

*Tuesday November 5th*

## **Lecture Descriptions**

**Dale Hebert**

### ***The Litigation Process***

Medical litigation is often extremely complicated. The medical malpractice litigation system needs improvement. This discussion will address medical litigation process, examples, and how we can protect ourselves.

**Dr. Nasuh Malas**

### ***A Practical Guide for the Evaluation and Management of Agitation and Aggression in Youth***

Pediatric agitation and aggression is both prevalent and challenging in emergency room and inpatient settings. Care requires a thoughtful, proactive approach with multidisciplinary evaluation and etiology-driven management. There is little standardization of pediatric agitation and aggression care, which can result in significant variability in care, inefficiencies in resource allocation and workflow, provider distress, and then potential for negative outcomes. Furthermore, the lack of a consistent and coordinated approach places patients, families, staff and providers at risk for injury. This presentation provides a current literature review of the evaluation and management of pediatric agitation and aggression, as well as a review of the newly developed Pediatric BETA Consensus Guidelines published in the Western Journal of Emergency Medicine 2019.

**Dr. Aditya Padey**

### ***Role of Interventional Surgery in Treating Those with Severe Strokes***

Discuss the signs and symptoms of stroke as well as the meaning of large vessel occlusion related strokes. Including a review of the evidence which supports the use of interventional surgery in treating those with large vessel occlusion. Using case examples to exemplify the procedure. In addition, talk about ruptured brain aneurysms and intracerebral hemorrhage and the role of surgery in improving outcomes in this patient population. The theme at each stage will be to better understand how survival flight and Internationalists can coordinate care to improve overall outcome.

## **Dr. Vic Strecher**

### ***Purpose: How Living for What Matters Most Changes Everything***

In this presentation, Dr. Strecher discusses the role of purpose in life: a central component of intrinsic motivation for behavior change, well-being, and human performance. From ancient philosophy to the most modern neuroscience, Dr. Strecher offers specific and innovative approaches to improving purposeful living.

## **Dr. Gabe Owens**

### ***#1: Predicting the unpredictable in the cardiac ICU: Innovative software and machine learning.***

Intensive care units are data rich environments with information sources that are underutilized by clinicians. Harnessing the power of high fidelity patient-specific data to visualize trends and generate predictive models of decompensation may improve upon current practices of patient care. The Pediatric Cardiac ICU (PCTU) at the University of Michigan has implemented a tool that may very well accomplish these feats.

### ***#2: A Heart in a Box: Revolutionizing organ preservation prior to transplant.***

Mortality on the pediatric heart transplant wait list approaches 20%, mostly secondary to poor availability and utilization of candidate hearts for transplant. Current preservation techniques rely on cold immersion and the organ must be transplanted within 6 hours of being harvested. This cold immersion damages the heart and limits matching of organ to recipient based on geographic relationship. By utilizing ECMO-like technologies, the ECLS laboratory at the University of Michigan is investigating novel techniques to keep hearts alive and functioning for days or weeks in preparation for being matched to a recipient for transplant. If successful, this could change the paradigm of heart transplantation in the future.

## **Brian Uridge**

### ***Workplace Violence-Active Shooter: Prevention, Intervention and Response.***

Workplace violence is one of the largest occupational hazards facing healthcare workers today. According to the U.S. Bureau of Labor Statistics, between 2011 and 2013, just over 70 percent of all workplace assaults occurred in healthcare or social service settings. Violence reduction programs should be focused on developing a system wide approach to understanding the difference between active shooters and targeted violence, Threat Assessment vs Threat Management, staff training, review of pre-incident indicators and identifying those who may be on a pathway to intended violence.

**Dr. Mark Lowell**

***Adult Case Study***

Adult case study and education on Post Cardiac Arrest PE/Hypovolemic Shock will be presented. Present an adult case study to engage the learners in discussion regarding their thoughts on diagnosis. Discuss the official diagnosis of the case study being presented. Education on the diagnosis of a PE will be provided to the learners. Additionally, initial and long-term management of PEs with associated complications will be discussed by the speaker. Learners will have the opportunity for discussion and questions with the speaker during the presentation