

MARCH
25 – 26
2023

Stanford Advanced Airway Management Course

Li Ka Shing Center for Learning and Knowledge, Stanford, CA



A Continuing Medical Education Conference
Presented by Stanford University
Department of Anesthesiology,
Perioperative and Pain Medicine



Stanford | MEDICINE

SPONSORED BY THE STANFORD UNIVERSITY SCHOOL OF MEDICINE



ANNUAL STANFORD ADVANCED AIRWAY MANAGEMENT COURSE

This comprehensive, multidisciplinary, state-of-the-art course offers airway training to a national and international audience. It provides participants with the essential evidence-based knowledge and technical skills to manage anticipated and unanticipated difficult airway in the operating room, emergency department, and intensive care unit as well as in diverse clinical settings. The conference integrates various educational formats, including extensive hands-on practice at the stations, didactic lectures, immersive simulation workshops, Lunch and Learn sessions, and expert panel discussions. The course is ideally suited for the anesthesiologists, critical care, emergency medicine, and ENT physicians.

LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

1. Integrate into practice effective approaches and strategies for predicting and managing difficult airway, per latest evidence-based medicine data.
2. Apply advanced oxygenation techniques, such as Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE).
3. Develop skills for alternative ventilation and oxygenation strategies using supraglottic airway (SGA) devices, flexible scope-assisted SGA-endotracheal tube exchange, and emergency front of neck access (eFONA).
4. Enhance crisis resources management (CRM) skills.
5. Determine proper patient selection and preparation for awake flexible scope intubation (FSI).

TARGET AUDIENCE

This is an international conference designed to meet the educational needs of physicians specializing in anesthesia, critical care, emergency medicine, head neck surgery, otolaryngology, and pediatrics, as well as Certified Registered Nurse Anesthetists (CRNA) and Emergency Medical Technicians (EMT).



COURSE HIGHLIGHTS

- Over 30 evidence-based lectures, reviews, and case discussions
- 12 difficult airway stations
- Integrated, 6 station flexible scope intubation course, including preoperative endoscopic airway examination (PEAE)
- Immersive, high fidelity simulation
- Small learning groups with 3 : 1 participant-to-instructor ratio
- Ample time for each participant to practice and acquire new skills
- Case-based discussion and Q & A by a panel of experts

Become a Stanford H&N Anesthesia and Advanced Airway Management Program (SAAMP) insider and benefit from over 25 years of SAAMP's national and international teaching experience. Learn from the experts who teach advanced airway management daily!

SKILLS STATIONS INCLUDE

- Introducers
- Video laryngoscopes
- Light-guided intubation
- Supraglottic airways
- Intubating LMA
- Flexible scope assisted airway exchange techniques
- Video stylets
- Combined video intubation techniques
- Flexible scope evaluation of the lower airway, and lung separation techniques
- Retrograde intubation
- Percutaneous and surgical emergency front of neck access (eFONA)
- Ultrasound-guided access to cricothyroid membrane
- Emergency supraglottic airway ventilation
- Advanced oxygenation techniques (THRIVE)
- Airway exchange catheters and staged extubation
- Pediatric difficult airway
- Difficult airway simulation scenarios

Faculty *(all faculty are Stanford-affiliated, unless listed otherwise)*

Course Director

Vladimir Nekhendzy, MD

Clinical Professor of Anesthesiology
and, by courtesy, Otolaryngology/Head
and Neck Surgery
Director, Stanford Advanced Airway
Management Program
Past President, Society for Head and
Neck Anesthesia

Course Co-Directors

Edward Damrose, MD

Professor of Otolaryngology/Head and
Neck Surgery, and, by courtesy,
Anesthesiology
Chief, Division of Laryngology &
Laryngeal Surgery

Amit Saxena, MD

Clinical Assistant Professor of Anesthesiology

Guest Faculty

Imran Ahmad, MD, FRCA

Consultant Anaesthetist and Clinical
Lead for Airway Management
Deputy Clinical Director for Theatres,
Anaesthesia & Perioperative Medicine
(TAP)
Guy's & St Thomas' NHS Foundation
Trust, London, UK
Honorary Senior Lecturer, King's College
London, UK
President, Difficult Airway Society, UK

Narasimhan ('Sim') Jagannathan, MD

Anesthesiologist-in-Chief
Phoenix Children's Hospital
Professor of Anesthesiology
University of Arizona School of Medicine,
Phoenix, AZ



