

UAB Pediatric Fellowship Programs

Information Booklet



UAB MEDICINE
PEDIATRICS





Welcome

Welcome!

- We're very glad you're here! Thank you for your interest in our Fellowship Programs.
- Throughout this booklet, we hope you'll find beneficial information that will help in your fellowship decision.
- If there is something you would like to know that is not included, please email or call us:

- Mitch Cohen, MD
- Department of Pediatrics
- Chair



- Ann E. Klasner, MD, MPH
- Pediatric Subspecialty Director
- aklasner@peds.uab.edu



- Ronda Chandler
- Subspecialty Coordinator
- (Contact person)
- rchandler@peds.uab.edu





UAB Pediatric Fellowships

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UAB Pediatrics by the Numbers

69,158	--	Number of Visits to Emergency Medicine in 2014
13,676	--	Inpatient Admissions in 2014 (COA)
228,369	--	Outpatient Clinic Visits in 2013 (COA)
380	--	Licensed beds (COA)
120	--	RNICU/CCN beds (UAB)
48	--	NICU beds (COA)
807	--	Pediatric Critical Care Transports in 2014
230	--	Daily Average Census 2014 (COA)
203	--	Pediatric Medical Faculty Members
18	--	Pediatric Fellowship Programs
61	--	Pediatric Fellows
66	--	Pediatric House Staff
16	--	Combined Med/Peds House Staff
15	--	Scheduled Vacation Days
17	--	Pediatric Departments in funding by NIH
6	--	Consecutive Years COA ranked among nation's best by <i>U.S. News & World Report</i>
760,000 sf	--	The largest single medical facility expansion project in the history of Alabama



Birmingham by the Numbers

2	--	Average Annual Snowfall in Inches
23	--	Metro Hospitals
15-20	--	Average Number of Minutes to Commute to Work
17	--	Public Golf Courses
23	--	State Parks
50+	--	Shopping Centers
62	--	Average Temperature in Degrees F°
96	--	Antique Malls and Galleries
117	--	Days of Precipitation
147	--	Miles from Birmingham to Atlanta, GA
210	--	Miles from Birmingham to Destin, FL (The Beach)
500+	--	Restaurants
\$820	--	Median Rent for 2 Bedroom Apartment



Birmingham Websites

<http://birminghamal.org/> - Website of Greater Birmingham Tourism & Conventions with links to area attractions, events and much more. Also has an app called INBirmingham

<http://www.thingstodoinbirminghamal.com/> - This website has everything to do in Birmingham on any given day.

<http://www.birmingham365.org/> - Everything there is to do in Birmingham including festivals, theatre, music, classes, and sports.

<http://www.alabamatheatre.com/> - Historic Alabama theatre where many performances and movies are shown throughout the year including *Rocky Horror Picture Show* Movie and Costume Party and several Holiday movies shown such as *It's a Wonderful Life* and *Miracle on 34th Street*.

<http://www.uab.edu/uabmagazine/> - UAB magazine, also has an app for your iPad called UAB magazine

<http://www.uab.edu/medicine/magazine/> - UAB's School of Medicine, a magazine devoted to UAB research in the medical community.

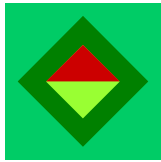
www.artsbma.org - Birmingham Museum of Art- great events like Art on the Rocks and exhibitions including *Warhol and Cars* and *Who Shot Rock and Roll*.

www.bcri.org - Birmingham Civil Rights Institute

<http://www.workplay.com/> - Music venue that hosts several well known bands.

<http://www.barbermuseum.org/> - Barber Vintage Motorsport Museum, home of the best motorcycle collection with over 1200 motorcycles and race cars on display.

<http://www.pepperplacemarket.com/> - Saturdays (April—December) - Farmer's and Craft Market. Fresh local fruits and vegetables as well as local businesses.



Birmingham Websites cont'd

<http://alysstephens.uab.edu/> - Alys Stephens Performing Art Center with several performances throughout the year. This year's schedule includes a B.B. King Tribute, The Indigo Girls, Beethoven's Ninth Symphony, Christmas with Amy Grant, Handel's Messiah, Tchaikovsky Piano Concerto and more.

<http://www.mcwane.org/> - McWane Science Center- local science museum with an IMAX theater offers several hands on activities and camps for children.

<http://www.alabamaballet.org/>- Alabama Ballet Company - local ballet with several performances throughout the year including *Snow White* and George Balanchine's *The Nutcracker*.

