

California Thoracic Society Annual Educational Conference

Pulmonary Physiology • Ventilator Management
Infectious Lung Diseases • Critical Care
Pulmonary Emboli • Hot Topics in Pulmonary

Thursday March 16, 2023 - Sunday March 19, 2023

Jointly Provided by:

The American Thoracic Society and the California Thoracic Society



Earn up to 12.75 CME/CEU Credits

6.25 Credits Available Friday/6.5 Credits Available Saturday

A Comprehensive Two Day Program For Pulmonologists, Critical Care Physicians, Internal Medicine Physicians, Hospitalists, Radiologists, Sleep Specialists, In-Training Fellows and Residents, Nurse Practitioners, Physician Assistants, Registered Nurses, Respiratory Therapists, Sleep Technologists, Pharmacists, and other healthcare professionals in the field of Pulmonary, Critical Care, and Sleep Medicine



Register Today



Accredited Continuing Education Statements

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) and is jointly provided by 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 12.75 AMA PRA Category 1 Credit(s)™.

Physicians should only claim credits commensurate with the extent of their participation in the activity.
Note: 6.25 CME credits available for Friday; 6.5 CME credits available for Saturday.

The California Thoracic Society is approved by the California Board of Registered Nursing
Provider #CEP599 for a total of 12.75 contact hours.

The course meets the requirements for CE for RCPs in California and is provided in cooperation with the California Society for Respiratory Care.

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 first addresses pulmonary physiology, including cardiopulmonary exercise testing, pulmonary function testing, and pediatric physiology. Next, we review ventilator management, including waveform interpretation, home ventilation, and insurance/DME issues. Finally, we review infectious diseases, including fungal infections, nontuberculous mycobacteria, and long COVID.

Saturday begins with updates on critical care, with a focus on palliative care, ethics, rehabilitation, nutrition, sedation, and delirium. Next, we discuss pulmonary embolism, including creation of a pulmonary embolism response team, interventional treatments, and chronic thromboembolic disease. Finally, we conclude with hot topics in pulmonary/critical care medicine, including expanded use of antifibrotics, biologics for asthma, and targeted cystic fibrosis therapies.

Target Audience

The program is designed for Pulmonologists, Critical Care Physicians, Internal Medicine Physicians, Hospitalists, Radiologists, Sleep Specialists, In-Training Fellows and Residents, Nurse Practitioners, Physician Assistants, Registered Nurses, Respiratory Therapists, Sleep Technologists, Pharmacists, and other healthcare professionals in the field of Pulmonary, Critical Care, and Sleep Medicine

Educational Objectives

- Describe current applications of cardiopulmonary exercise testing to clinical assessment and management of patients, and recognize the limitations of pulmonary function testing in evaluation of small airways disease
- Recognize the challenges of implementing and managing home ventilation, including indications, technical aspects, longitudinal assessment, and navigating insurance and durable medical equipment companies
- Identify appropriate diagnostic and therapeutic approaches for respiratory fungal and nontuberculous mycobacterial infections, as well as long COVID
- Describe the impact of palliative care, ethics, rehabilitation, nutrition, sedation, and delirium on the critically ill patient
- Implement strategies for treatment of pulmonary embolism, including creation of a pulmonary embolism response team and advanced interventional therapies
- Apply evidence based treatments for interstitial lung disease with expanded use of antifibrotics, asthma with biologic therapies, and cystic fibrosis with targeted therapies



California

Friday March 17, 2023

Pulmonary Physiology

8:00 am – 8:15 am - Introduction and Pre-Test Reminder

8:15 am – 9:00 am - Keynote - The New Frontier of Cardiopulmonary Exercise Testing

•William Stringer, MD (Harbor-UCLA)

9:00 am – 9:30 am - The Role of Race/Ethnicity in Interpreting Clinical Spirometry

•Aaron Baugh, MD (UC San Francisco)

9:30 am – 10:00 am - Crash Course on Pediatric Physiology for Adult Provider

•Diana Chen, MD (Stanford)

10:00 am - 10:10 am Question and Answer

10:10 am – 10:40 am Break

Ventilator Management

10:40 am – 11:10 am - What Do Those Lines Mean? Troubleshooting the Ventilator Waveform

•Justin Phillips, RRT (UC San Francisco)

11:10 am – 11:40 am - Outside the ICU - Home Non-Invasive and Invasive Device Management

•Jeremy Orr, MD (UC San Diego)

11:40 am – 12:10 pm - Denied Again - Navigating Approval from Insurance Companies and DME Barriers for Oxygen Delivery and Home Ventilation

•Krystal Craddock, RRT (UC Davis)

