

Angela Briganti

Use of ultrasound in atelectasis and lung recruitment| *Angela Briganti*

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.

Diaphragmatic excursion and ventilation | *Angela Briganti & Chiara Di Franco*

Diaphragmatic excursion (DE) was used in human medicine (HM) to detect respiratory problems since the end of 80s. In recent years, the use of ultrasound for the evaluation of DE in HM has been used to detect several problems like phrenic-nerve-injury-induced diaphragmatic paralysis, weaning critically ill patients or chronic kidney disease patients with hemodialysis. The goals of our lectures will be to describe the point of care diaphragmatic ultrasound, discuss about the different techniques for evaluating the diaphragmatic function in awake and ventilated patients.

Local nerve block & Vascular Access POCUS lab – *Soren Boysen & Angela Briganti*

This hands-on lab provides participants with the opportunity to learn and practice essential point-of-care ultrasound (POCUS) interventional techniques. Focused on real-world applications, attendees will receive instruction in selected, more practical ultrasound-guided nerve blocks, demonstrated and practiced on canine cadavers, as well as ultrasound-guided vascular access techniques, using a chicken breast phantom model. Emphasis will be placed on optimizing image acquisition, needle guidance, and procedural safety to enhance clinical outcomes.

Led by recognized leaders in veterinary POCUS interventional procedures, including Angela Briganti, Soren Boysen, and Chiara Di Franco, this lab offers unparalleled expertise and mentorship. Participants will gain confidence and proficiency through guided practice, improving their ability to perform these advanced procedures in clinical settings. Whether you are new to interventional ultrasound or seeking to refine your skills, this lab provides an invaluable opportunity to learn from the best in the field.