Stanford Advanced Airway Management

September 9th – 10th, 2017

Li Ka Shing Center for Learning and Knowledge
Stanford, California

A Continuing Medical Education Conference
Presented by Stanford University
Department of Anesthesiology
Advanced Airway Management Program

Sponsored by the Stanford University School of Medicine
The Stanford Advanced Airway Management Program (SAAMP) of the Department of Anesthesiology offers comprehensive, multidisciplinary airway training to a national and international audience. The course is ideally suited for the anesthesiologists, critical care, emergency medicine, and ENT physicians.

Learn new, up to date information, and instantly improve your advanced airway skills in this unique, intense 2-day course. We teach all aspects of advanced airway management in the operating room, emergency department, intensive care unit, and in adult and pediatric patients.

LEARNING OBJECTIVES
At the conclusion of this activity, participants should be able to:
1. Develop 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. Discuss and appraise advanced oxygenation techniques, such as Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE).
4. Develop or improve crisis resources management (CRM) skills for debriefing situations in practice.
5. Determine proper patient selection and preparation for awake flexible fiberoptic intubation.

STATEMENT OF NEED
This comprehensive, state-of-the-art course will provide physicians with the best knowledge, and solid technical skills for effectively managing anticipated and unanticipated difficult airway in the operating room, emergency department, intensive care unit, and in diverse clinical situations.

TARGET AUDIENCE
This course is intended for local, national and international anesthesia care providers, and emergency medicine, critical care, and ENT physicians, who wish to improve their knowledge, competence, and performance in advanced airway management.

COURSE HIGHLIGHTS
- Over 30 evidence-based lectures, reviews, and case discussions
- 12 state-of-the-art difficult airway stations, including airway ultrasound and surgical cricothyrotomy
- Integrated, 6 station fiberoptic intubation course, including preoperative endoscopic airway examination (PEAE)
- Immersive, high fidelity simulation
- Focused mini-workshop on lung separation
- Small learning groups with 3-5 : 1 participant-to-instructor ratio
- Ample time for each participant to practice and acquire new skills

Become a 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
- Preoperative endoscopic airway examination
- 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 (pig tracheas) emergency airway access
- Ultrasound-guided access to cricothyroid membrane
- Transtracheal jet ventilation
- Advanced oxygenation techniques (THRIVE)
- Airway exchange catheters and staged extubation
- Pediatric difficult airway
- Difficult airway simulation scenarios
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
Director, Stanford Advanced Airway Management Program

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

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

**Olga Albert, MD**
Clinical Assistant Professor of Anesthesiology

**Naola Austin, MD**
Clinical Assistant Professor of Anesthesiology

**Jennifer Basarab-Tung, MD**
Clinical Assistant Professor of Anesthesiology

**Carlos Brun, MD**
Clinical Assistant Professor of Anesthesiology
Co-Director, Medical Surgical ICU
Veteran’s Affairs Palo Alto Health Care System

**Erin Bushell, MD**
Clinical Assistant Professor of Anesthesiology

**Alex Butwick, MD**
Associate Professor of Anesthesiology

**Marianne Chen, MD**
Clinical Assistant Professor of Anesthesiology

**Tiffany Cheng, MD**
Clinical Instructor of Anesthesiology

**Lynn Cintron, MD**
Associate Clinical Professor of Anesthesiology (Adjunct)
University of California, Irvine

**Rebecca Claure, MD**
Clinical Associate Professor of Anesthesiology

**Thomas Dalton, MD**
Clinical Assistant Professor of Surgery-Emergency Medicine

**David Drover, MD**
Professor of Anesthesiology

**Sara Goldhaber-Fiebert, MD**
Clinical Associate Professor of Anesthesiology

**Maeve Hennessy, MD**
Clinical Assistant Professor of Anesthesiology

**Jerry Ingrande, MD**
Clinical Assistant Professor of Anesthesiology

**Richard Jaffe, MD, PhD**
Professor of Anesthesiology and Neurosurgery

**Amit Joseph, MD**
Clinical Instructor of Anesthesiology

**Vivek Kulkarni, MD, PhD**
Clinical Associate Professor of Anesthesiology

**Amy Lu, MD**
Clinical Assistant Professor of Anesthesiology

Register online at cme.stanford.edu/advancedairway

continued >
Kevin Malott, MD  
Clinical Associate Professor of Anesthesiology

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

Brita Mittal, MD  
Clinical Instructor of Anesthesiology

Bill Mulkerin, MD  
Clinical Instructor of Surgery – Emergency Medicine

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

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

Amit Saxena, MD  
Clinical Instructor of Anesthesiology

Lena Scotto, MD  
Staff Anesthesiologist  
El Camino Hospital, Mountain View, California

Pedro Tanaka, MD, PhD  
Clinical Professor of Anesthesiology

Kristen Telischak, MD  
Clinical Instructor of Anesthesiology

Tammy Wang, MD  
Clinical Assistant Professor of Anesthesiology

Louise Wen, MD  
Clinical Instructor of Anesthesiology

Ahmed Zaafran, MD  
Clinical Assistant Professor of Anesthesiology (Adjunct)

Guest Faculty

Davide Cattano, MD, PhD  
Professor of Anesthesiology  
Chief, Head and Neck Anesthesia  
The McGovern Medical School, UTH at Houston, Texas

Anil Patel, MB BS, FRCA  
Chairman, Department of Anaesthesia  
Royal National Throat Nose & Ear Hospital  
President, Difficult Airway Society  
London, U.K.

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.

