MARCH 26 – 27
2022

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

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).

Please register early – space is limited!
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
Elizabeth Behringer, MD
Cardiac Surgical Intensivist-Anesthesiologist
Division of Cardiovascular Surgery
Kaiser Permanente, Los Angeles, CA
Past President, Society for Airway Management
Executive Director, World Alliance for Airway Management

Davide Cattano, MD, PhD
Professor, Department of Anesthesiology
Anesthesia Service Chief for Head and Neck Surgery
McGovern Medical School, UTHealth Houston, TX

Jeremy Collins, MD
Associate Professor of Anesthesiology
Executive Vice Chair Department of Anesthesiology
Emory University School of Medicine
Atlanta, GA

Irene Osborn, MD
Professor of Anesthesiology
Chief, Division of Neuroanesthesia
Albert Einstein College of Medicine
New York, NY

Stanford Faculty
Naola Austin, MD
Clinical Assistant Professor of Anesthesiology

Jennifer Basarab-Tung, 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

Michael Chen, MD
Clinical Associate Professor of Anesthesiology and, by courtesy, Neurosurgery

Lynn Cintron, MD
Affiliate, Department of Anesthesia
Santa Clara Valley Medical Center

David Drover, MD
Professor of Anesthesiology

Marc Gautreau, MD
Clinical Professor, Emergency Department

Sara Goldhaber-Fiebert, MD
Clinical Professor of Anesthesiology

Kyle Harrison, MD
Clinical Professor of Anesthesiology
Veteran’s Affairs Palo Alto Health Care System

Richard Jaffe, MD, PhD
Professor of Anesthesiology and, by courtesy, Neurosurgery

Amit Joseph, MD
Clinical Assistant Professor of Anesthesiology

Vivek Kulkarni, MD, PhD
Clinical Associate Professor of Anesthesiology

James McAvoy, MD
Staff Anesthesiologist and Intensivist
Santa Clara Valley Medical Center

Register online at stanford.cloud-cme.com/advancedairway2022
Faculty Continued

Fred Mihm, MD  
Professor of Anesthesiology  
Co-Director, Intensive Care Units

Brita Mittal, MD  
Clinical Assistant Professor of Anesthesiology

Bill Mulkerin, MD  
Clinical Assistant Professor, Emergency Department

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

Jerome Rogich, MD  
Fellow, Emergency Department

Teresa Roman-Micek, 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 Instructor of Anesthesiology

Karen Sheehan, MD  
Clinical Instructor of Anesthesiology  
Fellow, Stanford Head and Neck Anesthesia and Advanced Airway Management Program

