



**CALIFORNIA THORACIC SOCIETY  
NORTHERN CALIFORNIA  
ANNUAL EDUCATIONAL CONFERENCE  
FRIDAY JANUARY 18, 2019 – SATURDAY JANUARY 19, 2019**

**ARDS: ADVANCED STRATEGIES IN VENTILATOR MANAGEMENT;  
ADVANCES IN SLEEP DISORDERED BREATHING  
AND NONINVASIVE VENTILATION**

**JOINTLY PROVIDED BY:  
THE CALIFORNIA THORACIC SOCIETY  
THE AMERICAN THORACIC SOCIETY  
And in cooperation with CALIFORNIA SOCIETY FOR RESPIRATORY CARE**

**A COMPREHENSIVE TWO DAY PROGRAM FOR PULMONOLOGISTS, CRITICAL CARE PHYSICIANS, INTERNAL  
MEDICINE PHYSICIANS, SLEEP SPECIALISTS, IN-TRAINING FELLOWS AND RESIDENTS, NPs, PAs, RNs, RTs,  
SLEEP TECHNOLOGISTS, PharmDs AND OTHER HEALTH CARE PROFESSIONALS IN THE FIELD OF  
PULMONARY, CRITICAL CARE AND SLEEP MEDICINE.**

**PORTOLA HOTEL, MONTEREY, CA  
EARN 13.50 CME CREDITS / 13.50 CEU CREDITS**

# CME STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Thoracic Society (ATS) and California Thoracic Society (CTS). The ATS is accredited by the ACCME to provide continuing medical education for physicians.

The ATS designates this live activity for a maximum of 13.50 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The California Thoracic Society is approved by the California Board of Registered Nursing, Provider #CEP599 for 13.50 contact hours.

The course meets the requirements for CE for RCPs in California.

## Course Information

### ACTIVITY SUMMARY:

This conference brings together regional and national experts to discuss the latest advances in respiratory medicine. ARDS and Sleep Disordered Breathing are complex respiratory conditions faced by physicians, advanced practice and allied health professionals in the critical care, inpatient and ambulatory settings.

Friday's program focuses on the multidisciplinary approach to ARDS evaluation and management with an emphasis on complex case-based discussions and ventilator strategies.

Saturday's program focuses on evidence-based sleep apnea evaluation and management, complex sleep disordered breathing including sleep hypoventilation syndromes and noninvasive ventilation. The afternoon hands-on sessions will educate providers on appropriate uses of noninvasive ventilation, interpreting reports from devices and daytime use of noninvasive ventilation for chronic respiratory failure syndromes.

### TARGET AUDIENCE:

The program is designed for all health care professionals involved with the care and treatment of patients with ARDS, Sleep Apnea Syndromes, Sleep-Related Hypoventilation Syndromes including COPD, Obesity Hypoventilation, Neuromuscular Diseases and Chronic Respiratory Failure. This includes pulmonologists, critical care physicians, internal medicine physicians, sleep specialists, in-training fellows and residents, NPs, PAs, RNs, RTs, sleep technologists and PharmDs and any other health care professionals in the field of pulmonary, critical care, and sleep medicine.

## Educational Objectives

- Apply an evidence-based approach to diagnosis and treatment of ARDS.
- Understand the role of blood biomarkers in ARDS.
- Use effective ventilator strategies in the management of ARDS.
- Apply updated strategies for management of refractory hypoxemia in ARDS.
- Apply evidence-based approach to the diagnosis and management of Obstructive Sleep Apnea.
- Understand rationale and indications for in laboratory polysomnography versus home sleep testing.
- Apply evidence-based approach to the diagnosis and management of sleep related hypoventilation syndromes.
- Understand effective use and management of noninvasive ventilation for hypoventilation syndromes.
- Apply updated strategies for daytime application of noninvasive ventilation.

# FACULTY

Michelle Cao, DO  
Stanford University

William Stringer, MD  
Harbor-UCLA

George Su, MD  
UC San Francisco

Michael Matthay, MD  
UCS San Francisco

Angela Rogers, MD  
Stanford University

Atul Malhotra, MD  
UC San Diego

Joseph Levitt, MD, MS  
Stanford University

Lance Pangilinan, RRT  
UC San Francisco

Justin Phillips, RRT  
UC San Francisco

Gregory Burns, RRT  
UC San Francisco

Vivian Yip, RRT  
UC San Francisco

Rich Kallet, MS, RRT  
UC San Francisco

Neil Ross MacIntyre, MD  
Duke University

Jim Fink, PhD, RRT, FCCP  
Aerogen Pharma

Kathleen Sarmiento, MD  
UC San Francisco

Lisa Wolfe, MD  
Northwestern University

Janine Vintch, MD  
Harbor-UCLA

Shannon Sullivan, MD  
Stanford University

Won Lee, MD  
UT Southwestern Dallas

Gaurav Singh, MD  
Stanford University

## Planning Committee

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UC San Francisco

Justin Oldham MD  
UC Davis

William Stringer, MD  
Harbor-UCLA

Matthew Dartt RRT  
UC San Francisco

## Hotel Accommodations

The California Thoracic Society has secured a limited number of rooms at the Portola Hotel located at Two Portola Plaza, Monterey, CA 93940. For check-in on Thursday, January 17, 2019 and check-out on Sunday, January 20, 2019, the room rate is \$209 per night plus taxes. Click on the following link to make your room reservations:

<https://book.passkey.com/go/CaliforniaThoracicSociety2019>

If you prefer to call the hotel, dial 1-888-222-5851; You must mention that you are with California Thoracic Society 2019 Conference to get your group rate.

# PROGRAM SCHEDULE

**FRIDAY, JANUARY 18, 2019**

## **ARDS: ADVANCED STRATEGIES IN VENTILATOR MANAGEMENT**

**7:00 am – 8:00 am**  
**Registration / Exhibits**

**8:00 am – 8:05 am**  
**Welcome and Introductions; Pre-Test**  
William Stringer, MD; George Su, MD

**8:05 am – 8:55 am**  
**KEY NOTE SPEAKER: The Acute Respiratory Distress Syndrome (ARDS)**  
Michael Matthay, MD

**8:55 am – 9:45 am**  
**Advances in Ventilator Management of ARDS**  
Angela Rogers, MD

**9:45 am – 10:00 am**  
**BREAK / EXHIBIT HALL OPEN**

**10:00 am – 10:45 am**  
**Driving Pressure and Lung Mechanics**  
Atul Malhotra, MD

**10:45 am – 11:35 am**  
**Refractory Hypoxemia**  
Joseph Levitt, MD, MS

**11:35 am – 12:05 pm**  
**LARGE GROUP: (Audience Response): Ventilator Management 1: Ventilator Graphics, Scalars, Lung Mechanics (ASL 5000 with vent)**  
Lance Pangilinan, RRT; Justin Phillips, RRT; Gregory Burns, RRT; Vivian Yip, RRT; Rich Kallet, MS, RRT

**12:05 pm – 1:10 pm**  
**LUNCH / EXHIBIT HALL OPEN**

**1:10 pm – 1:55 pm**  
**Consequences of Unintended Intubation**  
Neil Ross MacIntyre, MD

**1:55 pm – 2:40 pm**  
**ARDS, Respiratory Failure and Blood Biomarkers**  
Angela Rogers, MD

**2:40 pm – 3:00 pm**  
**BREAK / EXHIBIT HALL OPEN**

**3:00 pm – 3:45 pm**  
**New Strategies in Aerosolized Therapies in Critical Care**  
Jim Fink, PhD

**3:45 pm – 4:30 pm**  
**LARGE GROUP: (Audience Response): Ventilator Management 2: Case Examples in ARDS and Respiratory Failure**  
Lance Pangilinan, RRT; Justin Phillips, RRT; Gregory Burns, RRT; Vivian Yip, RRT; Rich Kallet, MS, RRT

**4:30 pm – 5:15 pm**  
**Prone Positioning, Recruitment maneuvers**  
Rich Kallet, MS, RRT

**5:15 pm – 5:20 pm**  
**Closing Remarks and Post Test**  
William Stringer, MD; George Su, MD

# PROGRAM SCHEDULE

**SATURDAY, JANUARY 19, 2019**

## **ADVANCES IN SLEEP DISORDERED BREATHING AND NONINVASIVE VENTILATION**

**7:00 am – 8:00 am**  
**Registration / Exhibits**

**8:00 am – 8:10 am**  
**Welcome and Introductions; Pre-Test**  
Michelle Cao, DO

**Advances in Sleep Apnea Evaluation and Management**

**8:10 am – 8:50 am**  
**KEY NOTE SPEAKER: Evidence Based OSA Management and Non-PAP Therapies**  
Atul Malhotra, MD

**8:50 am – 9:20 am**  
**Cardiovascular Disease and Sleep Apnea: What is the Current Evidence?**  
Kathleen Sarmiento, MD

**9:20 am – 9:50 am**  
**Central Sleep Apnea and Heart Failure: PAP versus Oxygen versus Phrenic Nerve Stimulation**  
Lisa Wolfe, MD

