

Haemorrhagic shock: pathophysiology, diagnosis, and treatment

Hemorrhagic shock is a common condition in veterinary patients. This lecture will describe the various etiologies along with macroscopic (cardiovascular) and microscopic (microcirculation, coagulation, and endothelial dysfunction) responses to large volume blood losses. We will also review the relevant recent literature and discuss a state-of-the-art approach to managing critically-ill patients with profound blood losses.

Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA): what's the scoop?

Resuscitative endovascular balloon occlusion of the aorta has emerged as a promising therapy for the management of non-compressible torso-hemorrhage (NCTH). This presentation will introduce the attendees to the challenges associated with NCTH as well as the pros and cons of this intervention. We will review the most recent literature and discuss next generation catheters and automated critical care platforms.

Extracorporeal therapy: beyond hemodialysis and apheresis (HG)

Extracorporeal blood purification has boomed in veterinary medicine over the recent years. Novel interventions have emerged in the human field and may present several benefits for our veterinary patients. This talk will discuss extracorporeal blood purification using membrane adsorption in the setting of systemic inflammation and life-threatening hyperkalemia refractory to medical therapy. An introduction to extracorporeal membrane oxygenation will be provided.