

# CALIFORNIA THORACIC SOCIETY ANNUAL EDUCATIONAL CONFERENCE

FRIDAY MARCH 11, 2022 - SUNDAY MARCH 13, 2022

UPDATES ON THE COVID-19 PANDEMIC,  
LUNG CANCER,  
SLEEP DISORDERS,  
AND CLIMATE CHANGE  
EFFECTS ON LUNG HEALTH

**JOINTLY PROVIDED BY:**

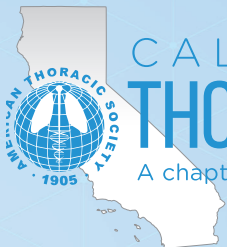
THE CALIFORNIA THORACIC SOCIETY AND THE AMERICAN THORACIC SOCIETY

And in cooperation with  
CALIFORNIA SOCIETY FOR RESPIRATORY CARE

A COMPREHENSIVE TWO-DAY PROGRAM FOR PULMONOLOGISTS, INTENSIVISTS, SLEEP SPECIALISTS, ANESTHESIOLOGISTS PRACTICING CRITICAL CARE, HOSPITALISTS, INTERNAL MEDICINE PHYSICIANS, RADIOLOGISTS, RESPIRATORY THERAPISTS, SLEEP TECHNOLOGISTS, NURSES, ADVANCED PRACTICE PROVIDERS (APPs: NURSE PRACTITIONERS, PHYSICIAN ASSISTANTS), APP TRAINEES, ADVANCED CLINICAL PRACTITIONERS (ACPs), PHARMACISTS, FELLOWS, RESIDENTS, AND OTHER HEALTH CARE PROFESSIONALS IN THE FIELD OF PULMONARY, CRITICAL CARE AND SLEEP MEDICINE

**PORTOLA HOTEL & SPA, MONTEREY, CA**

**EARN UP TO 14.0 CME CREDITS / 14.0 CEU CREDITS**  
(7 CME/CMU Credits Available for Friday; 7 CME/CMU Credits Available for Saturday)



CALIFORNIA  
**THORACIC SOCIETY**  
A chapter of the American Thoracic Society

## CME/CE 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 and California Thoracic Society.

The American Thoracic Society is accredited by the ACCME to provide continuing medical education for physicians.

The American Thoracic Society designates this live activity for a maximum of 14.0 AMA PRA Category 1 Credit(s)<sup>™</sup>.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Note: 7.0 CME credits available for Friday; 7.0 CME credits available for Saturday.

The California Thoracic Society is approved by the California Board of Registered Nursing, Provider #CEP599 for a total of 14.0 contact hours.

Note: 7.0 CEU credits available for Friday; 7.0 CEU credits available for Saturday.

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 Pulmonary, Critical Care and Sleep Medicine.

**Friday, Day 1** will address the COVID-19 pandemic, including the latest evidence-based medical strategies, ECMO and transplantation, and models of post-COVID-19 care. This will be followed by advances in lung cancer from diagnostics to therapeutics to palliative procedures.

**Saturday, Day 2** begins with an update on sleep disorders including sleep-disordered breathing, hypersomnia, insomnia and restless legs syndrome. This will be followed by major public health issues focusing on the climate crisis and vaping and their effects on lung health.

### TARGET AUDIENCE:

The program is designed for pulmonologists, intensivists, sleep specialists, anesthesiologists practicing critical care, hospitalists, internal medicine physicians, radiologists, respiratory therapists, sleep technologists, nurses, advanced practice providers (APPs: nurse practitioners, physician assistants) and APP trainees, advanced clinical practitioners (ACPs), pharmacists, in-training fellows and residents, and other health care professionals in the field of pulmonary, critical care, and sleep medicine.

## EDUCATIONAL OBJECTIVES

- ◆ To describe and employ the latest COVID-19 treatment strategies in all settings, including ambulatory care to the ICU to long-COVID management tenets.
- ◆ To identify and apply up-to-date bronchoscopic techniques in the realm of lung cancer diagnostics and palliation.
- ◆ To classify and compare the various types of anti-lung cancer pharmacotherapies and their pulmonary side effects.
- ◆ To implement advances in alternative therapies for sleep-disordered breathing as well as pharmacologic and behavioral treatment strategies for sleep-wake disturbances, including hypersomnia and insomnia.
- ◆ To understand the impact of climate change and air pollution from wildfires and vaping on lung health, along with mitigation strategies.

