Stanford Advanced Airway Management and Fiberoptic Course

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

MARCH 30 – 31, 2019

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 AND FIBEROPTIC COURSE
This comprehensive, multidisciplinary, state-of-the-art course offers airway training to a national and international audience. The course, which is ideally suited for the anesthesiologists, critical care, emergency medicine, and ENT physician, 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 will integrate various educational formats including didactic lectures, hands-on training, Lunch and Learn discussions, and small-group breakouts. New this year is our participant engagement system, which enables learners to submit questions electronically throughout the conference for expert panel discussion. We are also incorporating a call for case studies by the participants; the case winners will be presented by faculty experts to the whole audience. Learn new, up-to-date information, and improve your advanced airway skills in this unique, intense two-day course.

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. Develop skills for alternative ventilation strategies using supraglottic airway (SGA) devices, techniques for SGA-endotracheal tube exchange, and surgical techniques for rescue ventilation.
3. Apply advanced oxygenation techniques, such as Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE).
4. Enhance crisis resources management (CRM) skills for debriefing situations in practice.
5. Determine proper patient selection and preparation for awake flexible fiberoptic intubation (FOI).

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, internal medicine, otolaryngology, and pediatrics as well as anesthesia care providers, Certified Registered Nurse Anesthetists (CRNA), and Emergency Medical Technicians (EMT).

COURSE HIGHLIGHTS
• Over 30 evidence-based lectures, reviews, and case discussions
• “Bring Your Own Case”: submit a challenging airway case for presentation at the meeting at cme.stanford.edu/advancedairway
• 12 state-of-the-art difficult airway stations
• Integrated, 6 station fiberoptic intubation course, including preoperative endoscopic airway examination (PEAE)
• Immersive, high fidelity simulation
• Small learning groups with 3-5 : 1 participant-to-instructor ratio
• Ample time for each participant to practice and acquire new skills
• Q & A by the panel of experts

Become a Stanford H&N Anesthesia and Advanced Airway Management Program (SAAMP) insider and benefit from over 20 years of 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
• Fiberoptic assisted airway exchange techniques
• Fiberoptic stylets
• Combined video intubation techniques
• Fiberoptic evaluation of the lower airway, and lung separation techniques
• Retrograde intubation
• Percutaneous and surgical emergency airway access
• 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

Please register early – space is limited!
INTERNATIONALLY RENOWNED FACULTY/EXPERTS

All faculty are affiliated with Stanford University Medical Center unless otherwise noted.

Vladimir Nekhendzy, MD  
Course Director  
Clinical Professor of Anesthesiology and Otolaryngology- Head and Neck Surgery  
Past President, Society for Head and Neck Anesthesia (SHANA)

Jeremy Collins, MB, ChB, FRCA  
Course Co-Director  
Clinical Associate Professor of Anesthesiology

Edward Damrose, MD, FACS  
Course Co-Director  
Professor, Department of Otolaryngology/Head and Neck Surgery  
Chief, Division of Laryngology  
Director, Stanford Voice and Swallowing Center

Naola Austin, MD  
Clinical Assistant Professor of Anesthesiology

Jennifer Basarab-Tung, MD  
Clinical Assistant Professor of Anesthesiology

Thomas Bradley, MD  
Fellow, Stanford Advanced Airway Management Program  
Clinical Instructor of Anesthesiology

Carlos Brun, MD  
Clinical Assistant Professor of Anesthesiology (Affiliated)  
Staff Anesthesiologist and Intensivist  
Veteran’s Affairs Palo Alto Health Care System

Alex Butwick, MD  
Associate Professor of Anesthesiology

Lynn Cintron, MD  
Affiliate, Department of Anesthesia  
Santa Clara Valley Medical Center  
Associate Clinical Professor of Anesthesiology (Adjunct)  
University of California, Irvine

Tiffany Cheng, MD  
Clinical Instructor of Anesthesiology

John ‘Mike’ Denton, MD  
Fellow, Stanford Advanced Airway Management Program  
Clinical Instructor of Anesthesiology