Brita Mittal, MD

Associate Professor
Department of Anesthesiology
University of Texas Medical Branch,
Galveston, TX

Tracey Straker, MD, MS, MPH, CBA, FASA

Professor of Anesthesiology
Director of Advanced Airway Fellowship
and Rotation
Montefiore Medical Center, Bronx, NY

Stanford Faculty

Naola Austin, MD

Clinical Assistant Professor of Anesthesiology

Carlos Brun, MD

Clinical Associate Professor of Anesthesiology
Staff Anesthesiologist and Intensivist
Veteran's Affairs Palo Alto Health Care System

Alexander Butwick, MD

Professor of Anesthesiology

Daenis Camire, MD

Clinical Instructor of Anesthesiology
Fellow, Stanford Advanced Airway
Management Program

Michael Chen, MD

Clinical Associate Professor of
Anesthesiology and, by courtesy,
Neurosurgery

Lynn Cintron, MD

Affiliate, Department of Anesthesia
Santa Clara Valley Medical Center

Marc Gautreau, MD

Clinical Professor,
Emergency Department

Kyle Harrison, MD

Clinical Professor of Anesthesiology
Veteran's Affairs Palo Alto Health
Care System

Cynthia Khoo, MD, PhD

Clinical Assistant Professor of
Anesthesiology

Laura May, MD

Clinical Assistant Professor of
Anesthesiology

James McAvoy, MD

Staff Anesthesiologist and Intensivist
Santa Clara Valley Medical Center



Faculty Continued

Fred Mihm, MD

Professor of Anesthesiology
Co-Director, Intensive Care Units

Bill Mulkerin, MD

Clinical Associate Professor,
Emergency Department

Greg Muller, MD

Fellow, Emergency Medicine

Andrea Murray, MD

Clinical Assistant Professor of
Anesthesiology

Anil Panigrahi, MD, PhD

Clinical Associate Professor of
Anesthesiology and, by courtesy,
Pathology

Rett Quattlebaum, MD

Clinical Assistant Professor of
Anesthesiology

Radhamangalam 'RJ' Ramamurthi, MD

Clinical Professor of Anesthesiology

Todsaporn ('Bob') Rodbumrung, MD

Clinical Instructor of Anesthesiology

Teresa Roman-Micek, BS, CHSOS

Lead Simulationist
Stanford Center for Immersive and
Simulation-Based Learning (CISL)

Lena Scotto, MD

Clinical Assistant Professor of
Anesthesiology
Staff Anesthesiologist and Intensivist
Veteran's Affairs Palo Alto Health Care
System

Jewel Sheehan, MD

Clinical Assistant Professor of
Anesthesiology

Katie Speirs, MD

Clinical Instructor of Anesthesiology

Dawn Springer, MD

Clinical Instructor of Anesthesiology
Fellow, Stanford Advanced Airway
Management Program

Emily Stockert, MD

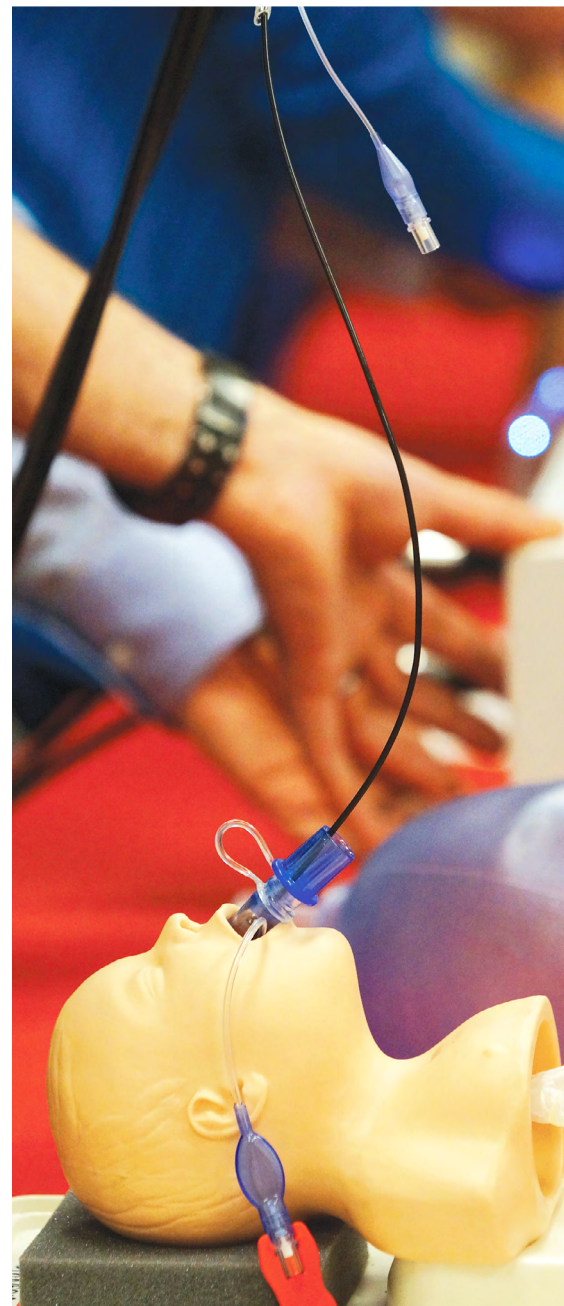
Clinical Assistant Professor of
Anesthesiology

