**SESSION #1: NEUROLOGICAL, CARDIAC, PULMONARY**

**Tuesday, September 9, 2025; 5:00-7:00 pm Eastern**

Course Director: Nicole Arkin, MD, MST, Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine

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| 5:00 PM | **Introduction** |  |
| 5:10 PM | **PEEP: What is peep, benefits of peep, complications of peep and how to choose the right amount for your patient including: should be set above the lower inflection point on a pressure-volume curve to achieve optimal alveolar recruitment and avoid lung overdistention** | *An Diem La, MD, Stanford Healthcare* |
| 5:23 PM | **Nitric Oxide: reasons for use, how it works, how it is metabolized, complications (e.g. including Inhaled nitric oxide is removed rapidly by diffusion through tissues to enter red blood cells, where it reacts with oxyhemoglobin to produce methemoglobin and nitrate)** | *Benjamin Barmaan, Loma Linda University Medical Center* |
| 5:36 PM | **Drowning: including signs, symptoms, management and complications victims have fluid leak into the lungs that can lead to profound hypoxia and relative hypovolemia** | *Joseph Zackary, MD, University of Cincinnati Medical Center* |
| 5:49 PM | **Tension PTX: management, diagnosis, treatment- make sure Needle decompression for tension pneumothorax at the anterior axillary line, 4th or 5th preferred and why (Intercostal space has a smaller distance to the pleural cavity and a lower failure rate)** | *Jeff Pepin, MD FACEP, FAAEM, FASE, University of Minnesota* |
| 6:02 PM | **Causes and Management of neurologic dysfunction after thoracoabdominal aneurysm repair** | *John Dollerschell, MD, University of Wisconsin* |
| 6:15 PM | **Diagnosis of causes of shock and management.** | *Vivian Doan, MD, University of Chicago (but going to Northwestern University in March)* |
| 6:28 PM | **Mechanical Circulatory support** | *Richard S Tenure, MD, Northshore University Hospital (Northwell Health)* |
| 6:43 PM | **Moderated Q&A** | *Course Director: Nicole Arkin, MD, MST* |

**SESSION #2: DIGESTIVE/NUTRITION, RENAL, HEPATOLOGY**

**Thursday, September 11, 2025; 5:00-7:00 pm Eastern**

Course Director: Crystal Adams, MD, BS, Assistant Professor of Anesthesia and Critical Care Medicine, George Washington University

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| 5:00 PM | **Introduction** |  |
| 5:10 PM | **Diagnosis and Management of Acute Kidney Injury** | *Ashie Kapoor, MD, UCLA* |
| 5:23 PM | **Non-anion gap hyperchloremic metabolic acidosis: Differential and Diagnosis** | *Mohamed Ahmed Labib Ginina MBBCh, University of Louisville* |
| 5:36 PM | **Diagnosis and Management of Severe Hyponatremia** | *Haseeb Khan, DO, Detroit Medical Center - Wayne State University* |
| 5:49 PM | **Diagnosis and Management of Acute Hepatitis** | *Akshatha Rao, Cleveland Clinic* |
| 6:02 PM | **Enteral and Parenteral Nutrition** | *Tara Ramaswamy, MD Stanford University* |
| 6:15 PM | **Indirect Calorimetry** | *Vishnu Madapura, University of Colorado* |
| 6:28 PM | **Nasogastric Tube Feedings: Management and Complications** | *Brandon Hernandez, MD, University of Michigan* |
| 6:43 PM | **Moderated Q&A** | *Course Director:*  *Crystal Adams, MD, BS* |

**SESSION #3: HEMATOLOGY, INFECTIOUS DISEASE, PREGNANCY**

**Tuesday, September 16, 2025; 5:00-7:00 pm Eastern**

Course Director: Allison Hyatt, MD, Assistant Professor, Department of Anesthesiology, Emory University

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| 5:00 PM | **Introduction** |  |
| 5:10 PM | **Anticoagulation and reversal: Vitamin K antagonists, Heparins, DOACS and reversals, clinical examples in ICU/periop** | *Robert Thomas Arrigo, MD, MS, Cardiothoracic Anesthesiologist and Intensivist, University of Wisconsin-Madison* |
| 5:23 PM | **Evaluate thromboembolism in pregnancy: presentation, diagnostic modalities, treatment and prophylaxis Rx, peri and post-partum considerations** | *Krishnan Ramanujan, MD, Mayo Clinic Rochester* |
| 5:36 PM | **Liver pathology in pregnancy: differentiating between acute fatty liver of pregnancy, HELLP and intrahepatic cholestasis of pregnancy** | *Jai Madhok, Stanford Health Care* |
| 5:49 PM | **Blood transfusions: Allergic rxns, transfusion reactions, TRALI, fevers, blood borne infections etc and identify strategies to reduce the risk of transfusions** | *Kenji Tanabe, MD, University of Colorado* |
| 6:02 PM | **Fungal infections in the ICU, diagnosis and tx options, risk factors, include clinical factors that galactomannan assay.** | *Kurt Alberson, MD, University of Chicago* |
| 6:15 PM | **Diagnostic stewardship and treatment and prevention strategies for a Clostridium difficile** | *Margo Hoyler, MD, Weill Cornell* |
| 6:28 PM | **Management strategies of an obstetric cardiac arrest, identify key differentiences in ACLS (and what is the same) and peripartum implications** | *Ivanna Sanoja, MD, OHSU* |
| 6:43 PM | **Moderated Q&A** | *Course Director: Crystal Adams, MD, BS* |

**SESSION #4: ENDOCRINE, RHEUMATOLOGY, DERMATOLOGY, ICU ADMINISTRATION**

**Thursday, September 18, 2025, 5:00-7:00 pm Eastern**

Course Director: Ahmed Zaky, MD, MBA, MPH, MS, MSc, Professor, Zaky-AhmedAssociate Vice Chair for Cardiac Anesthesia Quality and Safety Research and Clinical Interests, Critical Care Medicine, Cardiothoracic Anesthesia, Echocardiography, University of Alabama at Birmingham

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| 5:00 PM | **Introduction** |  |
| 5:10 PM | **HS: ICU administration** | *Paul D. Gallo, MD , University of Virginia* |
| 5:23 PM | **The Pituitary Under Pressure: Neuroendocrine Axes in Critical Illness** | *Adjoa Boateng Evans, MD, MPH, Duke University School of Medicine* |
| 5:36 PM | **Critical Care Management of Thyroid Crises** | *Sean M. Pugh, DO, The Ohio State University Wexner Medical Center* |
| 5:49 PM | **Adrenal Crises: A Critical Care Approach to Diagnosis and Management** | *Jamie Brown-Shpigel, Washington University in Saint Louis* |
| 6:02 PM | **Diabetic Comas: DKA, HHS, and SLGT-2 Antagonist-Related** | *Kaarin Michaelsen, MD, University of Vermont* |
| 6:15 PM | **Perioperative Management of Pheochromocytomas and Paragangliomas** | *Michael Wu Chen, MD, Stanford University* |
| 6:28 PM | **The Nuts and Bolts of Critical Care Dermatology?** | *Kelly Ivins-O'Keefe, MD, US Army Institute of Surgical Research Burn Center* |
| 6:43 PM | **Moderated Q&A** | *Course Director: Crystal Adams, MD, BS* |