Register online at cme.stanford.edu/advancedairway
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, September 9, 2017**

<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</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></td>
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<td></td>
<td>Nekhendzy</td>
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<tr>
<td>8:30-9:00 am</td>
<td><strong>Pediatric Difficult Airway</strong></td>
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<td>Ramamurthi</td>
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<tr>
<td>9:00-9:30 am</td>
<td><strong>Extubation of the Difficult Airway</strong></td>
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<td>Cattano</td>
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<tr>
<td>9:30-9:45 am</td>
<td>Break</td>
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<tr>
<td>9:45-1:00 pm</td>
<td><strong>Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course</strong></td>
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<td>All Faculty</td>
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<tr>
<td>1:00-2:00 pm</td>
<td><strong>Lunch &amp; Learn (Mini-Reviews): please choose one</strong></td>
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<tr>
<td></td>
<td>All Faculty</td>
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<tr>
<td>2:00-2:40 pm</td>
<td><strong>Critical Decision-Making in ASA Difficult Airway Algorithm: Evidence-Based Approach</strong></td>
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<tr>
<td></td>
<td>Nekhendzy</td>
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<tr>
<td>2:40-2:50 pm</td>
<td>Break</td>
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<tr>
<td>2:50-6:00 pm</td>
<td><strong>Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course</strong></td>
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<tr>
<td></td>
<td>All faculty</td>
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<tr>
<td>6:00 pm</td>
<td>Adjourn</td>
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Opportunities for Q&A will be provided at the conclusion of each presentation.
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, September 10, 2017

**7:00-7:50 am**  |  **Breakfast**  
**7:50-8:00 am**  |  **Review of Day 1**  
  |  Nekhendzy  
**8:00-8:30 am**  |  **Critical Care Physician’s Perspective on Difficult Airway Management**  
  |  Brun  
**8:30-9:00 am**  |  **Emergency Room Physician’s Perspective on Difficult Airway Management**  
  |  Dalton  
**9:00-9:30 am**  |  **ENT Surgeon’s Perspective on Difficult Airway Management**  
  |  Damrose  
**9:30-9:45 am**  |  **Break**  
**9:45-1:00 pm**  |  **Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course**  
  |  All Faculty  
**1:00-2:00 pm**  |  **Lunch & Learn (Case-Based Discussions): please choose one**  
  |  All Faculty  
  |  **Difficult airway in the emergency department**  
  |  Mulkerin, Zaafran, Austin  
  |  **Pediatric difficult airway: management of airway foreign bodies**  
  |  Claure, Ramamurthi, Albert, Wang  
  |  **Difficult airway in critical care #1**  
  |  Brun, Scotto  
  |  **Difficult airway in critical care #2**  
  |  Mihm, Basarab-Tung, Wen  
  |  **Difficult airway in head and neck surgery #1**  
  |  Nekhendzy, Damrose, Cheng  
  |  **Difficult airway in head and neck surgery #2**  
  |  Lu, Cattano, Cintron  
  |  **Airway management in the morbidly obese patient**  
  |  Collins, Ingrande, Kulkarni  
  |  **Unanticipated difficult airway: failed direct and video laryngoscopy**  
  |  Malott, Butwick  
  |  **Anticipated difficult airway: unstable C-spine**  
  |  Chen, Jaffe, Tanaka  
**2:00-2:50 pm**  |  **Case-Based Discussions**  
  |  Collins, Ramamurthi, Mulkerin  
**2:50-3:00 pm**  |  **Break**  
**3:00-3:50 pm**  |  **Case-Based Discussions**  
  |  Nekhendzy, Brun, Damrose  
**3:50-4:00 pm**  |  **Concluding Remarks**  
  |  Nekhendzy  
**4:00 pm**  |  **Adjourn**  

Opportunities for Q&A will be provided at the conclusion of each presentation.

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, Malott, Hennessy
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, Malott, Hennessy
15 min Awake flexible fiberoptic intubation: State-of-the-art
Collins
15 min Demo: Preoperative endoscopic airway examination (PEAE)
Saxena
20 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, Malott, Hennessy

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

1 Video Laryngoscopy
Zaafran, Ingrande
2 Fiberoptic Stylets/Light Wands
Lu, Joseph, Cheng
3 Lung Separation Techniques
Kulkarni, Telischak, Basarab-Tung
4 Supraglottic Airways
Butwick, Goldhaber-Fiebert
5 Intubating LMA
Nekhendzy, Mittal
6 Pediatric Airway
Claure, Ramamurthi, Albert, Wang
7 Emergency Airway & Surgical Cricothyroidotomy
Mulkerrin, Dalton, Damrose
8 Airway Ultrasound
Cintron, Scotto
9 Extubation of Difficult Airway & Airway Exchange Catheters
Cattano, Mihm
10 Retrograde Intubation
Tanaka, Chen
11 Advanced oxygenation techniques (THRIVE)
Bushell, Patel
12 Simulation
Brun, Austin, Wen, 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 16.25 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.
Please register and pay online by credit card at cme.stanford.edu/advancedairway

PLEASE REGISTER EARLY – SPACE IS LIMITED. Registration fee includes continental breakfast, refreshment breaks, lunch, certificate of attendance, and on-line syllabus. Tuition may be paid by check, Visa, or MasterCard.

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Early Bird Discount</th>
<th>Physicians/CRNAs</th>
<th>$995</th>
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</thead>
<tbody>
<tr>
<td>Residents/Fellows</td>
<td>$900</td>
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<tr>
<td>Regular</td>
<td>Physicians/CRNAs</td>
<td>$1,095</td>
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<tr>
<td>After 8/3/17</td>
<td>Residents/Fellows</td>
<td>$900</td>
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<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
Yolanda Cervantes, CME Coordinator, Stanford Center for Continuing Medical Education at (650) 724-9549 or email ycervant@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.
Attendees’ Comments

“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.”

“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.”

“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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