<http://railroadpark.org/> - Railroad Park, located on 1st Avenue South between 14th and 18th Streets, is venue that offers recreation and several activities.

www.barons.com Birmingham Barons, our minor league baseball team which is an AA affiliate of the Chicago White Sox.

www.bjcc.org Birmingham Jefferson Convention Complex holds several events and concerts including Magic City Music Fest, Disney on Ice, Kevin Hart, Ringling Bro. and Barnum and Bailey Circus, Garth Brooks, and Birmingham Home and Garden Show.

<http://www.southernmuseumofflight.org/> Southern Museum of Flight is one of the largest aviation museums in the Southeast, is dedicated to presenting civilian, military, and experimental aircraft and memorabilia from the earliest history of powered flight.

<http://ashof.org> Alabama Sports Hall of Fame and Museum holds over 5,000 sports artifacts

www.rickwood.com Rickwood Field is America's oldest ballpark. Portions of the movie '42', was filmed here. Hosts the Rickwood Classic every year.

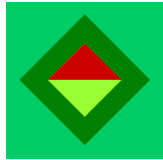
www.visitvulcan.com Vulcan Park and Museum. Vulcan is the world's largest cast iron statue.

www.ironcitybham.com Music venue and eatery that hosts several well known music acts.



Birmingham Attractions

- Alabama Adventure
- Regions Tradition Golf Tournament
- Do Dah Day Festival
- Railroad Park
- Birmingham Barons Baseball Team-Chicago White Sox AA minor league affiliate
- Birmingham Broadway Series
- The Alabama Theater
- Stardome Comedy Club
- Vulcan - Roman mythical god of the forge (tallest cast iron statue in the world)
- Vulcan Aftertunes
- Verizon Wireless Music Center
- Rickwood Field - world's oldest ballpark
- SEC Headquarters
- Civil Rights Institute
- DeSoto Caverns
- Oak Mountain State Park
- Barber Motorsports Park
- Workplay Music Theater
- Alabama Sports Hall of Fame
- Birmingham Museum of Art
- McWane Center
- IMAX Theater
- Old Car Heaven
- Birmingham Zoo & Botanical Gardens
- Pepper Place Farmers Market
- Sidewalk Moving Picture Festival
- Birmingham Business Alliance
- Greater Birmingham Convention & Visitors Bureau
- Regions Field (Birmingham Baseball Stadium)



Where Fellows Live





Overview of Fellowships Programs

16 ACGME approved Pediatric Fellowship Programs

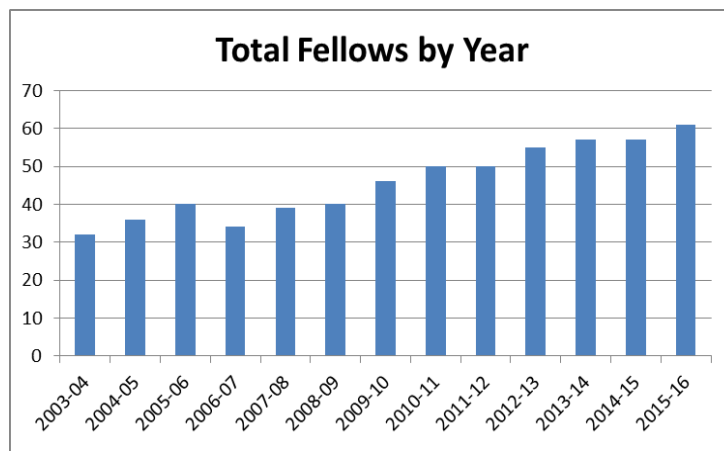
Adolescent Medicine
Allergy-Immunology
Cardiology
Child Neurology
Critical Care
Emergency Medicine
Endocrinology
Gastroenterology

Hematology-Oncology
Hospice-Palliative Care
Infectious Disease
Neonatology
Nephrology
Pulmonary
Rheumatology
Sleep Medicine

2 non-ACGME Pediatric Fellowship Programs

CVICU

Hospital Medicine



We are proud that our fellowship programs have been growing on a yearly basis. We will have 61 fellows this academic year and are planning for 63 fellows in the coming year. Our most recent addition includes a Pediatric Cardiology Fellowship, with its first class of fellows to start in 2016. Looking forward, active efforts are underway to add a Pediatric Rehabilitation Medicine Fellowship.