David Drover, MD  
Professor of Anesthesiology

Susan Galgay, MD  
Clinical Instructor of Anesthesiology

Marc Gautreau, MD  
Clinical Associate Professor, Surgery-Emergency Medicine

Andrew Giustini, MD, PhD  
Chief Resident  
Stanford Combined Pediatrics-Anesthesiology Program

Sara Goldhaber-Fiebert, MD  
Clinical Associate Professor of Anesthesiology

Richard Jaffe, MD, PhD  
Professor of Anesthesiology and Neurosurgery

Amit Joseph, MD  
Clinical Instructor of Anesthesiology

Elizabeth Koch, MD  
Clinical Instructor of Anesthesiology

Vivek Kulkarni, MD, PhD  
Clinical Associate Professor of Anesthesiology

Amy Lu, MD  
Clinical Assistant Professor of Anesthesiology

continued >
Faculty Continued

James McAvoy, MD  
Chief Resident  
Stanford Anesthesiology Program

Fred Mihm, MD  
Professor of Anesthesiology  
Co-Director, Intensive Care Units  
Chief, Division of Critical Care Medicine, Department of Anesthesiology

Brita Mittal, MD  
Clinical Instructor of Anesthesiology

Bill Mulkerin, MD  
Clinical Assistant Professor of Surgery – Emergency Medicine

Periklis Panousis, MD  
Clinical Assistant Professor of Anesthesiology

Radhamangalam ‘RJ’ Ramamurthi, MD  
Clinical Associate Professor of Anesthesiology

Teresa Roman-Micek, BS  
InterCEPT Simulation Coordinator  
Lead Simulationist  
Stanford Center for Immersive and Simulation-Based Learning (CISL)

Amit Saxena, MD  
Clinical Assistant Professor of Anesthesiology

Lena Scotto, MD  
Staff Anesthesiologist, El Camino Hospital, Mountain View, California  
Assistant Clinical Professor of Anesthesiology (Adjunct)

Kristen Telischak, MD  
Staff Anesthesiologist, Anesthesia Care Associates Medical Group, Burlingame, California  
Assistant Clinical Professor of Anesthesiology (Adjunct)

Brian Tse, MD  
Senior Resident  
Stanford Anesthesiology Program

Alexei Wagner, MD, MBA  
Clinical Assistant Professor of Surgery-Emergency Medicine  
Assistant Director of Adult Emergency Medicine

Tammy Wang, MD  
Clinical Assistant Professor of Anesthesiology

Olga Wolke, MD  
Clinical Assistant Professor of Anesthesiology

Ahmed Zaafran, MD  
Clinical Assistant Professor of Anesthesiology (Affiliated)  
Santa Clara Valley Medical Center, San Jose, California

Laura Cavallone, MD  
Associate Professor of Anesthesiology  
Washington University in St. Louis

Richard Cooper, BSc, MSc, MD, FRCPC  
Professor of Anesthesia  
University of Toronto, ON, Canada  
Past President, Society for Airway Management (SAM)

**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!
Each participant will attend the fiberoptic course and 12 difficult airway stations. Each participant will also attend one mini-review and one case-based discussion during the Lunch & Learn Session.

**Saturday, March 30, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:00-7:50 am</td>
<td>Breakfast/Registration</td>
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<tr>
<td>7:50-8:00 am</td>
<td>Introduction/Welcome&lt;br&gt;Vladimir Nekhendzy, MD</td>
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<tr>
<td>8:00-8:30 am</td>
<td><strong>ASA Difficult Airway Algorithm: Best Practice Strategies for Success</strong>&lt;br&gt;Vladimir Nekhendzy, MD</td>
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<tr>
<td>8:30-9:00 am</td>
<td><strong>Pediatric Difficult Airway</strong>&lt;br&gt;Radhamangalam (RJ) Ramamurthi, MD</td>
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<td>9:00-9:30 am</td>
<td><strong>Extubation of the Difficult Airway</strong>&lt;br&gt;Richard M. Cooper, BSc MSc MD FRCPC</td>
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<td>9:30-9:45 am</td>
<td>Break</td>
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<tr>
<td>9:45-12:45 pm</td>
<td><strong>Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course</strong>&lt;br&gt;All faculty</td>
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<td>12:45 – 12:55</td>
<td><strong>Transition to lunch room</strong></td>
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**12:55-2:00 pm** Lunch & Learn (Mini-Reviews): please choose one