12:10 pm – 12:20 pm Question and Answer

12:20 – 12:30 pm – Awards Ceremony

12:30 pm – 1:30 pm Lunch

Hands-On Session

1:30 pm – 2:30 pm

•**Remote Spirometry** - William Auyeung, MD (Stanford)

•**CPET Bike Equipment and Interpretation** - William Stringer, MD (Harbor-UCLA)

•**Secretion Clearance 1** - Meghan Marmor, MD (Stanford)

•**Secretion Clearance 2** - Justin Phillips, RRT (UC San Francisco)

2:30 pm – 3:00 pm Break

Infectious Diseases

3:00 pm – 3:30 pm - Infectious Diseases are Fun-gi: Update on Fungal Lung Disease and Coccidioidomycosis

•George Thompson, MD (UC Davis)

3:30 pm – 4:00 pm - The Conundrum of Treatment: Update on Pulmonary NTM Guidelines

•Shoshana Zha, MD PhD (UC San Francisco)

4:00 pm – 4:30 pm - Long COVID is No Joke: Multidisciplinary Approach to Management of Long COVID

•Nisha Viswanathan, MD (UC Los Angeles)

4:30 pm – 4:40 pm Question and Answer

4:40 pm – 5:10 pm Break

Non-CME

5:10 pm – 6:00 pm Well-Being in Pulmonary, Critical Care, and Sleep Medicine (NON-CME)

Ni-Cheng Liang, MD (Scripps Health)

6:00 pm – 7:00 pm Women in Pulmonary, Critical Care, and Sleep Medicine (NON-CME)

Ni-Cheng Liang, MD (Scripps Health)



California

Saturday March 18, 2023

Update on Critical Care

8:00 am – 8:10 am - Introduction and Pre-Test

8:10 am – 8:55 am - Keynote - How to Decide Who Decides: Surrogate Decision Making in California ICUs

• David Chooljian, MD (Loma Linda)

8:55 am – 9:25 am - Rehabilitation and Nutrition in the Intensive Care Unit

• Isabel Pedraza, MD (Cedars-Sinai)

9:25 am – 9:55 am - Sedation and Delirium in the Intensive Care Unit

• Javier Lorenzo, MD (Stanford)

9:55 am – 10:05 am Question and Answer

10:05 am – 10:30 am Break

Pulmonary Embolism

10:30 am – 11:00 am - Creating a Pulmonary Embolism Response Team

• Janine Vintch, MD & Srikanth Reddi, MD (Harbor-UCLA)

11:00 am – 11:30 am - Interventional Modalities for Acute Pulmonary Embolism

• Jemianne Bautista, MD (UCSF)

11:30 am – 12:00 pm - The Current State of CTED/CTEPH and the Post Pulmonary Embolism Syndrome

• Richard Channick, MD (UC Los Angeles)

12:00 pm – 12:10 pm - Pro: Catheter Directed Therapy Should be Used for Intermediate-High Risk PE

• Jemianne Bautista, MD (UC San Francisco)

12:10 pm – 12:20 pm - Con: Catheter Directed Therapy Should Not be Used for Intermediate-High Risk PE

• Richard Channick, MD (UC Los Angeles)

12:20 pm – 12:30 pm Question and Answer

12:30 pm – 1:30 pm Lunch

Hands-On Session

1:30 pm – 2:30 pm

• **New Generation PAP Devices for OSA** - Chirag Pandya, MD (Stanford)

• **Home Ventilators and Mouthpiece Ventilation** - Michelle Cao, DO (Stanford), Kirat Gill, MD (Stanford) and Christal Hawkins, RRT (UC San Diego)

• **Oxygen Delivery** - Chris Garvey, FNP MSN (UC San Francisco) & Krystal Craddock, RRT (UC Davis)

• **Ventilator Waveforms** - Brooks Kuhn, MD (UC Davis)

2:30 pm – 3:00 pm Break

Hot topics in Pulmonary: From One Size Fits All to Targeted Therapy

3:00 pm – 3:30 pm - Update on Antifibrotics for Interstitial Lung Disease

• Brett Ley, MD (Kaiser San Francisco)

3:30 pm – 4:00 pm - Update on Biologic Therapy for Asthma

• Lauren Eggert, MD (Stanford)

4:00 pm – 4:30 pm - Update on Targeted Therapy for Cystic Fibrosis

• Andrea Glassberg, MD (Kaiser Sacramento) & Alica Mirza, MD (Stanford)

4:30 pm – 4:40 pm Question and Answer

4:40 pm – 5:10 pm Break

Non-CME

5:10 pm – 7:30 pm Poster Session



California



Non-CME Events

Thursday March 16, 2023

7:00 pm – 8:30 pm - Meet and Greet Reception - Who's in Your Waiting Room?

