ATS EARLY CAREER PROFESSIONAL EVENTS

2019 Educational Outcomes Report
AMERICAN THORACIC SOCIETY

INTERNATIONAL CONFERENCE

May 15 - May 20, 2020
Philadelphia, PA

conference.thoracic.org
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Enhancing and building programs for early career professionals continues to be an area of focus at the ATS. To prepare the next generation of learners in pulmonary, critical care and sleep medicine, the ATS must stay abreast of the latest technologies, scientific discovery, medical information and knowledge in the field.

At the 2019 International Conference in Dallas Texas, the ATS saw the largest gathering ever of early career attendees and teachers at ATS programs – i.e., Student Scholars, Resident Boot Camp, Fellows Track Symposium and Fellow to Faculty Boot Camp. The Dallas conference saw over:

- 500 early career learners – i.e. medical students, residents, fellows and junior faculty
- 200 faculty teachers of all levels imparting knowledge and skills in small and large learning opportunities

As of May 2018, trainee membership makes up 20 percent of the overall ATS membership. This is a fact that the ATS is very proud of and is committed to improve upon every day.
Student Scholars Program

Background

The ATS Student Scholars Program allows for a select group of motivated medical, graduate, and nursing students to attend the ATS 2019 International Conference in Dallas, Texas. In 2019, the ATS Student Scholars Program accepted 68 students of which 19 were from international countries and all from 64 different medical students.

The Student Scholars Program

- Exposes medical, graduate, and nursing students from the local area to the excitement of the scientific, translational, and clinical information presented at the ATS International Conference
- Offers compelling reasons for students to consider applying to an adult or pediatric pulmonary, critical care or sleep program
- Increases workforce numbers in clinical and research careers in pulmonary, critical care, and sleep medicine

What to Expect

- Opportunity to present exciting research in a Three Minute Thesis (3MT®) competition cultivating students’ academic, presentation and research communication skills
- Partnership with a mentor for the duration of the conference
- Encouraged to attend key conference activities, such as ATS Public Advisory Roundtable, Experts Patient and Family Forum, the Center for Career Development and the Opening Ceremony and President’s Symposium

Program Outcomes

- 100% of students found the program to be “excellent or good”

Leadership Team

Rosemary Adamson, MBBS; Donna Appell, RN; Megan Ballinger, PhD; Viren Kaul, MD; Allison Light, PhD; Jennifer McCallister, MD, ATSF; Jeremy B. Richards, MD, MA, ATSF; Sushma Cribbs, MD, MSCR, ATSF.
The Student Scholars Program helped further solidify my interest in going into pulmonary medicine for my career! ATS is the best meeting I’ve ever been to and Student Scholars consistently bolsters that experience. I love meeting peers who are also passionate about the lungs.”

“The activities provided help me feel a part of the conference in a way that allowed me to attend other meetings outside of the student scholars program with confidence instead of retreating to my hotel.”

“Meeting other medical students interested in PCCM taught me different avenues I can take in PCCM and helped me to network a potential growing community in PCCM.”
Resident Boot Camp Program

Background

The ATS Resident Boot Camp program is a two-day course for internal medicine and pediatric residents (as well as chief residents and hospitalists). The Boot Camp was created to better equip incoming fellows with the information, skills and confidence needed to flourish during day one of fellowship. In 2019, the Boot Camp recruited:

- 118 adult track attendees
- 32 pediatric track attendees
- 10 international track attendees
- 33 pediatric faculty
- 124 adult faculty

Objectives

Participation in the Boot Camp allows attendees to:

1. Acquire knowledge of basic techniques and principles of mechanical ventilation, airway management, and bronchoscopy (indications, techniques, and limitations).
2. Attain skills in vascular, thoracic, and pleural ultrasound image acquisition for ultrasound-guided procedures and diagnosis (pneumothorax, thoracentesis, line placement, right ventricular dilation/dysfunction, volume status).
3. Improve knowledge base in cardiopulmonary physiology.
4. Develop strategies to successfully manage common clinical emergencies encountered as a fellow.

Curriculum Design

The Boot Camp includes expert-led, small breakout, and hands-on workshops. To facilitate near-peer learning, as well as to train the next generation of educators, most breakout and hands-on sessions are taught by senior and junior faculty known to be experts in the field, paired with fellows serving as apprentice educators. The fellows led these sessions with assistance and direction provided by the faculty co-teacher. In 2015, the ATS RBC was expanded to include a pediatric pulmonary and critical care-specific curriculum.