1. **Difficult Airway in Obstetrics**<br>Austin, Giustini

2. **ENT Airway Tools: Operating Laryngoscopes, Rigid Bronchoscope, Tracheostomy Tubes**<br>Damrose, Drover, Cavallone

3. **Pediatric Video Laryngoscopy**<br>Ramamurthi, Wolke, Wang

4. **Difficult Airway and Obstructive Sleep Apnea**<br>Nekhendzy, Bradley, Cheng

5. **Lung Isolation in a Patient With the Difficult Airway**<br>Kulkarni, Basarab-Tung, Telischak

6. **Supraglottic Airways in Difficult Airway Management**<br>Butwick, Galgay, Jaffe

7. **Pharmacology for Airway Management in Critically Ill**<br>Brun, Mihm, Scotto

8. **Prehospital Airway Management: Implications for Anesthesiologist**<br>Panousis, Saxena, Cintron

9. **Rapid Sequence Induction: Full Stomach and Cricoid Pressure Controversy**<br>Mulkerin, Lu

10. **Adult Video Laryngoscopy**<br>Zaafran, Cooper, Tse

11. **Airway Management Outside of the Operating Room**<br>Mittal, Koch, Denton

12. **Difficult Airway and Obesity**<br>Collins, Joseph, McAvoy

**2:00-2:40 pm** Critical Decision-Making in ASA Difficult Airway Algorithm: Evidence-Based Approach<br>Vladimir Nekhendzy, MD

2:40-2:50 pm Break

2:50-6:00 pm **Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course**<br>All faculty

6:00 pm Adjourn

Please register early – space is limited!
Each participant will attend the fiberoptic course and 12 difficult airway stations. Each participant will also attend one mini-review and one case-based discussion during the Lunch & Learn Session.

**Sunday, March 31, 2019**

7:00-7:50 am  **Breakfast**

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

8:00-8:30 am  **Critical Care Physician’s Perspective on Difficult Airway Management**
Carlos Brun, MD

8:30-9:00 am  **Emergency Room Physician’s Perspective on Difficult Airway Management**
Marc Gautreau, MD

9:00-9:30 am  **Critical Care Physician’s Perspective on Difficult Airway Management**
Carlos Brun, MD

9:30-9:45 am  **Break**

9:45-12:45 pm  **Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course**
All faculty

12:45 – 12:55  **Transition to lunch room**

12:55-2:00 pm  **Lunch & Learn (Case-Based Discussions): please choose one**

1 **Difficult Airway in the Emergency Department**
Wagner, Panousis, Austin

2 **Pediatric Difficult Airway: Airway Management of Foreign Bodies in Children**
Wolke, Wang, Giustini

3 **Difficult Airway in Critical Care #1**
Brun, Scotto

4 **Difficult Airway in Critical Care #2**
Mihm, Basarab-Tung, Telischak

5 **Difficult Airway in Head and Neck Surgery #1**
Nekhendzy, Damrose, Denton, Cheng

6 **Difficult Airway in Head and Neck Surgery #2**
Galgay, Cavallone, Lu

7 **Airway Management in the Morbidly Obese Patient**
Collins, Kulkarni, Cintron

8 **Unanticipated Difficult Airway: Failed Direct and Video Laryngoscopy**
Zafran, Cooper, Tse

9 **Anticipated Difficult Airway: Unstable C-spine**
Bradley, Jaffe, Panousis

10 **Anticipated Difficult Airway: Retrognathia**
Saxena, Goldhaber-Fiebert, Ramamurthi

11 **Anticipated Difficult Airway: Difficult Fiberoptic Intubation**
Drover, McAvoy, Koch

12 **Preoperative Endoscopic Airway Examination (PEAE)**
Mittal, Joseph, Butwick

2:00-3:05 pm  **Case-Based Discussions by Faculty**
Brun, Collins, Damrose, Nekhendzy, Ramamurthi, Wagner

