2012





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30th Meeting of the European Society of Veterinary Pathology,  
Annual Meeting of the European College of Veterinary Pathologist  
24<sup>th</sup> Annual Meeting of the Spanish Society of Veterinary Pathology

This meeting is dedicated to honour

**Prof. Franco Guarda**

León (Spain) September 5<sup>th</sup> to 8<sup>th</sup> 2012



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## P183- EVALUATION AND CHARACTERIZATION OF INTESTINAL OEDEMA IN PIGS

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**Introduction:** Authors propose a standardization system for more accurate histopathological evaluation of intestinal oedema in pigs. Specific alterations were assumed to characterize Grade1, Grade2 and Grade3 oedema.

**Material and Methods:** Eighteen Large White pigs underwent total intravenous anaesthesia (TIVA) with propofol and remifentanyl. 25 ml/kg of arterial blood were removed from the femoral artery. Volume was replaced using Ringer Lactate in Gr1 (n=6) and Hydroxyethyl starch 130/0.4 in Gr2 (n=6), 20 minutes after bleeding. Animals of Gr3 (n=6) underwent TIVA without haemorrhage or volume replacement. One hour after, pigs were euthanized and small intestine samples taken for histopathological examination. Oedema was classified in a specific scale from Grade0 to Grade3 (normal, mild, moderate and marked).

**Results:** Grade2 oedema was predominant in duodenum and jejunum in Gr1 (n=3, n=4, respectively). Grade1 was predominant in ileum in both Gr1 (n=5) and Gr2 (n=4), being Grade0 the grade more often observed in this segment in Gr3 (n=3). Jejunum was the only intestinal segment where Grade3 oedema was observed, and only in Gr2 (n=1). The highest frequency of Grade0 oedema for all the intestinal segments was observed in Gr3 (n=8).

**Conclusion:** The characterization used for the different grades of oedema improved uniformity when deciding which grade to attribute in each case and may allow standardization of oedema grading in further studies.