Program Outcomes

Topics showing a >10% net improvement between pre-test and post-test scores include:

- Airway 101 (Adult Track)
- Bronchoscopy 101 (Adult Track)
- Difficult Airway (Adult Track)
- How to Run a Code (Adult Track)

This 2019 ATS Resident Boot Camp was supported by:

Educational Grant Support:
- Olympus Corporation of the Americas.

In-Kind Support:

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In-Kind Support:
Program Outcomes (continued)

- Pulmonary Function Testing (Adult Track)
- How to Run a Code (International RBC)
- Pulmonary Consults (International RBC)
- Pulmonary Function Testing (International Track)
- Airway 101 (Pediatric Track)
- ECMO (Pediatric Track)
- Pulmonary Physiology (Pediatric Track)

International Resident Boot Camp

In 2019, the Boot Camp expanded its curriculum to include an International track. The RBC leadership reached out to five ATS sister-societies to recruit up to ten International Resident Boot Camp attendees. Two members of each of the following participated in the 2019 IRBC: Brazilian Thoracic Society; Asian Pacific Society of Respirology (one attendee from the Philippines, one from Singapore); Japanese Respiratory Society; Saudi Thoracic Society; and Latin American Thoracic Association (one attendee from Uruguay, one from Colombia).

Leadership Team

Geoff Connors, MD; Nirav Shah, MD; Deb Liptzin, MD; Ryan Good, MD; Anna Brady, MD; Samir Makani, MD; Laura Crotty Alexander, MD; Kristin Burkart, MD, MSc; Matt Drake, MD; Isabel Pedraza, MD; Daniel Jamieson, MD; May Lee, MD; Trish Kritek, MD, EdM.
Resident Boot Camp Program

“Unbelievable. This was an incredible experience where we had small group leaders who are the top educators in their fields. The explanations for physiology and interpretation of results as well as hands on instructions were the best I have ever been exposed to. Thank you for putting this together.”

“So much learning in just 2 days! I am very thankful for the opportunity to participate. All the sessions were high yield.”

“The ATS Resident Boot Camp helped me to feel more confident about starting fellowship, provided a good framework for things I need to focus on learning and hopefully eventually mastering during my fellowship and career.”
Fellows Track Symposium

Background

The ATS Fellows Track Symposium (FTS) began over 20 years ago as a grassroots program to provide fellows with a rigorous foundation that supports critical learning and self-reflective educational pathways. The FTS has grown to provide 225 pulmonary, critical care and sleep fellows in both adult and pediatric medicine with the foundation to not only improve patient outcomes, but to prepare them with a comprehensive introduction to the ATS 2019 International Conference.

FTS participants had the opportunity to interact with faculty speakers and other leading experts in pulmonary, critical care and sleep medicine in informal settings during meals and breaks, allowing fellows to ask questions about the lectures they attended, as well as to obtain guidance and advice.

Objectives

The FTS program allows fellows to:

• Maximize their educational experience of pulmonary, critical care and sleep at ATS 2019
• Synthesize and discuss current and emerging trends in the pathogenesis, diagnosis and treatment of pulmonary, critical care and sleep medicine
• Integrate up-to-date, cutting-edge information into the diagnosis and management of clinical care pathways in pulmonary, critical care and sleep medicine
• Interpret clinical implications of case studies reviewed during expert panel discussions
• Utilize enhanced core competencies in pulmonary, critical care and sleep medicine to improve patient care
• Apply new skills, standard-of-care clinical behaviors and evidence based best practices in their daily medical practice

Program Outcomes

• 99% attendees ranked the content of the program as “excellent or good”
• 100% attendees felt the program met its objectives
• Representation from 180 ACGME-accredited, U.S. based training programs

Leadership Team

Deborah Shure, MD, Master FCCP; Atul Mehta, MBBS, ATSF; Jakob McSparron, MD; Jeremy Richards, MD, MA, ATSF; Shirin Shafazand, MD, MS; James Chmiel, MD, MPH, ATSF; D.B. Sanders, MD, MSc

The ATS gratefully acknowledges educational grants from Actelion Pharmaceuticals US, Inc., AstraZeneca LP, Boehringer Ingelheim Pharmaceuticals, Inc., Genentech, Inc., Olympus Corporation of the Americas, and Vertex Pharmaceuticals, Inc. in support of the Fellows Track Symposium.

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Travel Scholarships are provided solely by the American Thoracic Society.
FTS Quick Facts

FELLOWS WHO ATTENDED:

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100% attendees felt the program “met its objectives”

• Representation from 180 ACGME-accredited, U.S.-based training programs

225 Pulmonary & Critical Care Fellows
The Fellows Track Symposium provided me with an opportunity to meet with and engage with my peers in a healthy discussion on various topics that span the breadth of pulmonary, critical care and sleep medicine. I was also able to gain clinical pearls and innovative methods to pass them along to my co-fellows and residents on my return from ATS.

