

# CRASH 2012 OBJECTIVES

## Saturday – 3 March 2012

12:00–7:00pm

**Simulator in Anesthesia**

\$25.00

Gee Mei Tan, MD, Adrian Hendrickse, MD

Debnath Chatterjee, MD; Greg Myers, MD

***Objectives***

1. To experience being in the "hot seat" of a simulated anesthetic scenario;
2. To help or lead in the management of an anesthetic crisis situation;
3. To appreciate the potential for MOCA testing.

## Sunday – 4 MARCH 2012

9:00 am-4:00pm

**Simulation in Anesthesia**

(45 min blocks)

Gee Mei Tan, MD, Adrian Hendrickse, MD

**4:00-5:00pm Daily Decision-making in the ICU: Is There Anything Beyond the Evidence?**

Rob Sladen, MD

***Objectives:***

1. Understand the rationale behind levels of evidence in daily decision making in the ICU.
2. Appreciate the impact of scoring systems based on clinical observation
3. Analyze a number of classic "evidence based" protocols, including goal-directed therapy and steroids in sepsis, low tidal volume and restrictive fluid strategy in ARDS, and perioperative beta blockade
4. Identify practice misalignment in the design of controlled clinical trials

**5:00-6:00pm Neuro-anesthesia Principles for Non-neurologic Surgery: What You Don't Know Can Hurt You(r Patient)!**

Daniel Janik, MD

***Objectives:*** After this presentation the attendee should:

1. Understand the fundamental principles of cerebral hemodynamics in the context of current science, the myths associated with it, and the factors which affect perfusion, both positive and negative.
2. Be able to identify situations which present special risk to the patient undergoing surgical procedures and anesthesia.
3. Be able to readily formulate a plan of risk abatement during the sitting position for various surgical procedures.
4. Know the incidence of occult cervical spine stenosis and the risk of injury to the spine of various positioning maneuvers encountered during surgery and anesthesia, and the consequences of improper attention to this problem.
5. Be able to formulate a plan to successfully minimize the potential for injury to the cervical spine during anesthesia.
6. Understand the physiology of hypotensive anesthesia and properly assess the risk/benefit ratio of its use in various clinical settings.
7. Know the current recommendations regarding the use of hypotensive anesthesia in surgery.

**6:00-6:30pm Questions and Answers**

Sladen, and Janik

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## Monday – 5 MARCH 2012

### **7:00-8:00am Acute Pain Management Update** Matthew Fiegel, MD

#### **Objectives:**

1. Develop a multimodal and evidenced based approach to treating acute pain in an opioid naïve/opioid intolerant patient
2. Develop a pragmatic approach to treating acute pain in the opioid tolerant patient
3. Utilize non-opioid strategies to optimize patient satisfaction and safety
4. Discuss any new treatment modalities which have been introduced in the past year

### **8:00-9:00am Postoperative Infections: How can we prevent them?** Jeffrey Galinkin, MD

#### **Objectives:**

1. Discuss epidemiology of surgical site infection.
2. Understand traditional utilization of antibiotics to prevent surgical site infections.
3. Describe current SCIP measures and future direction for prevention of surgical site infection

### **9:00-9:30am Questions and Answers** Fiegel and Galinkin

## WORKSHOPS

### **4:00-7:00pm Ultrasound Guided Regional Anesthesia**

*\$50.00* John Armstrong, MD; Alan Bielsky, MD; Chris Ciarallo, MD; Matthew Fiegel, MD;  
Limit 50 Adrian Hendrickse, MD; Christopher Lace, MD; Glenn Merritt, MD;  
Jeffrey Shiffirin, MD

**Objectives:** Experts in regional anesthesia will present commonly performed upper and lower extremity blocks. Hands-on format using phantoms and live models will facilitate learning. Technique tricks of the trade, advantages and risks will be emphasized.  
At the end of the workshop, participants should be able to:

### **4:00-7:00pm Comprehensive Airway Management**

*\$25.00* Geoffrey Lane, MB; Mark Chandler, MD; Jeffrey Galinkin, MD;  
Thomas Henthorn, MD; Dan Janik, MD; Michael Sawyer, MD; Marina Shindell, DO

**Objectives:** This workshop will familiarize participants with the various types of techniques used in the management of the patient with a difficult airway. The care and use of the equipment will be emphasized. The participant will have an opportunity to practice using the different modalities (LMA, Fiberoptic endoscope, retrograde wire, etc.).