Victoria Yin, MD

Clinical Assistant Professor of
Anesthesiology

FACULTY DISCLOSURE

The Stanford University School of Medicine adheres to ACCME Criteria, Standards, and Policies regarding industry support of continuing medical education. Disclosure of faculty and commercial relationships will be made prior to the activity.



Please register early- space is limited!

Program

Each participant will attend the flexible scope intubation course and 12 difficult airway stations. Each participant will also attend one mini-review and one case-based discussion during the Lunch & Learn Sessions.

Saturday, March 25, 2023

- 7:00-7:50 am **Registration and Continental Breakfast**
- 7:50-8:00 am **Welcome and Announcements**
Vladimir Nekhendzy, MD
- 8:00-8:20 am **ASA Difficult Airway Algorithm: Best Practice Strategies for Success**
Vladimir Nekhendzy, MD
- 8:20-8:35 am **Video Laryngoscopy in Difficult Airway Management**
Katie Speirs, MD
- 8:35-8:50 am **Advanced Oxygenation Techniques**
Bob Rodbunrung, MD
- 8:50-9:10 am **Pediatric Difficult Airway**
Sim Jagannathan, MD
- 9:10-9:30 am **Extubation of the Difficult Airway**
Tracey Straker, MD
- 9:30-9:45 am **Break and transition to hands-on**
- 9:45-12:45 pm **Hands-On: Difficult Airway Workshop and Flexible Scope Intubation Course**
Breakdown of stations below
- 12:45 – 12:55 **Transition to lunchroom**

12:55-1:55 pm **Lunch & Learn (12 Mini Reviews)**

Please choose one:

- 1 Difficult Airway in Obstetrics**
Naola Austin, MD, Alexander Butwick, MD & Andrea Murray, MD
- 2 ENT Airway Tools: Operating Laryngoscopes, Rigid Bronchoscope, Tracheostomy Tubes**
Edward Damrose, MD & Dawn Springer, MD
- 3 Pediatric Video Laryngoscopy**
RJ Ramamurthi, MD, Jewel Sheehan, MD & Michael Chen, MD
- 4 Difficult Airway and Obstructive Sleep Apnea**
Vladimir Nekhendzy, MD & Anil Panigrahi, MD, PhD
- 5 Lung Isolation in a Patient with the Difficult Airway**
Rett Quattlebaum, MD, Laura May, MD & Cynthia Khoo, MD, PhD
- 6 Supraglottic Airways in Difficult Airway Management**
Bob Rodbunrung, MD, Brita Mittal, MD, Sim Jagannathan, MD
- 7 Pharmacology for Airway Management in Critically Ill #1**
Carlos Brun, MD, Lynn Cintron, MD & Greg Muller, MD
- 8 Rapid Sequence Induction: Full Stomach and Cricoid Pressure Controversy**
Bill Mulkerin, MD, Imran Ahmad, MD & James O'Carroll, MD
- 9 Adult Video Laryngoscopy**
Daenis Camire, MD & Amit Saxena, MD
- 10 Pharmacology for Airway Management in Critically Ill #2**
Fred Mihm, MD, Marc Gautreau, MD & Victoria Yin, MD
- 11 Airway Management Outside of the Operating Room**
Lena Scotto, MD, Kyle Harrison, MD & Emily Stockert, MD
- 12 Difficult Airway and Obesity**
Katie Speirs, MD, Tracey Straker, MD & James McAvoy, MD

1:55-2:10 pm **Supraglottic Airways in Difficult Airway Management**
Brita Mittal, MD

2:10-2:40 pm **Critical Decision-Making in ASA Difficult Airway Algorithm: Evidence-Based Approach**
Vladimir Nekhendzy, MD

2:40-2:55 pm **Break and transition to hands-on**

2:55-5:55 pm **Hands-On: Difficult Airway Workshop and Flexible Scope Intubation Course**
Breakdown of stations below

5:55-6:00 pm **Adjourn**



Please register early – space is limited!

