

**Respiratory Emergencies for Internists  
Live Virtual Course  
April 3-4, 2023**

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<b>DAY 1 Monday, April 3, 2023</b>		
<b>Time (Mountain Time)</b>	<b>Topic</b>	<b>Presenter(s)</b>
8:00-8:15 am	<b>Welcome and Introductions</b>	
8:15-9:15 am	ICU Says My Patient Needs a Ventilator <ul style="list-style-type: none"> <li>Identify triggers to initiate mechanical ventilation.</li> <li>Employ a cohesive team approach to mechanical ventilation.</li> <li>Implement a step-by-step approach to initiating mechanical ventilation, prevent common complications, and understand the criteria for weaning from mechanical ventilation.</li> </ul>	<i>Dr. Guillaume Hoareau</i>
9:15-9:45 am	Arterial Blood Gases- Do They Ever Really Help? <ul style="list-style-type: none"> <li>Review normal oxygenation and the core mechanisms of hypoxemia as a basis for understanding techniques that may be employed to monitor oxygenation.</li> <li>Recall normal ventilation and disease processes that may alter ventilation.</li> <li>Interpret arterial blood gases and utilize multiple techniques to evaluate the presence and severity of reduced gas exchange efficiency. These concepts will also be demonstrated in cases.</li> </ul>	<i>Dr. Kate Farrell</i>
9:45-10:00 am	<b>Break</b>	
10:00-10:30 am	My Bulldog Is Airway Obstructing, How Do I Get Him ASLEEP Now? <ul style="list-style-type: none"> <li>Understand pathophysiology of airway obstruction and how it negatively effects cardiopulmonary physiology</li> <li>Be familiar with anesthetic protocols to achieve rapid sequence induction</li> <li>Be familiar with different methods to intubate difficult airway patients</li> </ul>	<i>Dr. Andre Shih</i>
10:30-11:30 am	OK, My Bulldog Is Asleep. Now, How Do I Wake Him Up? <ul style="list-style-type: none"> <li>Identify dogs and cats at risk for brachycephalic obstructive airway syndrome regardless of breed.</li> <li>Discuss possible complications of anesthetic recovery for brachycephalic pets</li> <li>Tailor pharmacologic therapy to decrease the risk of regurgitation and/or aspiration.</li> <li>Maximize patient airflow on recovery by utilizing patient position, nebulization, physical, and pharmacologic interventions.</li> </ul>	<i>Dr. Chrissie Rutter</i>

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**DAY 1**  
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Time (Mountain Time)	Topic	Presenter(s)
11:30 am – 12:30 pm	<p>Group Discussion on Morning Topics</p> <ul style="list-style-type: none"> <li>• Understand the benefits and limitations of arterial blood gas analysis in respiratory emergency patients.</li> <li>• Understand indications for and principles of ventilatory support in respiratory emergency patients.</li> <li>• Understand the specific challenges associated with stabilizing, anesthetizing and recovering respiratory emergency patients, particularly breeds with brachycephalic airway syndrome.</li> </ul>	<p><i>Dr. Guillaume Hoareau, Dr. Kate Farrell, Dr. Andre Shih, Dr. Chrissie Rutter</i></p> <p><i>Moderator: Dr. Andrew Mackin</i></p>
12:30-1:15 pm	<b>Lunch Break</b>	
1:15-1:45 pm	<p>B Lines, Glide Signs... Is Lung Ultrasound Annoying or Helpful?</p> <ul style="list-style-type: none"> <li>• Define “wet lung” vs “dry lung” and explain why this terminology can be misleading when it comes to lung ultrasound.</li> <li>• Discuss if more than 3 B-lines at a single sonographic window is always a clinical problem.</li> <li>• Explain how lung sliding can both rule in and rule out pneumothorax.</li> </ul>	<i>Dr. Søren Boysen</i>
1:45–2:45 pm	<p>Chest Radiographs- What Am I Missing? Thoracic CT- What More Can I See?</p> <ul style="list-style-type: none"> <li>• Radiographically identify axial rotation of tracheal collapse and mainstem bronchus collapse.</li> <li>• Radiographically identify complications of inflammatory airway disease such as bronchiectasis and cor Pulmonale.</li> <li>• Radiographically identify thoracic manifestations of pancreatitis.</li> <li>• List three neoplasms and three systemic infections that cause an unstructured interstitial pulmonary pattern.</li> <li>• Identify the CT findings and sequelae associated with bronchial/bronchiolar disease.</li> <li>• Identify the CT findings of pulmonary thromboembolism.</li> <li>• Differentiate between lung lobe torsion and pulmonary masses.</li> <li>• Differentiate between common causes of spontaneous pneumothorax (migrating foreign bodies, other infectious disease, and bullae).</li> </ul>	<i>Dr. Marc Seitz</i>
2:45–3:00 pm	<b>Break</b>	