One of the best courses I have taken, with time to meet other fellows and attendings for expert knowledge. Additionally, I loved that it was interactive with questions. To be able to have a class on just how we learn and how can we present this information was amazing.

When I applied for the 2019 Fellows Track Symposium at the ATS International Conference, my expectations were that I would get an overview of both pulmonary and critical care practices and learn about up and coming studies ongoing in both fields. What I experienced was much more. We discussed current concepts in both fields.
Objectives
Participants will be able to:

- Address specific topics and challenges related to the transition to independent careers as clinicians, clinician educators, physician-scientists and basic science researchers.
- Describe strategies to address challenges and opportunities encountered in academic medical settings for early career faculty.
- Employ specific skills not necessarily taught during fellowship or postdoctoral training, but necessary for success as faculty, such as:
  - leadership and teamwork skills for attending physicians
  - specific skills and strategies for transitioning to independent clinical practice
  - specific skills and strategies to transitioning to independent research activities
  - developing teaching skills as a faculty member
  - time management skills
  - didactic and hands-on sessions about best practices in coding and billing
  - balancing clinical duties, organizational service, educational opportunities and research endeavors
  - how to get involved in the ATS to support career development and professional growth

Program Outcomes

- 85% of participants rated the Bootcamp's value as excellent or good
- 89% of participants reported that the Bootcamp covered “most” or “all” of the topics they were hoping it would cover
- All participants in the 2019 Bootcamp indicated an interest in remaining engaged with ATS and attending ATS 2020.

Background
The Fellow to Faculty Boot Camp is a two-day course covering specific knowledge and skills for the often-difficult transition from fellowship and post-doctoral training to unsupervised practice as clinical and/or research faculty. The Fellow to Faculty Boot Camp is intended for fellows in training, including clinical pulmonary and critical care medicine fellows as well as post-doctoral fellows who are within a year from transitioning to their terminal faculty position.
Program Outcomes (continued)

The 2019 Fellow to Faculty (FTF) Bootcamp included thirty participants. Nearly all participants (97%) had previously attended an ATS international conference. Most participants were clinical fellows (70%); there were also postdoctoral fellows (10%) and junior faculty (20%). The largest proportion of participants were on the research or tenure track (43%); also represented were clinician-educators (33%) and clinicians (23%). A majority of participants were specialists in adult medicine or research (85%), and pediatric specialists also participated (15%). 10% of participants specialized in Sleep Medicine.

Leadership Team
Sushma Cribbs, MD, MSCR, ATSF; Megan Ballinger, PhD

“I think the Fellow to Faculty Bootcamp should be part of ATS in the coming years.”

“I hope this Bootcamp continues to grow and thrive at ATS, as I am sure more new faculty would love the opportunity participate. I hope many years down the line I am able to establish myself to perhaps even contribute to the Bootcamp as well! Thank you for selecting me!”

“Thank you so much for organizing this boot camp. Well-done job.”
Background

Over the past several years, the attendance at ATS early career live events such as the Resident Boot Camp and Fellows Track Symposium have reached maximum capacity resulting in long wait lists. To expand some of these educational opportunities outside of the live event, the ATS Virtual Network was created.

The Virtual Network includes educational content captured through webinars, podcasts, Facebook Live and onsite recordings. This virtual content provides a highlight of some of the lectures presented at the early career live courses as well as important topics of interest for incoming pulmonary, critical care and sleep fellows discussed in the Center for Career Development.

