

Bridging ECC and Internal Medicine: Advanced Knowledge for Urgent Patient Care
Live Virtual Course | Date: November 19-20, 2025

DAY 1 Wednesday, November 19, 2025		
Time (Mountain Time)	Topic	Presenter(s)
8:00 - 8:15 am	Welcome and Introductions	<i>Dr. Shane Bateman</i>
8:15 - 9:15 am	Triaging Respiratory Emergencies <ul style="list-style-type: none"> • Provide rapid assessment and sedation of the respiratory small animal patient. • Understand clinical features of respiratory distress and interpret ancillary diagnostic testing to support clinical intervention. • Select appropriate oxygen support modalities and assess response to therapy. • Recognize the need for advanced oxygen support – high flow oxygen therapy / mechanical ventilation. 	<i>Dr. Alexa Bersenas</i>
9:15 – 10:15 am	High Flow Nasal Oxygenation- State of the Art <ul style="list-style-type: none"> • Explain the underlying mechanisms of action for HFNC when used as a respiratory support modality, based on current evidence. • Describe the advantages & disadvantages of HFNC versus traditional supplemental oxygen, non-invasive and invasive ventilation. • Create the settings for HFNC initiation in a new patient and communicate the risks with an appropriate level of concern. 	<i>Dr. Tiffany Jagodich</i>
10:15 – 10:30 am	Break	
10:30 – 11:30 am	Pleural Space and Lung Ultrasound Beyond Free Fluid and the Glide Sign <ul style="list-style-type: none"> • Describe the sonographic findings that define the lung point and abnormal curtain signs, and what they indicate. • List the difference between B-lines and tissue like patterns. • Describe the 4 common sonographic tissue-like patterns identified using lung ultrasound and explain what they indicate. 	<i>Dr. Søren Boysen</i> <i>Dr. Serge Chalhoub</i>
11:30 am – 12:30 pm	Panel: Pearls of Wisdom- Respiratory Emergencies <ul style="list-style-type: none"> • Critically evaluate diagnostic and therapeutic strategies for managing small animal patients with acute respiratory compromise, including when to escalate interventions such as advanced oxygen therapy or interventional procedures. • Integrate evidence-based “pearls” from case experience into individualized treatment plans for dogs and cats with diverse respiratory emergencies, improving patient stabilization and clinical outcomes. 	<i>Dr. Alexa Bersenas</i> <i>Dr. Tiffany Jagodich</i> <i>Dr. Søren Boysen</i> <i>Dr. Serge Chalhoub</i> <i>Moderator: Dr. Fiamma Gomez De Witte</i>

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DAY 1 (continued) Wednesday, November 19, 2025		
Time (Mountain Time)	Topic	Presenter(s)
12:30 – 1:30 pm	Lunch Break	
1:30 – 2:30 pm	<p>Fluid Resuscitation of Shock Syndromes</p> <ul style="list-style-type: none"> Differentiate compensated and decompensated states of shock, and classify shock syndromes based on clinical presentation, diagnostic findings, and pathophysiologic mechanisms. Formulate patient-specific fluid resuscitation plans by integrating shock classification with current consensus guidelines on fluid selection, dosing, and administration. Evaluate response to fluid therapy using static and dynamic monitoring tools, assess fluid responsiveness, and apply strategies to prevent fluid overload. 	<i>Dr. Xiu Ting Yiew</i>
2:30 – 3:30 pm	<p>Don't Be Shocked: Rational Use of Vasopressors and Inotropes for the Treatment of Vasodilatory Shock</p> <ul style="list-style-type: none"> Understand the pathophysiology of vasodilatory shock, including the mechanisms causing decreased systemic vascular resistance and cardiac contractility. Compare and contrast the mechanisms of action among the common vasopressors and inotropes and how they influence hemodynamic parameters. Select and titrate the most appropriate vasopressor or inotropic therapy for a small animal patient with vasodilatory shock using the scientific evidence available in humans and small animals. 	<i>Dr. Deborah Silverstein</i>
3:30 – 3:45 pm	Break	
3:45 – 4:45 pm	<p>The Role of Lactate in Clinical Decision-Making</p> <ul style="list-style-type: none"> Understand the mechanisms underlying lactate production and clearance. Recognize and categorize the different causes of hyperlactataemia in clinical patients. Identify when lactate should be used to guide diagnostic and therapeutic interventions and understand how to respond to hyperlactatemia in different clinical scenarios. 	<i>Dr. Patricia Rosenstein</i>