Jamie Rutland, MD (CEO and Medical Director Rutland Medical Group/West Coast Lung Newport Beach)

Sponsored by Sanofi REGENERON

Friday March 17, 2023

7:00 am – 7:45 am Non-CME Breakfast - Looking from the top down: A New Understanding of Epithelial Alarmins in Asthma

Matthew Drake, MD - Sponsored by ASTRAZENECA/AMGEN

5:10 pm – 6:00 pm Well-Being in Pulmonary, Critical Care, and Sleep Medicine

Ni-Cheng Liang, MD (Scripps Health) - Sponsored by The California Thoracic Society

6:00 pm – 7:00 pm Women in Pulmonary, Critical Care, and Sleep Medicine

Ni-Cheng Liang, MD (Scripps Health) - Sponsored by REGENERON

Saturday March 18, 2023

7:00 am – 7:45 am Non-CME Breakfast - An Objective Tool for HFNC Assessments

Naomi Bugayong, MSRC, RRT, RRT-ACCS, AE-C - Sponsored by FISHER & PAYKEL HEALTHCARE

5:10 pm – 7:30 pm Fellows/Multidisciplinary Poster Session - Sponsored by the California Thoracic Society

Sunday March 19, 2023

8:30 am – 9:30 am Non-CME Breakfast - Clinical Implications of Uncontrolled Type 2 Inflammation in Asthma and COPD

Reynold Panettieri Jr., MD - Sponsored by Sanofi REGENERON



California



Fellow/Multidisciplinary Poster Competition

Competition information

The California Thoracic Society (CTS) poster competition is open to all trainees and early career professionals, including residents, fellows, nurses/NPs, and respiratory therapists who reside in the state of California. We are calling for both scientific research abstracts and case reports pertaining to pulmonary medicine, thoracic imaging, thoracic surgery, critical care, or sleep medicine. If you have a great case or research abstract you are submitting to ATS, please feel free to submit your abstract to the CTS poster competition- you can present the same case/research at both conferences.

Please submit your abstract or case report by February 16, 2023 at 5:00 pm PDT by completing the on-line Submission Form. Accepted abstracts will be notified after March 3, 2023.

Industry posters are allowed for an additional sponsorship fee - They will not participate in the competition and will not get the abstract registration discount.

Submission link

<https://calthoracic.org/2023-poster-abstract-submission/>

Awards

President's Award - Best Overall Abstract
Outstanding Research Abstract
Outstanding Critical Care Case Report
Outstanding Pulmonary Case Report

Poster Information

- Recommended Size: 48"w x 36"h (122cm w x 91cm h) - You can use the same poster for CTS and ATS
- Please plan to hang your poster up by 4:30 pm on Saturday March 18, 2023
- Location is in the Portola Room (in the lobby) of the Portola Hotel and Spa
- All presenters must be registered for the conference and trainee presenters receive discounted registration
- We will provide tape to affix your posters to the poster boards

Registration

Abstract presenters are required to register for the main conference and are encouraged to attend. Presenters will be given a discounted registration fee of \$65, which covers the entire conference.



California

Faculty

Aaron Baugh, MD (UC San Francisco)
Chris Garvey, FNP MSN (UC San Francisco)
Jemianne Bautista, MD (UC San Francisco)
Justin Phillips, RRT (UC San Francisco)
Shoshana Zha, MD PhD (UC San Francisco)
Chirag Pandya, MD (Stanford)
Diana Chen, MD (Stanford)
Javier Lorenzo, MD (Stanford)
Kirat Gill, MD (Stanford)
Lauren Eggert, MD (Stanford)
Michelle Cao, DO (Stanford)
Meghan Marmor, MD (Stanford)
Alicia Mirza, MD (Stanford)
William Auyeung, MD (Stanford)
David Chooljian, MD (Loma Linda)
Janine Vintch, MD (Harbor-UCLA)
Srikanth Reddi, MD (Harbor-UCLA)
William Stringer, MD (Harbor-UCLA)
Christal Hawkins, RRT (UC San Diego)
Jeremy Orr, MD (UC San Diego)
Isabel Pedraza, MD (Cedars-Sinai)
Nisha Viswanathan, MD (UC Los Angeles)
Richard Channick, MD (UC Los Angeles)
Brooks Kuhn, MD MAS (UC Davis)
George Thompson, MD (UC Davis)
Krystal Craddock, RRT (UC Davis)
Andrea Glassberg, MD (Kaiser Sacramento)
Brett Ley, MD (Kaiser San Francisco)