**Gaurav Singh, MD, MPH**

**Conference Co-Chair**

Clinical Assistant Professor  
Pulmonary, Critical Care, Sleep Section  
Palo Alto VA Health Care System

**Michelle Cao, DO**

**Co-Chair, Education Committee: California Thoracic Society**

Clinical Associate Professor  
Division of Pulmonary, Allergy & Critical Care Medicine  
Stanford University

**Shazia Jamil, MD**

**Co-Chair, Education Committee: California Thoracic Society**

Head, Academic Affairs: Division of Pulmonary, Critical Care & Sleep Medicine, Scripps Clinic  
Co-Director: Circadian Rhythm Sleep Disorders and Chronotherapy Program  
Clinical Associate Professor of Medicine  
University of California, San Diego

**Colleen Channick, MD**

Professor of Medicine  
Division of Pulmonary, Critical Care & Sleep Medicine  
University of California, Los Angeles

**Kaissa de Boer, MD**

Clinical Assistant Professor  
Division of Pulmonary, Allergy & Critical Care Medicine  
Stanford University

**Kristina Kudelko, MD**

**Conference Co-Chair**

Clinical Associate Professor  
Division of Pulmonary, Allergy & Critical Care Medicine  
Stanford University

**Nicholas Kolaitis, MD**

Assistant Clinical Professor  
Division of Pulmonary, Critical Care, Allergy & Sleep Medicine  
University of California, San Francisco

**Brooks Kuhn, MD, MAS**

Assistant Clinical Professor  
Division of Pulmonary, Critical Care & Sleep Medicine  
University of California, Davis

**Jason Lee, MD**

Internal Medicine GME Teaching Faculty  
Division of Pulmonary, Critical Care & Sleep Medicine  
Scripps Clinic

**May Lee, MD**

Clinical Associate Professor of Medicine  
Division of Pulmonary, Critical Care & Sleep Medicine  
University of Southern California

**Brandon Nokes, MD**

Postdoctoral Scholar, Medicine  
Division of Pulmonary, Critical Care & Sleep Medicine  
University of California, San Diego

# PLANNING COMMITTEE

CTS MARCH 2022 CONFERENCE

**Justin Phillips, RCP, RRT-ACCS**

Department of Anesthesia  
University of California, San Francisco

**George Su, MD**

Professor of Medicine  
Division of Pulmonary, Critical Care, Allergy & Sleep Medicine  
San Francisco General Hospital  
University of California, San Francisco

**Angela Wang, MD**

Clinical Professor of Medicine  
Division of Pulmonary, Critical Care & Sleep Medicine  
University of California, San Diego

**Harmeet Bedi, MD**

Stanford University

**Emma Blackmon, PhD, RN, CCRN**

UC Davis

**Michelle Cao, DO**

Stanford University

**Robson Capasso, MD**

Stanford University

**George Chaux, MD**

Cedars-Sinai Medical Center

**Krystal Craddock, MSRC, RRT, RRT-ACCS, RRT-NPS, AE-C, CCM**

UC Davis

**Laura Crotty Alexander, MD**

UC San Diego

**Millie Das, MD**

VA Palo Alto Health Care System  
Stanford University

**Oren Friedman, MD**

Cedars-Sinai Medical Center

**Nicholas Kolaitis, MD**

UC San Francisco

**Ryan Maves, MD**

Wake Forest University School of Medicine

**Michelle Moore, MD**

Kaiser Permanente Santa Clara

**Susan Murin, MD, MSc, MBA**

UC Davis

**Mark Nicolls, MD**

Stanford University

**Brandon Nokes, MD**

UC San Diego

**Justin Phillips, RCP, RRT-ACCS**

UC San Francisco

**Michelle Primeau, MD**

Sutter Health San Carlos

**Lekshmi Santhosh, MD, MA**

UC San Francisco

**Kathleen Sarmiento, MD, MPH**

San Francisco VA Health Care System  
UC San Francisco

**Leslie Seijo, MD**

UC San Francisco

**Dean Sheppard, MD**

UC San Francisco

**Gaurav Singh, MD, MPH**

VA Palo Alto Health Care System  
Stanford University

**Brian Smith, MSRC, RRT**

UC Davis

**Daniel Stemen, MSRS, RCP, RRT-ACCS, ECMOS**

University of Southern California

**Neeta Thakur, MD**

UC San Francisco

**Jose Vempilly, MD**

UC San Francisco at Fresno

**Rafael Zuzuarregui, MD**

San Francisco VA Health Care System  
UC San Francisco



## HOTEL ACCOMMODATIONS

CTS MARCH 2022 CONFERENCE



The California Thoracic Society has secured a limited number of rooms at the Portola Hotel & Spa located at:

### **Portola Hotel & Spa**

Two Portola Plaza  
Monterey, CA 93940

**For check-in on Thursday March 10, 2022 and check-out on Sunday March 13, 2022, the room rate is \$229.00 per night plus taxes.**

Click on the following link to make your room reservations:

<https://book.passkey.com/go/CaThoracicSociety2022Conf>

If you prefer to call the Portola Hotel, dial 1-888-222-5851.