Program Continued

Each participant will attend the flexible scope intubation course and 12 difficult airway stations. Each participant will also attend one mini-review and one case-based discussion during the Lunch & Learn Sessions.

Sunday, March 26, 2023

7:00-7:50 am **Registration and Continental Breakfast**

7:50-8:00 am **Review of Day 1**
Vladimir Nekhendzy, MD

8:00-8:20 am **Critical Care Physician's Perspective on Difficult Airway Management**
Carlos Brun, MD

8:20-8:35 am **COVID-19 Pandemic and Healthcare Workers: Airway Management and Beyond**
Imran Ahmad, MD

8:35-8:55 am **Emergency Room Physician's Perspective on Difficult Airway Management**
Bill Mulkerin, MD

8:55-9:15 am **ENT Surgeon's Perspective on Difficult Airway Management**
Edward Damrose, MD

9:15-9:35 pm **Human Factors in Difficult Airway Management**
Naola Austin, MD

9:35-9:45 am **Break and transition to hands-on**

9:45-12:45 pm **Hands-On: Difficult Airway Workshop and Flexible Scope Intubation Course**
Breakdown of stations below

12:45 – 12:55 **Transition to lunchroom**

12:55-1:55 pm **Lunch & Learn (12 Case-Based Discussions)**

Please choose one:

- 1 Difficult Airway in the Emergency Department**
Marc Gautreau, MD, Greg Muller, MD & Naola Austin, MD
- 2 Pediatric Difficult Airway: Airway Management of Foreign Bodies in Children**
Jewel Sheehan, MD, Andrea Murray, MD & Michael Chen, MD
- 3 Difficult Airway in Critical Care #1**
Carlos Brun, MD & Lena Scotto, MD
- 4 Difficult Airway in Head and Neck Surgery #1**
Vladimir Nekhendzy, MD & Edward Damrose, MD
- 5 Preoperative Endoscopic Airway Examination (PEAE)**
Brita Mittal, MD, Emily Stockert, MD & Bob Rodbumrung, MD
- 6 Unanticipated Difficult Airway: Failed Direct and Video Laryngoscopy**
Daenis Camire, MD, Kyle Harrison, MD & Victoria Yin, MD
- 7 Anticipated Difficult Airway: Unstable C-Spine**
Katie Speirs, MD, Rett Quattlebaum, MD & Lynn Cintron, MD
- 8 Anticipated Difficult Airway: Morbidly Obese Patient**
Tracey Straker, MD, James O'Carroll, MD & Cynthia Khoo, MD, PhD
- 9 Anticipated Difficult Airway: Craniofacial Abnormalities**
RJ Ramamurthi, MD, Sim Jagannathan, MD & Laura May, MD
- 10 Anticipated Difficult Airway: Difficult Flexible Scope Intubation**
Dawn Springer, MD, Imran Ahmad, MD & James McAvoy, MD
- 11 Difficult Airway in Head and Neck Surgery #2**
Amit Saxena, MD & Anil Panigrahi, MD, PhD
- 12 Difficult Airway in Critical Care #2**
Fred Mihm, MD & Bill Mulkerin, MD

1:55-2:05 pm **Break**

2:05-3:05 pm **Case Presentations & Discussion; Q&As: Expert Panel**
Vladimir Nekhendzy, MD (moderator),
Imran Ahmad, MD, Carlos Brun, MD,
Edward Damrose, MD, Marc Gautreau, MD,
Sim Jagannathan, MD, Brita Mittal, MD,
Amit Saxena, MD, Tracey Straker, MD

3:05-3:15 pm **Break**

3:15-4:15 pm **Case Presentations & Discussion; Q&As: Expert Panel**
Vladimir Nekhendzy, MD (moderator),
Imran Ahmad, MD, Carlos Brun, MD,
Edward Damrose, MD, Marc Gautreau, MD,
Sim Jagannathan, MD, Brita Mittal, MD,
Amit Saxena, MD, Tracey Straker, MD

4:15-4:25 pm **Concluding Remarks**

4:25-4:30 pm **Adjourn**



Please register early – space is limited!