Olga Wolke, MD  
Clinical Assistant Professor of Anesthesiology

Victoria Yin, MD  
Clinical Assistant Professor of Anesthesiology

Please register early- space is limited!
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 26, 2022**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00-7:50 am</td>
<td>Registration and Continental Breakfast</td>
</tr>
<tr>
<td>7:50-8:00 am</td>
<td>Welcome and Announcements</td>
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<tr>
<td>Vladimír Nekhendzy, MD</td>
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<tr>
<td>8:00-8:20 am</td>
<td>ASA Difficult Airway Algorithm: Best Practice Strategies for Success</td>
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<td>Vladimír Nekhendzy, MD</td>
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<tr>
<td>8:20-8:35 am</td>
<td>Video Laryngoscopy in Difficult Airway Management</td>
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<td>Karen Sheehan, MD</td>
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<tr>
<td>8:35-8:50 am</td>
<td>Advanced Oxygenation Techniques</td>
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<tr>
<td>Vladimír Nekhendzy, MD</td>
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<tr>
<td>8:50-9:10 am</td>
<td>Pediatric Difficult Airway</td>
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<tr>
<td>RJ Ramamurthi, MD</td>
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<tr>
<td>9:10-9:30 am</td>
<td>Extubation of the Difficult Airway</td>
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<tr>
<td>Elizabeth Behringer, MD</td>
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<tr>
<td>9:30-9:45 am</td>
<td>Break and transition to hands-on</td>
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<tr>
<td>9:45-12:45 pm</td>
<td>Hands-On: Difficult Airway Workshop and Flexible Scope Intubation Course</td>
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<tr>
<td>Breakdown of stations below</td>
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<tr>
<td>12:45 – 12:55</td>
<td>Transition to lunchroom</td>
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<tr>
<td>12:55-1:55 pm</td>
<td>Lunch &amp; Learn (12 Mini Reviews)</td>
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<tr>
<td>Please choose one:</td>
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<tr>
<td>1 Difficult Airway in Obstetrics</td>
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<tr>
<td>Naola Austin, MD, Alexander Butwick, MD &amp; Andrea Murray, MD</td>
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<tr>
<td>2 ENT Airway Tools: Operating Laryngoscopes, Rigid Bronchoscope, Tracheostomy Tubes</td>
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<td>Edward Damrose, MD &amp; David Drover, MD</td>
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<tr>
<td>3 Pediatric Video Laryngoscopy</td>
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<td>RJ Ramamurthi, MD, Olga Wolke, MD &amp; Michael Chen, MD</td>
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<tr>
<td>4 Difficult Airway and Obstructive Sleep Apnea</td>
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<td>Vladimír Nekhendzy, MD &amp; Anil Panigrahi, MD, PhD</td>
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<tr>
<td>5 Lung Isolation in a Patient with the Difficult Airway</td>
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<td>Jennifer Basarab-Tung, MD, Vivek Kulkarni, MD, PhD &amp; Rett Quattlebaum, MD</td>
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<tr>
<td>6 Supraglottic Airways in Difficult Airway Management</td>
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<tr>
<td>Brita Mittal, MD, Amit Joseph, MD &amp; Irene Osborn, MD</td>
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<td>7 Pharmacology for Airway Management in Critically Ill</td>
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<tr>
<td>Carlos Brun, MD, Fred Mihm, MD &amp; Jerome Rogich, MD</td>
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<td>8 Prehospital Airway Management: Implications for Anesthesiologist</td>
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<td>Amit Saxena, MD, Victoria Yin, MD &amp; Marc Gautreau, MD</td>
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<tr>
<td>9 Rapid Sequence Induction: Full Stomach and Cricoid Pressure Controversy</td>
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<tr>
<td>Bill Mulkerin, MD, Lynn Cintron, MD &amp; Richard Jaffe, MD, PhD</td>
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<tr>
<td>10 Adult Video Laryngoscopy</td>
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<tr>
<td>Karen Sheehan, MD &amp; Jeremy Collins, MD</td>
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<tr>
<td>11 Airway Management Outside of the Operating Room</td>
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<tr>
<td>Lena Scotto, MD, Kyle Harrison, MD &amp; Elizabeth Behringer, MD</td>
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<tr>
<td>12 Difficult Airway and Obesity</td>
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<tr>
<td>Jewel Sheehan, MD, James McAvoy, MD &amp; Davide Cattano, MD, PhD</td>
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<tr>
<td>1:55-2:10 pm</td>
<td>Supraglottic Airways in Difficult Airway Management</td>
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<tr>
<td>Brita Mittal, MD</td>
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<tr>
<td>2:10-2:40 pm</td>
<td>Critical Decision-Making in ASA Difficult Airway Algorithm: Evidence-Based Approach</td>
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<tr>
<td>Vladimír Nekhendzy, MD</td>
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<tr>
<td>2:40-2:55 pm</td>
<td>Break and transition to hands-on</td>
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<tr>
<td>2:55-5:55 pm</td>
<td>Hands-On: Difficult Airway Workshop and Flexible Scope Intubation Course</td>
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<tr>
<td>Breakdown of stations below</td>
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<tr>
<td>5:55-6:00 pm</td>
<td>Adjourn</td>
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</table>

Please register early – space is limited!
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 27, 2022**

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

8:20-8:40 am  **Emergency Department Physician’s Perspective on Difficult Airway Management**
Marc Gautreau, MD

8:40-8:55 am  **Airway Management of COVID-19 patient**
Irene Osborn, MD

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

9:15-9:35 am  **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**

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, Jerome Rogich, MD & Naola Austin, MD

2. **Pediatric Difficult Airway: Airway Management of Foreign Bodies in Children**
   - Olga Wolke, MD, 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 Critical Care #2**
   - Fred Mihm, MD, Jennifer Basarab-Tung, MD & Elizabeth Behringer, MD

5. **Difficult Airway in Head and Neck Surgery #1**
   - Vladimir Nekhendzy, MD & Edward Damrose, MD

6. **Difficult Airway in Head and Neck Surgery #2**
   - Amit Saxena, MD, Anil Panigrahi, MD, PhD & Kyle Harrison, MD