You must mention that you are attending the California Thoracic Society 2022 Conference to get the group rate.

**Thursday, March 10, 2022**

**7:00 pm – 8:30 pm**

**Meet & Greet Reception With Hors d'oeuvres and Mini-Presentation**

**Friday, March 11, 2022**

**FROM THE INTENSIVE CARE UNIT TO HOME AGAIN: LESSONS  
LEARNED FROM THE COVID-19 PANDEMIC**

**7:00 am – 8:00 am**

**Registration & Breakfast**

**8:00 am – 8:15 am**

**Welcome and Pre-Test**

*Kristina Kudelko, MD and Gaurav Singh, MD, MPH*

**8:15 am – 9:05 am**

**Update on Evidence-Based Therapies for COVID-19**

*Ryan Maves, MD*

*Keynote Speaker*

**9:05 am – 9:50 am**

**Unconventional and Advanced Modes of Ventilation and Proning**

*Krystal Craddock, MSRC, RRT, RRT-ACCS, RRT-NPS, AE-C, CCM and Justin Phillips, RCP, RRT-ACCS*

**9:50 am – 10:35 am**

**ECMO as Bridge to Recovery for Severe COVID-19**

*Oren Friedman, MD*

**10:35 am – 10:50 am**

**Break**

**10:50 am – 11:35 am**

**Lung Transplantation for Severe COVID-19**

*Nick Kolaitis, MD and Leslie Seijo, MD*

**11:35 am – 12:20 pm**

**Long COVID Pulmonary Management: Establishing Post-COVID-19  
Models of Care**

*Lekshmi Santhosh, MD, MA*

**12:20 pm – 1:20 pm**

**Lunch**

**PROGRAM**

CTS MARCH 2022 CONFERENCE

**1:20 pm – 2:20 pm**

**Hands-On Session: ICU Ventilators, Oxygen Delivery Devices, Manual  
and Self-Proning**

*Krystal Craddock, MSRC, RRT, RRT-ACCS, RRT-NPS, AE-C, CCM;  
Justin Phillips, RCP, RRT-ACCS; Daniel Stemen, MSRS, RCP, RRT-ACCS,  
ECMOS; Brian Smith, MSRC, RRT; and Emma Blackmon, PhD, RN, CCRN*

**ADVANCES IN LUNG CANCER DIAGNOSTIC AND THERAPEUTIC  
STRATEGIES**

**2:20 pm – 3:05 pm**

**Advances in Diagnosis and Staging**

*Harmeet Bedi, MD*

**3:05 pm – 3:50 pm**

**Molecular Testing and Targeted Therapies**

*Millie Das, MD*

**3:50 pm – 4:05pm**

**Break**

**4:05 pm – 4:50 pm**

**Palliation Therapies (Stents, Laser Therapy, Indwelling Pleural  
Catheters)**

*George Chaux, MD*

**4:50 pm – 5:00 pm**

**Post-Test and Adjourn**

*Kristina Kudelko, MD and Gaurav Singh, MD, MPH*

**5:30 pm – 7:30 pm**

**Trainee Poster Session (NON-CME)**

## Saturday, March 12, 2022

### UPDATE ON SLEEP DISORDERS

7:00 am – 8:00 am

Registration & Breakfast

8:00 am – 8:15 am

Welcome and Pre-Test

Gaurav Singh, MD, MPH and Kristina Kudelko, MD

8:15 am – 9:05 am

Sleep Testing and Models of Care in the Post-COVID-19 Era

Kathleen Sarmiento, MD, MPH

Keynote Speaker

9:05 am – 9:50 am

Alternatives to Positive Airway Pressure Therapy for Sleep Disordered Breathing

Robson Capasso, MD

9:50 am – 10:35 am

Advances in Pharmacotherapy for Disorders of Hypersomnia

Gaurav Singh, MD, MPH

10:35 am – 10:50 am

Break

10:50 am – 11:35 am

Insomnia Management Strategies

Michelle Primeau, MD

11:35 am – 12:20 pm

Restless Legs Syndrome Management

Rafael Zuzuarregui, MD

12:20 pm – 1:20 pm

Lunch

1:20 pm – 2:20 pm

Hands-On Sessions: Hypoglossal Nerve Stimulator for OSA, Neuromuscular Electrical Stimulation and Positional Sleep Therapy for OSA, Forehead Cooling for Insomnia and Actigraphy, Medical Devices for Restless Legs Syndrome

Gaurav Singh, MD, MPH; Brandon Nokes, MD; Michelle Cao, DO; Michelle Primeau, MD; Rafael Zuzuarregui, MD