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DAY 1 (continued) Wednesday, November 19, 2025		
Time (Mountain Time)	Topic	Presenter(s)
4:45 – 5:45 pm	<p>Panel: Pearls of Wisdom- Shock Resuscitation</p> <ul style="list-style-type: none"> Differentiate the hemodynamic and clinical presentations of various shock syndromes and apply practical, case-based strategies for targeted fluid resuscitation, vasopressor, and inotrope use. Synthesize expert recommendations and nuanced clinical approaches to optimize resuscitation endpoints, avoid common pitfalls, and improve survival in critically ill patients. 	<p><i>Dr. Xiu Ting Yiew</i> <i>Dr. Deborah Silverstein</i> <i>Dr. Patricia Rosenstein</i></p> <p><i>Moderator: Dr. Fiamma Gomez De Witte</i></p>
5:45 pm	Close Day 1	

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DAY 2 Thursday, November 20, 2025		
Time (Mountain Time)	Topic	Presenter(s)
8:00 – 8:15 am	Welcome	<i>Dr. Shane Bateman</i>
8:15 – 9:45 am	Antithrombotics: What, When, Why and How? <ul style="list-style-type: none"> Understand the pathophysiology of thrombosis and its implications in critically ill veterinary patients. Identify appropriate indications for anticoagulant and antiplatelet therapy, considering patient-specific risks and benefits. Develop strategies for monitoring anticoagulation efficacy and managing complications such as hemorrhage in critically ill patients. 	<i>Dr. Robert Goggs Dr. Julien Guillaumin</i>
9:45 – 10:45 am	Managing Refractory Acute Seizure Activity <ul style="list-style-type: none"> Relate the appropriate diagnoses (status epilepticus, cluster seizures, drug resistance, and nonconvulsive seizures) to the presentation of refractory acute seizures. Understand how refractory seizures arise and why these present diagnostic and treatment challenges. Apply spectrum of care diagnostic and treatment options. 	<i>Dr. Fiona James</i>
10:45 – 11:00 am	Break	
11:00 am – 12:30 pm	Panel: Feline Urinary Emergencies <ul style="list-style-type: none"> Formulate diagnostic and therapeutic plans for common feline urinary emergencies by applying current evidence and expert consensus to case-based scenarios. Apply interdisciplinary principles to manage peri-procedural stabilization, analgesia, and long-term renal implications in cats presenting with obstructive or oligoanuric urinary conditions. 	<i>Dr. Serge Chalhoub Dr. JD Foster Dr. Marilyn Dunn Moderator: Dr. Amber Graham</i>
12:30 – 1:30 pm	Lunch Break	
1:30 – 2:30 pm	Management of Sodium Disorders <ul style="list-style-type: none"> Understand the physiological principles governing sodium and water balance, including osmoregulation and volume regulation. Recognize and differentiate between acute and chronic dysnatremias in veterinary patients, using diagnostic and clinical evaluation techniques. Develop appropriate treatment plans for hyponatremia and hypernatremia, with a focus on safe correction strategies to prevent adverse neurological outcomes. 	<i>Dr. Julien Guillaumin</i>

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DAY 2 (continued) Thursday, November 20, 2025		
Time (Mountain Time)	Topic	Presenter(s)
2:30 – 3:30 pm	Management of Calcium Disorders <ul style="list-style-type: none"> • Enable the clinician to suspect these disorders by their clinical signs. • Guide the clinician through the logical steps needed for making the correct clinical diagnosis. • Teach the fundamentals of treatment required to successfully manage these disorders. 	<i>Dr. Michael Schaer</i>
3:30 – 3:45 pm	Break	
3:45 – 4:15 pm	Strong Ions- Who Cares? <ul style="list-style-type: none"> • Explain the fundamental principles of the strong ion approach to acid-base balance and how it differs from traditional bicarbonate-based models. • Apply strong ion concepts to the interpretation of acid-base disturbances in critically ill veterinary patients to guide more precise treatment strategies. 	<i>Dr. Shane Bateman</i>
4:15 – 5:45 pm	Panel: Managing Electrolyte Disturbances in Endocrine Emergencies <ul style="list-style-type: none"> • Interpret electrolyte derangements in endocrine emergencies and prioritize corrective strategies that support stabilization and long-term disease management. • Integrate endocrine pathophysiology with real-time electrolyte management to improve outcomes in complex cases requiring both internal medicine and ECC expertise. 	<i>Dr. Julien Guillaumin</i> <i>Dr. Michael Schaer</i> <i>Dr. Shane Bateman</i> <i>Moderator: Dr. Amber Graham</i>
5:45 pm	Closing Remarks	