León 2012 Joint Meeting

of

30th Meeting of the European Society of Veterinary Pathology,
Annual Meeting of the European College of Veterinary Pathologist
24th Annual Meeting of the Spanish Society of Veterinary Pathology

This meeting is dedicated to honour

Prof. Franco Guarda

León (Spain) September 5th to 8th 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 remifentanil. 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 were 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.