### CLIMATE CHANGE AND ENVIRONMENTAL POLLUTION

2:20 pm – 3:05 pm

Wildfires and Effects on Obstructive Airways Diseases

Neeta Thakur, MD

3:05 pm – 3:50 pm

Climate Crisis: Impact on Lung and Overall Health

Jose Vempilly, MD

3:50 pm – 4:35 pm

Vaping: COVID-19 and More

Laura Crotty Alexander, MD

4:35 pm – 4:45 pm

Post-Test and Adjourn

Gaurav Singh, MD, MPH and Kristina Kudelko, MD

5:00 pm – 6:00 pm

Pandemic Career Development and Wellness Panel (NON-CME)

Moderators: Gaurav Singh, MD, MPH and Kristina Kudelko, MD

Panelists: Michelle Moore, MD; Susan Murin, MD, MSc, MBA; Mark Nicolls, MD; Dean Sheppard, MD

\*Available to view live via Zoom link for non-attendees

6:30 pm – 8:00 pm

Women In Pulmonary, Critical Care, and Sleep Medicine (NON-CME)

Moderator: Angela Wang, MD

## SUNDAY, MARCH 13, 2022

8:00 am – 9:00 am

NON-CME BREAKFAST PRESENTATION

# CALIFORNIA THORACIC SOCIETY ANNUAL EDUCATIONAL CONFERENCE

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## Three Ways to Register:

1. **On-Line:** [www.calthoracic.org](http://www.calthoracic.org) (Visa/MC/AMEX)
2. **By FAX:** 415-689-9027 (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)

## To join California Thoracic Society go to:

<https://calthoracic.org/membership/>

Costs are as follows:

Individual Membership/renewals for Physicians and Non-Physicians= \$135

Individual Membership for any respiratory professionals **in training** = \$75

Special group pricing is also available.

## Cancellations

Cancellations received before February 25, 2022 are subject to a \$75 cancellation fee. No refunds or cancellations after February 25, 2022. Substitute attendees are permitted. All cancellation requests must be made in writing and sent to: [info@calthoracic.org](mailto:info@calthoracic.org).



## COVID-19 Precautions:

To ensure the highest level of safety, and in keeping with American Thoracic Society meeting policies, CTS will require all attendees, including registrants, exhibitors, vendors, and hotel staff, to provide proof of being fully vaccinated as well as boosted (if eligible) as defined by the Centers for Disease Control and Prevention (<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html>) and below. The option to upload this information prior to the meeting will be available, but attendees may also provide it at the time of the meeting. In addition to the vaccination requirement, CTS will require on-site rapid antigen testing with an FDA-approved test for all attendees daily. A picture of the first test performed within 24 hours of the meeting should be provided upon arrival. Individuals who are not fully vaccinated and boosted if eligible, individuals who are sick or exhibit any active symptoms of COVID-19, or who test positive for COVID-19 will not be permitted to attend the meeting. Mandatory masking with N95 masks will also be enforced during the meeting. Cloth and surgical masks will not be permitted. **No exemptions from these policies will be allowed.** The policies are subject to change. Check the CTS website (<https://calthoracic.org>) for the most updated information. We encourage attendees to bring their own rapid antigen tests and N95 masks to the meeting.

For Pfizer or Moderna: The second vaccine dose of the primary series needs to be within 5 months of the meeting date; if > 5 months then booster with documentation is required.  
For J&J: The single vaccine dose needs to be within 2 months of the meeting date; if > 2 months then booster with documentation is required.  
Exemptions to vaccination will not be accepted. Vaccine requirements are subjected to change depending on county and state requirements.

		2 DAY (Friday AND Saturday)		1 DAY (Friday OR Saturday)	
		Before 2/18/2022	After 2/18/2022	Before 2/18/2022	After 2/18/2022
Physician	CTS Member	\$350	\$395	\$195	\$225
	Non-Member	\$495	\$550	\$340	\$370
Non-Physician	CTS Member	\$195	\$240	\$125	\$155
	Non-Member	\$340	\$385	\$270	\$300
In-training		\$150	\$175	\$100	\$125

## Registration Fees Register by FEBRUARY 18, 2022 to lock-in early-bird rates!

Name\*: \_\_\_\_\_

Degree\*: \_\_\_\_\_

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

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

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

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

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

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

## Please select the day(s) you plan to attend:

☐ 2 Day: Friday AND Saturday ☐ 1 Day: ☐ Friday OR ☐ Saturday

\*Required for each attendee

## Payment

☐ Check Enclosed (payable to California Thoracic Society)

Charge: ☐ Visa ☐ MasterCard ☐ AMEX

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

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

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

Billing address associated with card

Street: \_\_\_\_\_

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