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Use of ultrasound in atelectasis and lung recruitment

The aim of this lecture is to discuss the impact of atelectasis in small animals and to evaluate the use of ultrasonography for detection of atelectasis and for guiding the recruitment maneuvers.

Several human studies showed that lung ultrasound (LUS) and the use of specific scoring systems are able to identify and to measure the extent of atelectasis. The comparison between preoperative and intraoperative/postoperative LUS can detect even minimal alterations in lung aeration, moreover the monitoring of the lung during the recruitment allows to identify the opening pressure value of PEEP, thus potentially reducing the possibility of lung overinflation.

Routinely use of LUS during anaesthesia could help in customizing the timing and the pressure of recruitment for each patient.

ERAS for veterinary emergency and critical care: time for action

The lecture will describe the cornerstones of the ERAS approach and the methods used to build a specific ERAS protocol for veterinary emergency laparotomy surgery and the results obtained by its use. The lecture will also focus on the difficulties encountered in the application of the ERAS protocols in 2 different clinical settings.

The Enhanced Recovery After Surgery (ERAS) program is a multimodal perioperative care approach composed of standardized evidence-based interventions, that aims to optimize perioperative management of patients undergoing major surgical procedures.

Local nerve block & Vascular Access lab

The aim of this lab is to teach some ultrasound guided blocks that can be useful for the pain management of critical patients and to show how to use ultrasonography in the management of vascular access. During the lab the attendants will be able to perform the procedures under the direct supervision of the experts.