2019 Virtual Content

- **Gadgets and Gears** - Dr. Isabel Pedraza, Cedars Sinai
- **Basic Lung Physiology** - Dr. Thomas Saba, University of Michigan
- **Welcome to the ATS** - Dr. Isabel Pedraza, Cedars Sinai, and Dr. Geoff Connors, University of Colorado
- **Common Pulmonary Consults** - Dr. Avi Cooper, The Ohio State University, slides prepared by Dr. Jennifer McCallister, The Ohio State University
- **Inpatient Emergencies: How to Run a Code** - Dr. Viren Kaul, Crouse Hospital/SUNY Upstate Medical University, and Dr. Lucas Kimmig, U of Chicago, with slides by Dr. Tisha Wang, UCLA
- **Pulmonary Arterial (PA) Catheterization and Waveforms** - Dr. John Parks, The Mayo Clinic
- **PFT Interpretation** - Dr. Tristan Huie, National Jewish
- **Online ATS Content to Help During Fellowship** - Dr. Laura E. Crotty Alexander, University of California San Diego (UCSD) and VASDHS
- **ICU Emergencies** - Dr. Andrew Luks, The University of Washington
- **How to Read a Chest CT: Key Cases and Pearls** - Dr. Brent Little, Massachusetts General Hospital
- **Tips for Succeeding as a New Fellow** - Dr. Laura E. Crotty Alexander, University of California San Diego (UCSD) and VASDHS, and Dr. Isabel Pedraza, UCLA
- **Pediatric Chronic Ventilation** - Dr. Christopher D. Baker, University of Colorado
- **Microskills for Teaching in Clinical Settings** - Dr. Jeremy B. Richards, Beth Israel Deaconess Medical Center
- **Chronic Ventilation for Type 2 Severe Bronchopulmonary Dysplasia** - Dr. Christopher D. Baker, University of Colorado
2019 Virtual content (continued)

To access the ATS Virtual Network, please visit: https://www.thoracic.org/professionals/career-development/ats-virtual-network/ and log in with your ATS username and password. If you do not have an ATS member ID, you will be prompted to create one upon accessing this site.

Leadership Team
Laura Crotty Alexander, MD; Isabel Pedraza, MD; and Viren Kaul, MD.

Outcomes
Since launching in August 2019, the Virtual Network has already become a well-used service. With over 2,000 clicks as of September 2019, the Virtual Network is successfully providing content for those unable to attend the live programs. The Virtual Network will continue to be offered in future years after each conference. Be sure to look out for the 2020 content after ATS 2020!
Philadelphia PA / May 15 – 16, 2020

Registration for the 2020 ATS Early Career Professionals programs will open in December 2019. To learn more, visit: https://conference.thoracic.org/program/early-career-professionals/

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How to Get Involved

On behalf of the Society, we would like to personally welcome you to our ATS Community – a professional society of more than 16,000 physicians, scientists, nurses and allied healthcare focused on adult and pediatric pulmonology, critical care and sleep medicine. We believe that the ATS can serve as your professional home as you begin or continue on with your career. We also hope this section will give you some ideas on how you can become more active within the organization.

Why get involved in the ATS?

As an ATS member, you can have a direct impact on pulmonary, critical care and sleep medicine both nationally and internationally. Active members help the Society to develop statements and guidelines, create new educational programs, prioritize content for existing activities and guide the political voice of the ATS. Belonging to the ATS will also give you access to an outstanding networking system, which is valuable for research collaborations, clinical consultations, mentoring and employment opportunities. The ATS needs the active input of its members to excel and improve. ATS leaders are actively soliciting the voice of junior members, so the best time to get involved is now!

Join an ATS Committee!

Committees are appointed groups that shape and carry out the ATS’s many initiatives. The Society’s president-elect appoints new committee members in the months preceding each International Conference. If you have an interest or special skill that you feel would benefit the work of a particular ATS committee, please let us know by completing a short form here: https://www.thoracic.org/members/committees/get-involved-in-committees.php.

The president-elect will review and assign you to the appropriate committee.
Join an ATS Assembly or a Section of the ATS!

Assemblies are subdivisions of the Society composed of members and affiliates with like interests within the broad fields of respiratory disease and critical care medicine. The purpose of an assembly is to improve the collection, interpretation, and dissemination of information, improve communication among the members, and participate in the planning of the International Conference. Assemblies are also responsible for creating and updating ATS Statements and Position Papers. Each ATS member may choose to join one primary assembly and up to two secondary assemblies. The 14 ATS Assemblies and three sections are at the heart of the Society's mission and provide a great entry point to the organization for early career professionals. Among other activities, the Society’s 14 assemblies are responsible for driving the programming and content of the annual International Conference. One of the easiest ways to get involved is to attend the annual meeting of the assembly or assemblies that you feel best fit your clinical and research interests. We strongly encourage you to attend an annual meeting, as it will give you the chance to meet the assembly chair in-person. If you are interested in becoming involved or would like to learn more about the Assemblies and Sections, please click here: https://www.thoracic.org/members/assemblies/.
ATS EARLY CAREER PROFESSIONAL EVENTS

2019 Educational Outcomes Report

For more information on ATS Fellow Programs, please contact Rebecca Fisch at fellows@thoracic.org

The 2020 ECP Programs will be open for applications in early December. Applications close mid-February. Please visit our conference page for more information:

For additional resources, visit the Career Development Center