

# University of Colorado Section of Pediatric Pulmonary and Sleep Medicine



Children's Hospital Colorado  
Here, it's different.™



## Program Aims

1

Provide outstanding clinical and procedural training.

2

Provide exceptional opportunities for research to prepare for successful academic careers.

3

Establish a tailored career development plan to guide fellows.

4

Teach trainees strategies to maintain wellness, resilience, and promote DEI.



## Program Highlights

- ACGME Approved
- 30+ year history of training fellows
- Trained over 70 pediatric pulmonologists
- Retains one of the largest pediatric pulmonary sections in the country



# Fellowship Program Overview

- University of Colorado: One of the top 20 research universities
- CHCO - One of the top 10 Children's Hospitals
- Nationally recognized, accessible, committed faculty
- Regional center with a large diverse referral area
- National leader in pulmonary & sleep medicine
- Long track record of training successful fellows





# Pulmonary Fellowship Leadership



**Robin Deterding, MD**

Section Head

Role: Meet with fellows annually, career development, mentoring



**Mark Brown, MD**

Medical Director

Role: Mentoring and general fellow support



**Stacey Martiniano, MD, MSCS**

Fellowship Director

Role: Fellowship administrative duties, fellow evaluations, focus on sleep relationship to pulmonary fellowship



**Edith Zemanick, MD**

*Research Mentorship*

Role: Reviews research goals and objectives, helps with mentors



**Paul Stillwell, MD**

*Educational Mentorship*

Role: Clinical teaching, Western States Conference, and help with case presentation & abstract submission

**Fellowship Advisory Team**

Role: Clinical, peer, and career mentorship

# Fellowship Advisory Team

**Role: Provide personal and career mentorship to fellows, facilitate introductions to other BI members as needed**



Emily  
DeBoer



Amanda  
Messinger



Paul  
Houin



Stephen  
Hawkins



Heather  
Hoch



Jordana  
Hoppe



Ben  
Hughes

- An advisor and a fellow will meet roughly 4 times a year in an informal manner to discuss any needs the fellow has
- Advisors can be on an SOC at the discretion of the fellow and primary mentor
- Advisors will provide feedback to Clinical Competency Committee and annual faculty meeting discussions
- Faculty advisors will meet twice a year to discuss the overall fellowship and report to leadership of successes and challenges observed

# Faculty

- ✓ 29 MD/DO Pulmonary & Sleep faculty in the section
- ✓ Additional 15 APPs in section

## Special clinical programs:

- Cystic Fibrosis
- Interstitial Lung Disease
- Sleep Medicine
- Asthma
- Aerodigestive
- Primary Ciliary Dyskinesia
- Pulmonary Hypertension
- Trach/Vent

The overall Department of Pediatrics at the University of Colorado School of Medicine holds the distinction of ranking #1 in the country for public institutions with the highest NIH Funding.

- Our faculty currently have over \$10 Million in research funding
- Junior faculty have more than \$1 Million in funding





## Procedural Training

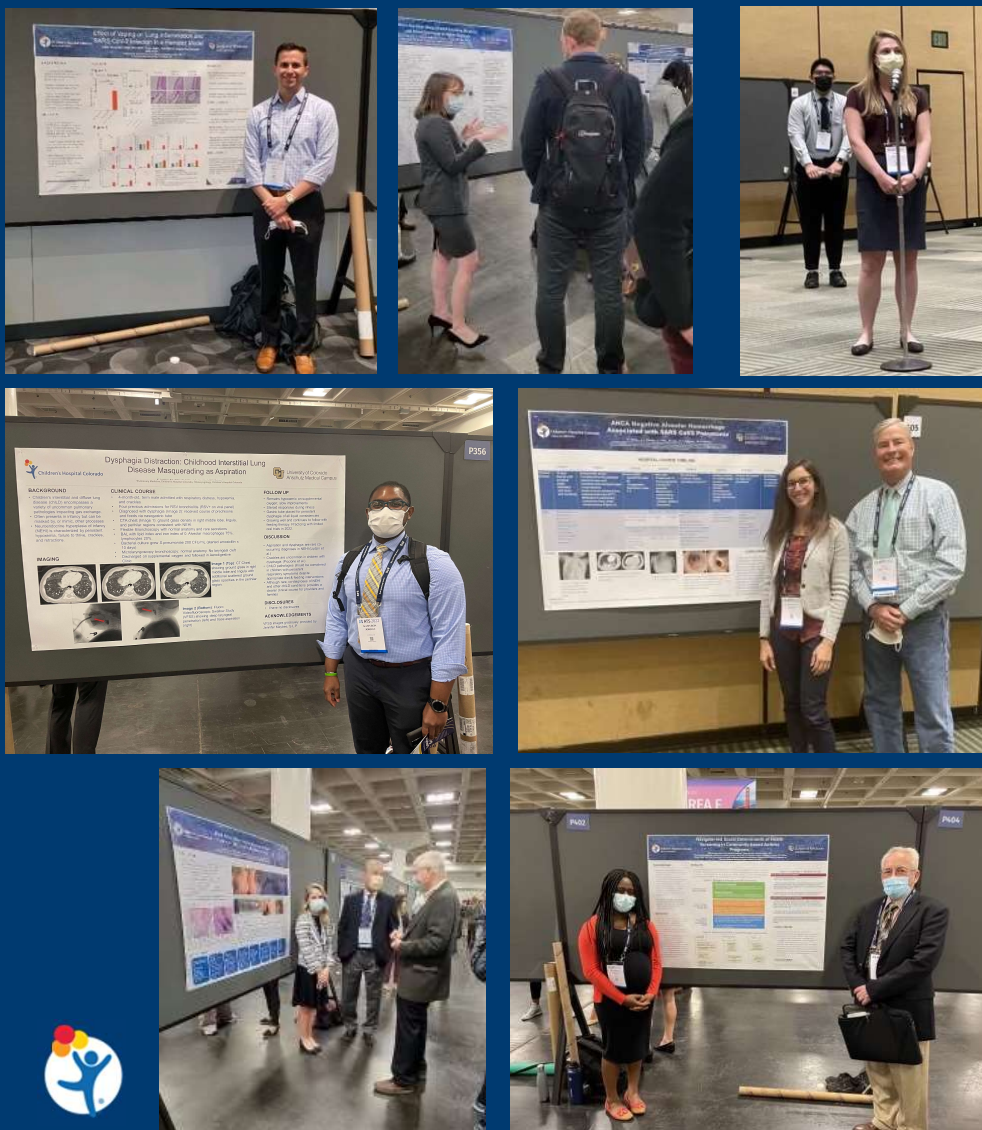
Flexible bronchoscopy training during orientation with Dr. Emily DeBoer