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

3:15-4:00 pm  **Bring Your Own Case Discussion with Expert Panel**
Nekhendzy (moderator), Collins, Brun, Damrose, Ramamurthi, Cavallone, Cooper, Gautreau

4:00-4:20 pm  **Expert Panel: Q & A**
Brun, Collins, Damrose, Ramamurthi, Nekhendzy (moderator)

4:20-4:30 pm  **Concluding Remarks**
Vladimir Nekhendzy, MD

4:30 pm  **Adjourn**

Please register early – space is limited!
### DESCRIPTION OF HANDS-ON ADVANCED AIRWAY COURSE AND FIBEROPTIC INTUBATION COURSE

#### Fiberoptic Intubation Course
Lecture and 6 hands-on stations

- **15 min** Fundamental Technical Skills Required for Successful Fiberoptic Intubation
  - Drover
- **45 min** Hands-On: Fiberoptic Teaching Models
  - Collins, Drover, Jaffe, Saxena, Galgay, Mihm
- **15 min** Patient Selection, Indications and Contraindications for Flexible Fiberoptic Intubation: Essential Attributes for Success
  - Collins
- **20 min** Hands-On: Oral and Nasal Fiberoptic Intubation
  - Collins, Drover, Jaffe, Saxena, Galgay, Mihm

- **15 min** Awake Flexible Fiberoptic Intubation: State-of-the-Art
  - Collins
- **15 min** Demo: Preoperative Endoscopic Airway Examination (PEAE)
  - Saxena
- **15 min** Difficult Flexible Fiberoptic Intubation: Causes and Solutions to the Problems. Advanced Techniques of Flexible Fiberoptic Intubation.
  - Collins
- **60 min** Hands-On: Advanced Techniques of Flexible Fiberoptic Intubation, Including Fiberoptic-Guided Airway Exchange
  - Collins, Drover, Jaffe, Saxena, Galgay, Mihm

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

1. **Video Laryngoscopy**
   - Zaafran, Cooper
2. **Fiberoptic Stylets/Light Wands**
   - Lu, Joseph, Panousis
3. **Lung Separation Techniques**
   - Kulkarni, Telischak, Basarab-Tung
4. **Supraglottic Airways**
   - Butwick, Goldhaber-Fiebert
5. **Intubating LMA**
   - Cheng, Koch
6. **Pediatric Airway**
   - Ramamurthi, Giustini, Wang, Wolke
7. **Emergency Airway & Surgical Cricothyroidotomy**
   - Mukirkin, Wagner, Damrose, Bradley
8. **Airway Ultrasound**
   - Cintron
9. **Exubation of Difficult Airway & Airway Exchange Catheters**
   - Cavallone, Tse
10. **Retrograde Intubation**
    - Denton, McAvoy
11. **Advanced Oxygenation Techniques (THRIVE)**
    - Mittal
12. **Simulation**
    - Brun, Austin, Scotto, Roman-Micek

### ACCREDITATION
The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

### CREDIT DESIGNATION
Stanford University School of Medicine designates this live activity for a maximum of 17.0 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 cme.stanford.edu/advancedairway
Registration

Please register and pay online by credit card at cme.stanford.edu/advancedairway

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>Early Bird Discount</th>
<th>Physicians/CRNAs $1,195</th>
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<tbody>
<tr>
<td></td>
<td>Non-SHC Residents/Fellows $900</td>
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<tr>
<td>Regular After 2/28/19</td>
<td>Physicians/CRNAs $1,295</td>
</tr>
<tr>
<td></td>
<td>Non-SHC Residents/Fellows $900</td>
</tr>
<tr>
<td>Special Rates</td>
<td>Returning Learners: $800</td>
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<td></td>
<td>International Groups (5 or more): $800</td>
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</tbody>
</table>

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

If you prefer to pay by phone or 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 30 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 this program; 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: visit.stanford.edu/plan/lodging

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 Mary Sisney, CME Coordinator, Stanford Center for Continuing Medical Education at (650) 724-7166 or email: msisney@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.”

Register online at cme.stanford.edu/advancedairway