Program Continued

DESCRIPTION OF HANDS-ON FOR ADVANCED AIRWAY COURSE

Stand-alone, Flexible Intubation Course

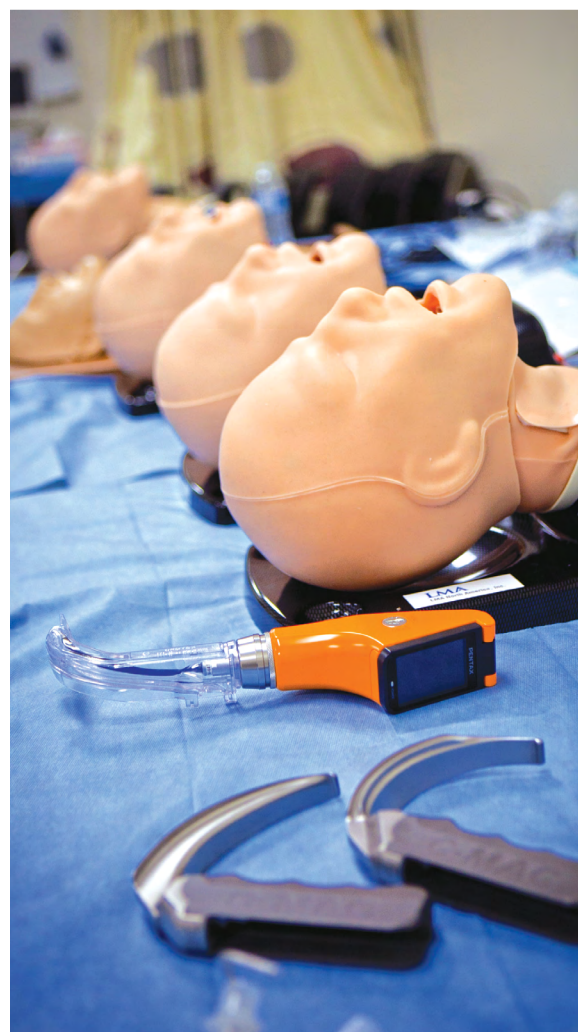
5 lectures and 6 hands-on stations. Course lead: Dr. Amit Saxena.

- | | | | |
|--------|---|--------|---|
| 15 min | Fundamental Technical Skills Required for Successful Flexible Scope Intubation
Dr. Dawn Springer | 20 min | Hands-On: Oral and Nasal Flexible Scope Intubation
Drs. Amit Saxena, Imran Ahmad, Fred Mihm, Brita Mittal, Dawn Springer, Victoria Yin |
| 30 min | Hands-On: Flexible Scope Teaching Models
Drs. Amit Saxena, Imran Ahmad, Fred Mihm, Brita Mittal, Dawn Springer, Victoria Yin | 20 min | Difficult Flexible Scope Intubation: Causes and Solutions to the Problems. Advanced Flexible Scope Intubation Techniques.
Dr. Brita Mittal |
| 20 min | Preoperative Endoscopic Airway Examination (PEAE) and PEAE Demo
Dr. Amit Saxena | 40 min | Hands-On: Supraglottic Airway - ETT Exchange, Combined Video Endoscopy Intubation Technique
Drs. Amit Saxena, Imran Ahmad, Fred Mihm, Brita Mittal, Dawn Springer, Victoria Yin |
| 15 min | Patient Selection, Indications and Contraindications to the Flexible Scope Intubation. Essential Attributes for Success.
Dr. Victoria Yin | 20 min | Awake Flexible Scope Intubation: State-of-the-Art
Dr. Imran Ahmad |

