

Ultrasonographic assessment of intravascular volume in cats

Diagnosing hypovolaemia and hypervolaemia in cats is challenging. Even once diagnosed managing either hypovolemia or hypervolemia in cats is even more challenging. Point-of-care ultrasound has filled an enormous gap in our monitoring arsenal providing a real-time, reliable, user-friendly tool in the hands of clinicians. However, assessment intra-vascular volume in cats is most likely one of the best features of POCUS. In this talk we will outline the current challenges with IV volume assessment in cats, discuss the US techniques used to overcome those challenges, and provide a clinical guideline for managing IV “dysvolaemias” in cats.

The “business end” of capillaries and cellular energy production – Assessment of microcirculation, tissue perfusion and oxygen consumption

“Cryptic” shock might not be so cryptic anymore! This presentation focuses on tools evaluating microcirculatory function and oxygen consumption, covering a variety of biomarkers and devices from simple acid-base status and SvO₂ to more sophisticated equipment such as SDF video microscopy, microcirculatory ultrasound modalities, near-infra red spectroscopy, among others. Advantages and disadvantages, and current veterinary evidence will be discussed focusing on their clinical utility. While some of them are still reserved for the research setting others are making their way to the bedside and might prove robust tools for development of targeted therapeutic strategies. It will present the attendants with brief descriptions of the methodology and their applications and potentially inspire future research.

How to fit a mansion into a tiny house – adapt an ER into your clinic

This interactive talk is aimed for general practitioners that deal with emergencies on daily basis. It focusses on how to optimize space and resources within the practice to allow effective and safe admission of emergencies during busy working hours and after-hours. Spaces can be effectively transformed into a temporary ER with minimal equipment. More often than not, minimal equipment is sufficient to deliver optimal care, and this will be discussed using every-day examples. What is considered essential monitoring and emergency treatments? How can a “Crash” cart/box/bag be effectively used? What portable oxygen sources do we have available? Logistical challenges associated with admitting unexpected emergencies will be discussed, focusing on scheduling and team preparedness.

Let’s chit-chat about cats

PechaKucha (meaning chit-chat in Japanese) is a storytelling style of presentation in which the presenter shows 20 slides and spends 20 seconds per slide to deliver information on a subject of interest. PechaKucha-style presentations on five relevant topics in feline emergency and critical care will be delivered as follows: 1. Hypothermia and how to best attempt to manage it in cats; 2. Intra-vascular volume overload and what makes cats susceptible; 3. Fluid responsiveness and how to approach cats in non-cardiogenic circulatory compromise; 4. Lactate and how useful of a prognostic indicator it is in cats, and last but not least; 5. Non-invasive blood pressure measurement and how to use it in hypotensive cats. Available literature will be examined and critiqued in the spirit of delivering a clinical guideline. A short Q/A session will follow each 6.7 min presentation.