At the end of the workshop, participants should be able to:

1. Set up and use the various types of airway equipment available to assist in airway management;
2. Smoothly manipulate the equipment through mannequins;
3. Review the ASA difficult airway algorithm.
4. Rapidly and effectively establish a surgical airway using lamb tracheas.

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## **4:00-7:00pm TEE for the General Anesthesiologist I**

\$15.00

Topics:

Limit 40

1. Basic TEE views

Nathael Weitzel

4:00-4:30pm

2. Doppler Modalities

Nathael Weitzel

4:35-5:05pm

3. Systolic Function

Tamas Seres

5:10-5:40pm

Practice on Echo Machines in two groups:

5:55-6:25pm and 6:30-7:00pm

1st Group: Knobology

Recognizing views

Nathael Weitzel/Greg Wolff

2nd Group: Using Doppler modalities

Tamas Seres/Stevens Quinn

\$20.00 3rd Group **TEE Simulation (6 persons-2/hour)**

**4:00-7:00pm**

### **Objectives:**

Part I will focus on the physics of the transducer, the basic 2D TEE views, and the clinical application of Doppler modalities.

At the end of the review, participants should be able to:

1. Understand the generation of TEE images and views
2. Understand Doppler and color echocardiography concepts
3. Do Doppler measurements to evaluate cardiac function with TEE

## **4:00-7:00pm Dilemmas in OB Anesthesia**

FREE

Joy Hawkins, MD and Brenda Bucklin, MD

No Limit

### **Objectives:**

This round table discussion will focus on several controversies likely to beset obstetric anesthesia providers. Topics discussed will include, but are not limited to, hypertension, obesity, headache, anticoagulation, regional anesthetic complications, and airway management. Nationally recognized experts in the field will lead the discussion.

1. At the end of the workshop, participants should be able to:
2. Discuss common clinical problems in OB anesthesia and develop rationale approaches to improve patient outcome.
3. Review and develop solutions for OB anesthesia practice dilemmas.

## **Tuesday – 6 MARCH 2012**

## **7:00-8:00am Pediatric Anesthesia Update 2012**

Rita Agarwal, MD

### **Objectives:**

New evidence and approaches in the care of young children undergoing anesthesia will be presented in this lecture. At the end of this lecture, participants should be able to:

1. List new techniques for the management of the pediatric patient.
2. Describe the advantages and disadvantages of the practical clinical tips presented.
3. Discuss future developments that are still in the research stages.

## **8:00-9:00am Perioperative Considerations for the Patient with Chronic Kidney Disease**

Robert Sladen, MD

**Objectives:** This talk will discuss the preparation of the patient with chronic kidney disease for common operation.

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The learner will be able to:

1. Interpret serum creatinine as a marker of kidney function
2. Develop a plan for preoperative risk assessment and stratification of the patient with CKD
3. Describe the organ system impact of CKD
4. Develop an approach to perioperative anesthetic management
5. Formulate a plan for postoperative monitoring and intervention

## 9:00-9:30am Questions and Answers

Agarwal and Sladen

## WORKSHOPS

### 4:00-7:00pm Ultrasound Guided Regional Anesthesia

\$50.00

John Armstrong, MD; Alan Bielsky, MD; Chris Ciarallo, MD; Matthew Fiegel, MD; Adrian Hendrickse, MD; Christopher Lace, MD; Glenn Merritt, MD; Jeffrey Shiffrin, MD

**Objectives:** Experts in regional anesthesia will present commonly performed upper and lower extremity blocks. Hands-on format using phantoms and live models will facilitate learning. Technique tricks of the trade, advantages and risks will be emphasized.

At the end of the workshop, participants should be able to:

1. Perform techniques for various peripheral nerve blocks at different locations;
2. Compare the advantages and disadvantages of each approach;
3. Describe Ultrasound use for vascular access
4. Participants will become comfortable with the anatomy and rationale for performing body wall blocks.

### 4:00-7:00pm Comprehensive Airway Management

\$25.00

Geoffrey Lane, MB; Mark Chandler, MD; Jeffrey Galinkin, MD; Daniel Janik, MD; Thomas Henthorn, MD; Michael Sawyer, MD; Marina Shindell, DO

**Objectives:**

This workshop will familiarize participants with the various types of techniques used in the management of the patient with a difficult airway. The care and use of the equipment will be emphasized. The participant will have an opportunity to practice using the different modalities (LMA, Fiberoptic endoscope, retrograde wire, etc.).