7. **Unanticipated Difficult Airway: Failed Direct and Video Laryngoscopy**
   - Jeremy Collins, MD, Victoria Yin, MD & Bill Mulkerin, MD

8. **Expected Difficult Airway: Unstable C-Spine**
   - Irene Osborn, MD, Richard Jaffe, MD, PhD & Rett Quattlebaum, MD

9. **Expected Difficult Airway: Morbidly Obese Patient**
   - Karen Sheehan, MD, Amit Joseph, MD & Vivek Kulkarni, MD, PhD

10. **Expected Difficult Airway: Retrognathia**
    - RJ Ramamurthi, MD, Sara Goldhaber-Fiebert, MD & Davide Cattano, MD, PhD

11. **Expected Difficult Airway: Difficult Flexible Scope Intubation**
    - David Drover, MD & James McAvoy, MD

12. **Preoperative Endoscopic Airway Examination (PEAE)**
    - Brita Mittal, MD, Alexander Butwick, MD & Lynn Cintron, MD

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

2:05-3:05 pm  **Case Presentations & Discussion; Q&As: Expert Panel**
   - Vladimir Nekhendzy, MD (moderator), Elizabeth Behringer, MD, Carlos Brun, MD, Davide Cattano, MD, PhD, Jeremy Collins, MD, Edward Damrose, MD, Bill Mulkerin, MD, Irene Osborn, MD, RJ Ramamurthi, MD

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

3:15-4:15 pm  **Case Presentations & Discussion; Q&As: Expert Panel**
   - Vladimir Nekhendzy, MD (moderator), Elizabeth Behringer, MD, Carlos Brun, MD, Davide Cattano, MD, PhD, Jeremy Collins, MD, Edward Damrose, MD, Bill Mulkerin, MD, Irene Osborn, MD, RJ Ramamurthi, MD

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

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

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Please register early – space is limited!
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. Drover

30 min  Hands-On: Flexible Scope Teaching Models
Drs. Saxena, Collins, Drover, Jaffe, Mittal, Yin

20 min  Preoperative Endoscopic Airway Examination (PEAE) and PEAE Demo
Dr. Saxena

15 min  Patient Selection, Indications and Contraindications to the Flexible Scope Intubation. Essential Attributes for Success.
Dr. Yin

20 min  Hands-On: Oral and Nasal Flexible Scope Intubation
Drs. Saxena, Collins, Drover, Jaffe, Mittal, Yin

40 min  Difficult Flexible Scope Intubation: Causes and Solutions to the Problems. Advanced Flexible Scope Intubation Techniques
Dr. Mittal

20 min  Awake Flexible Scope Intubation: State-of-the-Art
Dr. Collins

Advanced Airway Management Course Stations
12 difficult airway skills stations arranged in 2 blocks, 6 stations each

1 Video Laryngoscopy
Drs. KSheehan, Mihm

2 Video Stylets/Light Wands
Drs. Joseph, Cattano

3 Lung Separation Techniques
Drs. Kulkarni, Basarab-Tung, Quattlebaum

4 Supraglottic Airways
Drs. Butwick, Goldhaber-Fiebert

5 Intubating LMA
Drs. Osborn, Panigrahi

6 Pediatric Airway
Drs. Ramamurthi, Chen, Murray, JSheehan, Wolke

7 Emergency Airway & Surgical Cricothyroidotomy
Drs. Damrose, Gautreau, Rogich

8 Airway Ultrasound
Dr. Cintron

9 Extubation of the Difficult Airway & Airway Exchange Catheters
Drs. Behringer, Scotto

10 Retrograde Intubation
Drs. McAvoy, Mulkerin

11 Advanced Oxygenation Techniques (THRIVE)
Dr. Nekhendzy

12 Simulation
Drs. Brun, Austin, Harrison, and 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/advancedairway2022
STANFORD ADVANCED AIRWAY MANAGEMENT COURSE – MARCH 26-27, 2022

Please register and pay online by credit card at stanford.cloud-cme.com/advancedairway2022

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Physicians/CRNAs</th>
<th>Non-SHC Residents/Fellows</th>
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</thead>
<tbody>
<tr>
<td>Early Bird Discount</td>
<td>$1,195</td>
<td>$900</td>
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<tr>
<td>Regular After 2/26/22</td>
<td>$1,295</td>
<td>$900</td>
</tr>
<tr>
<td>Special Rates</td>
<td>Returning Learners: $800</td>
<td>International Groups (5 or more): $800</td>
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</table>

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.
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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