**9:50 am – 10:10 am**  
**BREAK / EXHIBIT HALL OPEN**

**10:10 am – 10:40 am**  
**The Perioperative Management of Sleep Disordered Breathing**  
Janine Vintch, MD

**10:40 am – 11:10 am**  
**Using Technology to Improve Outcomes in Sleep Disordered Breathing**  
Shannon Sullivan, MD

**11:10 am – 11:40 am**  
**Utility of the In Lab Polysomnogram in a New Era of Home Sleep Testing**  
Won Lee, MD

**11:40 am – 12:10 pm**  
**Central Sleep Apnea and Chronic Opioid Use**  
Kathleen Sarmiento, MD

**12:10 pm – 1:10 pm**  
**LUNCH / EXHIBIT HALL OPEN**

**Advances in Complex Sleep Related Respiratory Disorders and Noninvasive Ventilation**

**1:10 pm – 1:40 pm**  
**Sleep Disordered Breathing in Neuromuscular Disease**  
Won Lee, MD

**1:40 pm – 2:20 pm**  
**Respiratory Assist Devices (ST, VAPS Technology), Interpreting NIV Downloads /Mask Interface Options**  
Faculty: Won Lee, MD; Lisa Wolfe, MD; Shannon Sullivan, MD; Gaurav Singh, MD; Michelle Cao, DO; Kathleen Sarmiento, MD

**2:20 pm – 3:00 pm**  
**Home Ventilators, Interpreting Ventilator Downloads and Daytime use of Noninvasive Ventilation**  
Faculty: Won Lee, MD; Lisa Wolfe, MD; Shannon Sullivan, MD; Gaurav Singh, MD; Michelle Cao, DO; Kathleen Sarmiento, MD

**3:00 pm – 3:20 pm**  
**BREAK / EXHIBIT HALL OPEN**

**3:20 pm – 4:00 pm**  
**NIPPV for the Hypercapnic COPD and Obesity Hypoventilation Patient**  
Gaurav Singh, MD

**4:00 pm – 4:40 pm**  
**Daytime Use of NIPPV**  
Lisa Wolfe, MD

**4:40 pm - 5:00 pm**  
**Closing Remarks and Post Test**  
Michelle Cao, DO



# CALIFORNIA THORACIC SOCIETY NORTHERN CALIFORNIA ANNUAL EDUCATIONAL CONFERENCE FRIDAY JANUARY 18, 2019 - SATURDAY JANUARY 19, 2019

## REGISTRATION FORM

Name: \_\_\_\_\_ Degree: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

Email: \_\_\_\_\_

### Registration Fees Register by December 31, 2018 to lock-in early-bird rates!

CTS Member Rates	Physician Member		Allied Health Professional / Emeritus Member		Fellow/Student	
	Early-bird	Standard	Early-bird	Standard	Early-bird	Standard
<b>2 Day Registration</b>	<input type="checkbox"/> \$350	<input type="checkbox"/> \$375	<input type="checkbox"/> \$175	<input type="checkbox"/> \$200	<input type="checkbox"/> \$100	<input type="checkbox"/> \$100
<b>1 Day Registration</b>	<input type="checkbox"/> \$175	<input type="checkbox"/> \$200	<input type="checkbox"/> \$100	<input type="checkbox"/> \$125	<input type="checkbox"/> \$100	<input type="checkbox"/> \$100

Non-Member Rates	Non-Member Physician		Non-Member Allied Health Professional		Fellow/Student	
	Early-bird	Standard	Early-bird	Standard	Early-bird	Standard
<b>2 Day Registration</b>	<input type="checkbox"/> \$395	<input type="checkbox"/> \$425	<input type="checkbox"/> \$200	<input type="checkbox"/> \$225	<input type="checkbox"/> \$100	<input type="checkbox"/> \$100
<b>1 Day Registration</b>	<input type="checkbox"/> \$200	<input type="checkbox"/> \$225	<input type="checkbox"/> \$125	<input type="checkbox"/> \$150	<input type="checkbox"/> \$100	<input type="checkbox"/> \$100

*Note that breakfast and lunch will be served on Friday and Saturday. There will also be some scheduled NCME Events that will be announced very soon.*

### Cancellations

Cancellations received before December 31, 2018 are subject to a \$75 cancellation fee. No refunds or cancellations after December 31, 2018. Substitute attendees are permitted. All cancellation requests must be made in writing and sent to [info@calthoracic.org](mailto:info@calthoracic.org).

### Payment

☐ Check Enclosed (payable to California Thoracic Society)

Charge: ☐ Visa ☐ MasterCard ☐ AMEX

Card #: \_\_\_\_\_ Exp: \_\_\_\_\_

Signature: \_\_\_\_\_

Cardholder Name (Please Print Clearly) \_\_\_\_\_

Billing address associated with card: \_\_\_\_\_

### Three Ways to Register:

- 1. On-Line:** [www.calthoracic.org](http://www.calthoracic.org) (Visa/MC/AMEX)
- 2. By FAX:** 703-752-4360 (Visa/MC/AMEX)
- 3. By Mail:** CTS, 18 Bartol Street # 1054, San Francisco, CA 94133 (Check/Visa/MC/AMEX)

### QUESTIONS:

Contact CTS at 415-536-0287 or email [info@calthoracic.org](mailto:info@calthoracic.org)