At the end of the workshop, participants should be able to:

1. Set up and use the various types of airway equipment available to assist in airway management;
2. Smoothly manipulate the equipment through mannequins; and
3. Review the ASA difficult airway algorithm.
4. Rapidly and effectively establish a surgical airway using lamb tracheas.

### 4:00-7:00pm TEE for the General Anesthesiologist II

\$15.00

Topics:

Limit 40

1. Diastolic Function	Tamas Seres	4:00-4:30pm
2. Evaluation of the mitral valve	Fadi Nasrallah	4:35-5:05pm
3. Evaluation of the aortic valve	Ferenc Puskas	5:10-5:45pm

Practice on Echo Machines in two groups: 5:55-6:25pm and 6:30-7:00pm

1st Group: Mitral valve Fadi Nasrallah

2nd Group: Aortic valve Ferenc Puskas

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## **\$20.00 3rd Group: TEE Simulation (6 persons-2/hour)**

### **Objectives:**

Part 2 will focus on the evaluation of systolic and diastolic function, the normal anatomy of the mitral and aortic valve, and the evaluation of mitral and aortic stenosis and regurgitation.

At the end of the review, participants should be able to:

1. Understand systolic and the different types of diastolic dysfunction
2. Understand the evaluation of mitral valve anatomy and function
3. Understand the evaluation of aortic valve anatomy and function
4. Do basic hemodynamic measurements and calculations on the mitral and aortic valve

## **4:00-7:00pm Clinical Conundrums in Pediatrics**

**FREE** Rita Agarwal, MD, FAAP and Randy Clark, MD

### **Objectives:**

New evidence and approaches in the care of young children undergoing anesthesia will be presented in this lecture. At the end of this lecture, participants should be able to:

1. List new techniques for the management of the pediatric patient;
2. Describe the advantages and disadvantages of the practical clinical tips presented;
3. Discuss future developments that are still in the research stages.

## **Wednesday – 7 MARCH 2012**

## **7:00-8:00am The Rational Approach to the Use of Hemodynamic Agents**

Breandan Sullivan, MD

### **Objectives:**

1. Understand the physiology behind the major vasoactive infusions employed in the OR.
2. Examine case based scenarios to determine a rationale approach to hemodynamic support
3. Understand new hemodynamic therapies and discuss limitations to IV hemodynamic support
4. Understand when to employ invasive / percutaneous support devices

## **8:00-9:00am My Pain is Worse than Your Pain - What Pharmacogenetics is Teaching us About Analgesic and Pain Sensitivity**

Mindy Cohen, MD

### **Objectives:**

1. Be able to discuss the concept of genetic influence on drug metabolism and drug effects.
2. Identify at least three commonly used medications that have variable efficacy/toxicity ratios depending on a patient's genetic makeup.
3. Understand how in the near future analgesics may be tailored to genetic phenotypes.

## **9:00-9:30am Questions and Answers**

Weitzel and Cohen

## **WORKSHOPS**

### **4:00-7:00pm 3D TEE Hands on Course**

**\$15.00** Basic Views and Views for Hemodynamic Evaluation 4:00-7:00pm  
3D TEE:

Limit 40 1. Introduction to 3D TEE volume measurement Seres 4:00-4:25pm  
2. Introduction to 3D TEE valve evaluation Seres 4:30-4:55pm

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Practice on Echo Machines in two groups: 5:00-6:00, 6:05-7:05  
1st Group: Volume measurement with 3D echo Dr. Seres/Dr. Quinn  
2nd Group: Evaluation of the mitral valve with 3D echo Dr. Seres/Dr. Wolff  
Review, Questions, and Answer

\$20.00 **TEE Simulation for the Anesthesiologist** 4:00-7:00pm

**Objectives:** 3D TEE course will focus on the evaluation of ventricular function and the mitral valve

At the end of the review, participants should be able to:

1. Understand the 3D TEE evaluation of LV function.
2. Understand the TEE evaluation of the mitral valve.
3. At the end of the course participants will be able to understand and practice 3D echo and use it for evaluating volumes and valve function.

**4:00-7:00pm PANEL DISCUSSION**

**Federal Regulation and the Future of Anesthesia Practice**

Randall M Clark, MD and Brian Davidson

**Objectives:**

1. Review current CMS regulatory requirements related to anesthesiology practice.
2. Provide a framework for understanding the role of governmental regulation in the healthcare industry and policy arena.
3. Discuss emerging healthcare regulatory issues and trends.
4. Provide basic tools and present concepts for strategic management in times of regulatory uncertainty.