Advanced Airway Management Course Stations

12 difficult airway skills stations arranged in 2 blocks, 6 stations each

- | | |
|--|---|
| 1 Video Laryngoscopy
Drs. Katie Speirs, James O'Carroll | 7 Emergency Airway & Surgical Cricothyroidotomy
Edward Damrose, Marc Gautreau, Bill Mulkerin, Greg Muller |
| 2 Video Stylets/Light Wands
Dr. Anil Panigrahi | 8 Airway Ultrasound
Dr. Lynn Citron |
| 3 Lung Separation Techniques
Drs. Rett Quattlebaum, Laura May, Cynthia Khoo | 9 Extubation of the Difficult Airway & Airway Exchange Catheters
Drs. Tracey Straker, Lena Scotto |
| 4 Supraglottic Airways
Drs. Alexander Butwick, Bob Rodbumrung | 10 Retrograde Intubation
Drs. James McAvoy, Bill Mulkerin |
| 5 Intubating LMA
Drs. Daenis Camire, Emily Stockert | 11 Advanced Oxygenation Techniques (THRIVE)
Dr. Vladimir Nekhendzy |
| 6 Pediatric Airway
Drs. RJ Ramamurthi, Jewel Sheehan, Andrea Murray, Sim Jagannathan, Michael Chen | 12 Simulation
Drs. Carlos Brun, Naola Austin, Kyle Harrison, and Teresa Roman-Micek, CHSOS |



ACCREDITATION

In support of improving patient care, Stanford Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

CREDIT DESIGNATION

Stanford University School of Medicine designates this live activity for a maximum of **17.50 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements; as long as the course is certified for **AMA PRA Category 1 credits™** (rn.ca.gov). Nurses will receive a Certificate of Attendance following this activity that may be used for license renewal.



Register online at stanford.cloud-cme.com/advancedairway2023

Registration

STANFORD ADVANCED AIRWAY MANAGEMENT COURSE – MARCH 25-26, 2023

Please register and pay online by credit card at stanford.cloud-cme.com/advancedairway2023

PLEASE REGISTER EARLY – SPACE IS LIMITED. Registration fee course materials, certificate of participation, and daily breakfast and lunch. Tuition may be paid by check, Visa, or MasterCard.

REGISTRATION FEES

Early Bird Discount

Physicians/CRNAs \$1,195
Non-SHC Residents/Fellows \$900

Regular After 2/26/23

Physicians/CRNAs \$1,295
Non-SHC Residents/Fellows \$900

Special Rates

Returning Learners: \$800
International Groups (5 or more): \$800

Please contact the Stanford CME office if you qualify to register for a special rate.

If you prefer to pay by check, please contact the Stanford Center for CME at (650) 497-8554 for assistance.

Please note: Your registration is not confirmed until payment is received.

CANCELLATION POLICY

Cancellations received in writing no less than 20 days before the course will be refunded, less a 20% administrative fee. No refunds will be made on cancellations received after that date. Please send cancellation requests to stanfordcme@stanford.edu.

Stanford University School of Medicine reserves the right to cancel or postpone this program if necessary; in the event of cancellation, course fees will be fully refunded. We are not responsible for other costs incurred such as non-refundable airline tickets or hotel penalties.

ACCOMMODATIONS

For lodging near the Stanford campus, please view our lodging guide at: <https://visit.stanford.edu/basics/lodging.html>



CONFERENCE LOCATION

Li Ka Shing Center for Learning and Knowledge

2nd Floor Conference Center
291 Campus Drive, Stanford, CA 94305
conferencecenter.stanford.edu

Stanford Center for Continuing Medical Education

1520 Page Mill Road, Palo Alto, CA 94304
Phone: (650) 497-8554 • Email: stanfordcme@stanford.edu
Web: cme.stanford.edu

For questions about the symposium, please contact **Melissa Schwartz**, Events Project Manager, Stanford Center for Continuing Medical Education at email: melissa.schwartz@stanford.edu



Stanford University School of Medicine is committed to ensuring that its programs, services, goods and facilities are accessible to individuals with disabilities as specified under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Amendments Act of 2008.

If you have needs that require special accommodations, including dietary concerns, please contact the CME Conference Coordinator.



Please register early – space is limited!

What Past Participants Said



"I found the course extremely helpful, and will recommend it to all my anesthesia and head and neck surgical colleagues."

"Professors welcomed questions and discussions, and the "Lunch and Learn" sessions provided additional access to the experts."

"Terrific! Enjoyed very much and learned a lot of practical information."

"It was a great combination of "worst nightmare scenario ever" followed by "best advice ever". I was out of my comfort zone and learned a lot."

"Staff very welcoming and helpful. Organization of stations better than any others I have attended, including many Harvard events."



"Very high quality educators, who were enthusiastic and committed to making this a first class learning experience."

"One of the most useful hands-on courses I have attended. Very much appreciated!"

"Very informative and comprehensive course, with outstanding lectures and workshops."



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