Planning Committee

Conference Chairs

Gaurav Singh, MD (Palo Alto VA/Stanford)
Nicholas Kolaitis, MD MAS (UC San Francisco)

Committee

Shazia Jamil, MD (Scripps Clinic)
Jessica Goggin PhD, MAS, RN (UC San Diego)
Krystal Craddock, MSRC, RRT (UC Davis)
Huawei (Katie) Dong, MD (UC Irvine)
Tyronda Elliot, MD (Highland Hospital)
Yu Kuang (Julie) Lai, MD (Stanford University)
May Lee, MD (USC)
Brett Ley, MD (Kaiser San Francisco)
Brandon Nokes, MD (UC San Diego)
Justin Phillips, RRT (ZSFG/UC San Francisco)
Kristin Schwab, MD (UC Los Angeles)
Nicholas Stollenwerk, MD (UC Davis)
Janine Vintch, MD (Harbor-UCLA)
Angela Wang, MD (UC San Diego)



Hotel Accommodations

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

Portola Hotel & Spa
Two Portola Plaza
Monterey, CA 93940

For check-in on Thursday March 17, 2023 and check-out on Sunday March 19, 2023 the room rate is \$235.00 per night plus taxes.

Click on the following link to make your room reservations:
<https://book.paskey.com/go/CTS032023Conf>

If you prefer to call the Portola Hotel, dial 1-866-711-1734.

Mention that you are attending the California Thoracic Society Conference to get the group rate.



California

COVID-19 Precautions

To ensure the highest level of safety, and in keeping with American Thoracic Society meeting policies, the California Thoracic Society is requiring masking while in the meeting. This will be required of all attendees, including registrants, exhibitors, and vendors.

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.



Job Board

Are you looking for a job in the field of Pulmonary, Critical Care, or Sleep Medicine?
Are you looking to hire someone for your open position?

Check out the California Thoracic Society Job Board.

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

Posting on the CTS Job Board and adding the National Healthcare Career Network Posting will post your job to CTS, ATS, and many other professional societies.



California

Become a Member

CTS membership is open to anyone interested in lung health: MDs, DOs, PhDs, RNs with advanced training, RCPs, CPTs, RPTs, PFTs, RPSGTs, and AE-Cs. Join today (<https://calthoracic.org/active-membership-sign-up/>).

Individual Memberships

Individual Membership - \$135

Small Group Membership (Up to 5 physicians) - \$350

Associate Membership (Health Care Professionals in training, fellows, interns, residents) - \$75

Emeritus Membership (Age of 70+ and retired) - \$50

Institutional Memberships

Platinum Plus - \$5000 - Unlimited Memberships for Faculty/Attending Physicians, Program Directors, associates and trainees. Includes SIX registrations for the 2023 in-person Annual Conference. Includes 50% off registration for the 2023 in-person Annual Conference for all trainees.

Platinum - \$2500 - Up to 15 individual Memberships for Faculty/Attending Physicians, Program Directors and associates. Unlimited memberships for trainees. Includes THREE registrations for the 2023 in-person Annual Conference. Includes 50% off registration for the 2023 in-person Annual Conference for all trainees.

Physician Group Practice Level - \$495 - Up to 6 individuals. (additional individuals at prorated rate)

Thank You to our Institutional Members



UC San Diego

UC DAVIS
UNIVERSITY OF CALIFORNIA



UCSF Fresno

LOMA LINDA
UNIVERSITY

Thank You to the following companies for their generous support of in-kind equipment donations used in our Hands-On teaching sessions

ABM Respiratory Care - MGC Diagnostics - Caire Inc. - Philips Respironics- Draeger - Resmed
Drive Medical - Vyair Medical - Hillrom/Baxter - ZEPHYRx - Inogen



California

Three Ways to Register

1. **On-Line:** <https://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)

Pricing

 California Thoracic Society ATS Chapter		2 Day Registration		1 day Registration	
		Early Bird	Late Registration	Early Bird	Late Registration
Physician	CTS Member	\$350	\$395	\$195	\$225
	Non-Member	\$520	\$565	\$365	\$395
Non-Physician	CTS Member	\$195	\$240	\$125	\$155
	Non-Member	\$365	\$410	\$295	\$325
In Training	CTS Member/from an Institutional Member	\$65	\$75	\$65	\$75
	Non-Member	\$130	\$150	\$130	\$150
Poster Session Discount	Abstract Presenter	\$65	\$65	\$65	\$65

Registration Form

Registration Fees - Register by 2/16/2023 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:

☐ Friday ☐ 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: _____

Register Today



California