- Use of 3D printed models
- Didactics
- Time with Procedure RTs

Fellows graduate with typically 100-200 bronchoscopies completed, each







## Training in Research

- Dedicated time in years 2 and 3
- Goal = Strong research experience with opportunity to launch research career
- Basic, Translational, Clinical research
- Core Research Curriculum
- Also training in QI
- Opportunities for additional training/degrees
- Funding provided by:
  - Cystic Fibrosis Foundation Fellowship Grants
  - NIH Disparities Elimination through Coordinated Interventions to Prevent and Control Heart and Lung Disease (DECIPHER) Supplement
  - Institutional T32 opportunities
  - Children's Hospital Colorado
  - Section of Pediatric Pulmonary & Sleep Medicine



## DEI

- Led by our Breathing Institute Equity Council and Fellowship Program
- Diversity, equity, and inclusion are more than buzzword in our Pediatric Pulmonary section
- Our vision, creating a culture that centers equity and justice, is what we strive toward each day





## Wellness

Ensuring fellow wellness is a critical part of our mission.

Supports in place within our section:

- Wellness Champion, Dr. Heather De Keyser
- FATeam
- Hospital and campus-level supports







## Fellowship- Year 1

### Primarily Clinical Year

Inpatient Service: 6-7 weeks

Consult Service: 8-9 weeks

NICU-Pulmonary Consult Service: 3 weeks

PICU Fellow: 2 weeks

Research & sub-specialty clinic rotations:  
22 weeks

Vacation: 4 weeks





## Fellowship Year 2 & 3

### Primarily Research Year

Inpatient Service: 2-3 weeks

Consult Service: 3-5 weeks

NICU/Pulmonary Consult Service: 1-2 weeks

Research: 40 weeks

Vacation: 4 weeks

## Night Call

- All HOME CALL with attending back-up
- Divided among fellows, heaviest in 1<sup>st</sup> year
- No night call when on Consult service





# Outpatient Clinic Experience

## Fellowship Continuity Clinic:

- One ½ day per week when not on clinical service

## Specialized Sub-Specialty Clinic Rotation

### 1<sup>st</sup> year fellows

- A sub-specialty clinic rotation schedule will be built for you to help foster exposure to all the opportunities available in pulmonary medicine

### 2<sup>nd</sup> & 3<sup>rd</sup> year fellows

- One CF sub-specialty clinic a month is built into your clinic schedule
- Opportunities for tailored time in 3<sup>rd</sup> year to help prepare for faculty position





# Conferences/Teaching

## Weekly:

- Pulmonary Fellowship Conference/Grand Rounds

## Monthly:

- Pulmonary/Pathology/Radiology Conference
- Journal Club
- Western States
- Physiology with the Phellows/Board Prep



# Retreats & Conferences

Annual Cotton Conference

Annual ATS Conference

Annual NACFC Conference



# Career Development for Fellows

Career track training by Fellowship  
Educational Director

Research mentorship by Fellowship  
Research Director

Fellow career guidance by junior faculty  
(FATeam)

Primary research mentor

Scholarship Oversight Committee

Semi-annual evaluations with  
Fellowship Program Director

Additional leadership and training  
opportunities at Regional and National  
levels



# Children's Hospital Colorado

- Primary rotation location
- Opened in 2007 ~440 beds now
  - Free-standing Children's Hospital
  - 4 story outpatient building
  - 10 story inpatient building
- Remodel of procedure center ~2013
- Epic EMR
- Outreach opportunities:
  - Denver Health Hospital - community based affiliate
  - Children's South Campus
  - Children's North Campus
  - Children's Colorado Spring Hospital
  - National Jewish Health - affiliate



## Cool Facts about Aurora/Denver Area:

- We get more sun than most US cities (even California!) with 300 days of sunshine a year.
- We brew more beer than anyone else in the country, with over 200 different beers brewed daily.
- We are one of only 12 US cities to have sports teams in all four major sports (baseball, hockey, football, and basketball).
- We have the largest parks system in the nation, with over 14,000 acres of mountain parts, and 2,500 acres of natural areas. It will take a lifetime to explore it all!
- We are nicknamed the mile high city because we sit exactly one mile above sea level (5,280 feet).
- We receive more money for the arts per capita than any other US city.