**Anesthesia in the Hinterlands**

**Out of the OR Anesthesia:** Christopher Lace, MD

**Objectives:**

1. Understand the special hazards that exist in out of OR anesthesia
2. Understand the unique logistical challenges that are present in out of OR anesthesia
3. Learn what you can do to make out of OR anesthesia run more efficiently

**Consideration for Cath Lab:** Ferenc Puskas, MD, PhD

**Objectives:**

At the conclusion of the session, the participant will be able to:

1. Be familiar with most common catheterization laboratory procedures and its anesthetic implications
2. Understand the cardiologist's point-of view of patient management
3. Understand how to be prepared and respond to Cath Lab emergencies
4. Discuss how to minimize radiation exposure

**Anesthetic Consideration in the Pediatric Patient:** Deb Faulk, MD

**Objectives:**

Upon completion of this presentation, participants will be able to

1. Recognize the growing demand for pediatric anesthesia services outside the operating room and how we can advocate for patient safety, comfort and efficiency in remote locations.
2. Apply the concept of sedation as a continuum in providing anesthesia services for children outside the operating room.
3. Discuss some of the challenges specific to delivery of anesthesia to children in non-operating room locations.

**6:45-7:00pm Questions and Answers**

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**Thursday – 8 MARCH 2011**

**7:00-8:00am Cardiac Anesthesia Update**

Glenn Gravlee, MD

***Objectives:***

1. Understand recent developments in ventricular assist devices and apply the anesthetic considerations into clinical practice.
2. Update the understanding of the indications for and dosing of recombinant Factor VIIa in cardiac surgery.
3. Understand the advantages and limitations of cerebral oximetry monitoring in cardiac surgery.

**8:00-9:00am Early Detection of Physiological Deterioration**

Steve Moulton, MD

***Objectives:***

1. Recognize the importance of early intervention in reducing morbidity and mortality
2. Understand how the application of computing technology to vital sign data analysis may improve clinical outcomes

**9:00-9:30am Questions and Answers**

Gravlee and Moulton

**4:00:4:50 Perioperative Evaluation of the Patient with Cardiac Disease undergoing Non-cardiac Surgery**

Robert Sladen, MD

***Objectives:***

1. Understand the definition of active cardiac syndromes
2. Learn the revised Cardiac Risk Index relative to estimated energy requirements (METS)
3. Distinguish the role of non-invasive cardiac testing
4. Stratify the cardiac risk of non-cardiac surgery using the ACC/AHA Cardiac Care Algorithm
5. Appreciate the implications of percutaneous coronary intervention (PCI)
6. Critically appraise the evidence for perioperative beta blockade

**4:50-5:40pm Management of Sleep Apnea – Is it Different in the Outpatient Setting?**

Christopher Lace

***Objectives:***

1. Understand the risk factors for developing OSA, why the problem is growing, and what treatments are available
2. Learn management concepts that can be applied to all patients with OSA having surgery
3. Learn which patients with OSA may not be appropriate for surgery in the outpatient setting

**5:40-6:30pm Post Operative Cognitive Dysfunction**

Paul Mongan, MD

***Objectives:*** This session will enable participants to:

1. Discuss the difference between postoperative cognitive dysfunction and postoperative delirium.
2. Examine the historical evidence for postoperative cognitive dysfunction (POCD) and the potential pathophysiologic mechanisms for the development of POCD.
3. Learn techniques that may help minimize the development of POCD.

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**6:30-7:00pm Questions and Answers**  
Sladen, Lace, Mongan

## **Friday – 9 March**

**7:00-8:00am What's New in OB Anesthesia**  
Joy Hawkins, MD

**Objectives:** At the conclusion of this lecture, participants will be able to:

1. Discuss new developments in obstetric anesthesia in the areas of guidelines and policies, labor analgesia, cesarean anesthesia, and care of the fetus and newborn.
2. Recognize and develop new management strategies for anesthetic and obstetric complications in the peripartum period.

**8:00-9:00am Perioperative Management of the Patient with Asthma and Bronchospasm**  
Robert Sladen, MD

### **Objectives**

1. Understanding the pathogenesis of bronchospasm and asthma
2. Appreciate the cardiopulmonary changes in acute asthma
3. Review acute and chronic pharmacologic therapy for asthma and bronchospasm
4. Formulate a perioperative anesthetic plan for the patient with asthma and develop an algorithm for the management of acute intraoperative bronchospasm

**9:00-9:30am Questions and Answers**  
Hawkins and Sladen