

Department of Anesthesiology & Perioperative Care

# Grand Rounds

## Postoperative acute kidney injury: Can we do anything about it?

**Madhav Swaminathan, MD**

Associate Professor  
Clinical Director, Division of Cardiothoracic  
Anesthesia and Critical Care Medicine  
Department of Anesthesiology,  
Anesthesiology—Cardiac Division  
Duke University Medical Center



**Madhav Swaminathan, MD**

Associate Professor  
Department of Anesthesiology

**Thursday, Dec. 12, 2013**

**6:30 to 7:30 a.m.**

UC Irvine Medical Center  
Building 22A, Room 2107

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Madhav Swaminathan, MD is the Associate Professor and Clinical Director of the Division of Cardiothoracic Anesthesia and Critical Care Medicine at Duke University School of Medicine. Dr. Swaminathan's main area of clinical practice is in the division of cardiothoracic anesthesiology and critical care medicine. He is involved in the care of adult patients undergoing cardiac and thoracic surgery, including all thoracic transplants. He also has regular responsibilities as the principal intensivist in the Adult Cardiothoracic Unit, which is the postoperative critical care unit for cardiothoracic surgery. In addition to Dr. Swaminathan's clinical responsibilities, he is also leading the clinical operations of the cardiothoracic anesthesia division and teaching residents and fellows in all clinical work areas.

Dr. Swaminathan's present research goal is to elucidate mechanisms of and risk factors for perioperative acute kidney injury in patients undergoing heart surgery with emphasis the role of early recovery of kidney function. A special area of interest is the phenomenon of left ventricular diastolic dysfunction. Dr. Swaminathan and his research team have successfully developed an algorithm to help simplify the detection of diastolic dysfunction using echocardiography during heart surgery. A future goal is to explore interventions that help prevent or reduce the severity of diastolic dysfunction postoperatively. He is also keenly involved in transesophageal echocardiography in thoracic endovascular surgery.

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**Statement of Purpose:** These grand rounds are being held to keep UC Irvine Health and community physicians and health care professionals updated on the latest treatment modalities and research in anesthesia and analgesia.

**Global Objectives:** 1) Evaluate diagnosis and management of common diseases seen in the specialties of anesthesiology, pain management and critical care. 2) Determine the pathophysiology of common and rare disease seen in the specialties of anesthesiology, pain management, and critical care. 3) Analyze management issues in patients with difficult airway. 4) Review of policies and procedures to better care for patients before, during, and after care.

**Target Audience:** The target audience for the Department of Anesthesiology & Perioperative Care Grand Rounds is attending physicians, fellows, community physicians and other health care professionals.

**Accreditation Statement:** The UC Irvine Health School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

**Credit Designation Statement:** The UC Irvine Health School of Medicine designates this educational activity for a maximum of 1.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should

only claim credit commensurate with the extent of their participation in the activity.

**Disclosure Lecturer:** Dr. Swaminathan has declared that he does not have a financial interest or other relationship with any manufacturer(s) of any commercial product or apparent conflict of interest related to the content of his presentation. Dr. Swaminathan discloses that he will not be discussing the use of any unlabeled/unapproved drugs or devices.

**Disclosure: Course Director/Planners** Trung Vu, MD; and Phuong (Chloe) Tran have disclosed that they have no affiliations, arrangements or financial agreements that could be perceived as a potential conflict of interest. The Office of CME staff have disclosed that they have no affiliations, arrangements or financial agreements that could be perceived as a potential conflict of interest.

In compliance with the Americans with Disabilities Act, if you have any special needs, please contact Phuong (Chloe) Tran at 714-456-8744, three days prior to the meeting. This activity is in compliance with California Assembly Bill 1195 which requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency. For specific information regarding Bill 1195 and definitions of cultural and linguistic competency, please visit the CME website at [www.meded.uci.edu/CME](http://www.meded.uci.edu/CME).