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<b>Time (Mountain Time)</b>	<b>Topic</b>	<b>Presenter(s)</b>
3:00–3:30 pm	<p>The Right Heart is Your Frenemy</p> <ul style="list-style-type: none"> <li>• Appreciate how to recognize if a patient has PH.</li> <li>• Appreciate the recommended approach to assessing patients with suspected PH.</li> <li>• Understand the rationale behind treatment recommendations for PH.</li> </ul>	<i>Dr. Lance Visser</i>
3:30–4:30 pm	<p>The Cardiologist Is On Vacation...And 3 CHF Dogs Just Showed Up In the ER And That EKG Looks Funny</p> <ul style="list-style-type: none"> <li>• Describe findings that distinguish CHF from non-cardiac dyspnea.</li> <li>• Outline a treatment plan for a dog with first-time CHF and a dog with recurrent CHF.</li> <li>• Identify and initiate treatment for common arrhythmias associated with CHF.</li> </ul>	<i>Drs. John Rush and Emily Karlin</i>
4:30-5:30 pm	<p>Group Discussion on Afternoon Topics</p> <ul style="list-style-type: none"> <li>• Understand the uses of respiratory radiography, ultrasound and computerized tomography in respiratory emergency patients.</li> <li>• Understand recognition and treatment of various cardiac-related conditions that are associated with the respiratory system, such as cardiogenic pulmonary edema and pleural effusion, and pulmonary hypertension.</li> </ul>	<i>Dr. Søren Boysen, Dr. Marc Seitz, Dr. Lance Visser, Dr. John Rush, Dr. Emily Karlin</i>  <i>Moderator: Dr. Andrew Mackin</i>

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DAY 2 Tuesday, April 4, 2023		
Time (Mountain Time)	Topic	Presenter(s)
8:00-8:15 am	<b>Welcome and Introductions</b>	
8:15-8:45 am	The Yorkie Can't Breathe - Would A Stent Now Help?	<i>Dr. Dana Clarke</i>
8:45-9:15 am	Pleural Space Gremlins - Pneumothorax/Pleural Effusion <ul style="list-style-type: none"> <li>• Review placement of chest tubes.</li> <li>• Discuss management of spontaneous pneumothorax.</li> <li>• Review the management of complicated effusions</li> <li>• Understand the “trapped lung”.</li> </ul>	<i>Dr. Liz Rozanski</i>
9:15-10:15 am	When Should I Sample and What Should I Sample? <ul style="list-style-type: none"> <li>• Design an appropriate diagnostic work up for the animal presenting in respiratory distress.</li> <li>• Construct a decision tree.</li> <li>• Distinguish between inspiratory and expiratory respiratory distress in order to create the most logical and efficient intervention for the patient.</li> </ul>	<i>Dr. Lynelle Johnson</i>
10:15-10:30 am	<b>Break</b>	
10:30-11:00 am	Respiratory Cytology and Beyond- Clinical Pathology You Should Know! <ul style="list-style-type: none"> <li>• Know the indications for fine-needle aspirates vs. respiratory washes.</li> <li>• Know the basics of preparation and sample handling and how they impact sample quality and interpretation.</li> <li>• Understand the interpretation of cytologic samples from the respiratory tract; given a cytologic description, be able to make appropriate clinical inferences.</li> </ul>	<i>Drs. Leslie Sharkey and Francisco Conrado</i>
11:00 am -12:00 pm	Group Discussion on Morning Topics <ul style="list-style-type: none"> <li>• Construct a treatment plan for dogs with severe airway collapse and discuss when stenting might be indicated.</li> <li>• Compare and contrast methods for sample acquisition from dogs and cats with respiratory disease.</li> <li>• Recall major causes of pyo- and pneumothorax and determine treatment plans for animals with these conditions.</li> </ul>	<i>Dr. Dana Clarke, Dr. Liz Rozanski, Dr. Lynelle Johnson, Dr. Leslie Sharkey, Dr. Francisco Conrado</i>  <i>Moderator: Dr. Jonathan Dear</i>
12:00-12:45 pm	<b>Lunch Break</b>	

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**DAY 2**  
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12:45-1:45 pm	<p>My IMHA Dog Is Suddenly Breathing Hard - What Can I Do and How Could I Have Prevented This?</p> <ul style="list-style-type: none"> <li>• Create a differential diagnosis list for acute changes in respiratory character in dogs with IMHA.</li> <li>• Formulate a diagnostic and treatment plan for evaluation of this cohort of dogs.</li> <li>• Describe preventative strategies for affected dogs.</li> </ul>	<i>Dr. Alex Lynch</i>
1:45-2:15 pm	<p>Is It TRALI or TACO?</p> <ul style="list-style-type: none"> <li>• Identify risk factors associated with the development of TRALI and TACO.</li> <li>• Describe the differences between the pathophysiology of TRALI and TACO.</li> <li>• Develop treatment plans for TRALI and TACO.</li> </ul>	<i>Dr. Amy Molitoris</i>
2:15-2:30 pm	<b>Break</b>	
2:30-3:30 pm	<p>Recurrent Pneumonia</p> <ul style="list-style-type: none"> <li>• Understand when airway sampling is indicated for fluid analysis, cytology, and culture.</li> <li>• Understand the most recent evidence in small animal medicine regarding duration of therapy for antimicrobials.</li> <li>• Develop a comprehensive diagnostic plan for dogs with recurrent pneumonia.</li> </ul>	<i>Dr. Ian Destefano</i>
3:30-4:30 pm	<p>Group Discussion on Afternoon Topics</p> <ul style="list-style-type: none"> <li>• Assess if new respiratory distress is related to infection, thrombosis, volume overload or inflammation.</li> <li>• Describe, using a case-based approach, treatment options for recurrent pneumonias, including what not to do!</li> <li>• Understand how anemia and transfusions affect pulmonary function.</li> </ul>	<p><i>Dr. Alex Lynch,</i> <i>Dr. Amy Molitoris,</i> <i>Dr. Ian Destefano</i></p> <p><i>Moderator:</i> <i>Dr. Liz Rozanski</i></p>
4:30 pm	<b>Closing Remarks</b>	<i>Dr. Liz Rozanski</i>