2015 2016

Indicates where our current fellows completed their residency training: 18 different states plus 1 from Ireland

■ Indicates where our fellows have gone after graduating

Alaska

Hawaii

In addition to the US, we have had fellows move to practice in Canada, Chile, Ireland, Kenya, Poland, Saudi Arabia and Zambia,

US Templates from www.presentationmagazine.com



Child Health Investigative Forum

The Child Health Investigative Forum (CHIF) was organized to promote internal discussion of research-related topics across division and department lines. Presentations may cover any type of research related to child health. They may include research in the basic sciences, clinical investigation, public health, health systems research, medical humanities, or any other child-health related areas of interest to pediatrics and related subspecialties. The interactions generated in this setting are a fundamental component of the academic environment and experience of the UAB Department of Pediatrics, and are integral to the pursuit of an academic career. The CHIF lectures are on first and third Fridays.

Some Presentation Topics from CHIF 2015

Targeting Thioredoxin Reductase to Prevent Oxygen-Induced Lung Injury— Dr. Trent Tipple, Neonatology

Substance Abuse in Adolescent High Risk Populations— Dr. Rebekah Savage, Adolescent Medicine

Community Acquired Severe Staphylococcal Aureus Infections requiring admission to the Pediatric ICU— Dr. Kamal El Masri, Critical Care

Precision Medicine: Treatment Strategy of the Future in Pediatric Oncology? - Dr. Stuart Cramer, Hematology/Oncology

Parental Risky Driving Behaviors—Dr. Kimberlin Massey, Emergency Medicine

Impact of a Triage Tool and Standardized Order Set for Early Recognition and goal-directed Therapy in Pediatric Sepsis— Dr. Christopher Pruitt, Emergency Medicine

A Neurological Disease in Children Presenting as Intractable Vomiting—Dr. Ashutosh Kumar, Pediatric Neurology



Core Educational Curriculum

The Fellows' Core Educational Series was organized in 2015 to supplement individual divisional level educational efforts. The primary focus is on topics that cross all fellowships. Examples of topics to be covered include: career development, education related topics, teaching and presenting skills, cultural competency, communication, advocacy and leadership. The Fellows' Core Educational Series will generally occur on the second Friday of the month.

A sample curriculum noted below:

Core Curriculum

Year 1	Year 2
Risk Management	Research Grants
Library Resources	Research Ethics
Leadership Skills	Biostatistics and Epi
Negotiating for an Academic Job	Evidence Based Medicine
Contracts	IRB Management
Advocacy	Presenting Research
Professionalism	Research Design
Wellness	Simulation in Education
Economics of Healthcare	Promotion and Tenure
Academic Success	CV Preparation
Presentation Skills	Quality Improvement
Social media	Patient Safety



Dixon Fellowship Award

The Dixon Foundation endows a fellowship program in Pediatrics expressly aimed at supporting postdoctoral training and research in approved Pediatric subspecialties to prepare outstanding fellows for a career in academia.

The program was initiated in 1988 by Ed and Peggy Dixon following the loss of their grandson, Bradford Dean Dixon, to Biliary Atresia in the mid-1980's.

As part of this prestigious award, recipients benefit from salary support and additional \$5,000 per year discretionary funds to support research and continuing education activities.

2015-2016 Dixon Fellows:

Aaron Grubbs, MD, Infectious Diseases

Research: Evaluation of Protein Antigen Assays for Diagnosis of Pneumococcal Disease

Mentor: David E. Briles

Jennifer Hamm, MD, Hem/Onc

Research Focus: Sickle Cell Disease

Mentor: Rakesh Patel, MD
and Jeffrey Lebensburger, DO

Sangeetha B. Rao, MD, Critical Care

Research: Identifying novel lipid changes in sepsis induced AI using SWATH lipidomics and MALDI imaging Techniques

Mentor: Anupam Agarwal, MD

Catherine Hough-Telford, MD, ID

Research Focus: Cytomegalovirus in Breast Milk

Mentor: Suresh Boppana, MD
and Shannon Ross, MD

Brett Turner, MD, Pulmonary

Research Focus: Primary Clinical Dyskinesia

Mentor: George M. Solomon, MD

Complete List of Dixon Fellowship Recipients:

James Royall	Brad Guffey
Raymond Watts	Donald Meyn
Robert Hostoffer	Vandy Black
Steve Baldwin	Brad Troxler
Lisa Conry	Brian Varisco
Suresh Boppana	Hilary Hains
Jim Hagood	Scott James
Sue Jue	Philip Tatum
Neil Kooy	Traci Jester
Coralie Hains	Monica Tucci Cramer
Suzanne Saccente	Rebecca Widener
J.P. Clancy	Kasey Davis
Clara Chung	Grace Houser
Bedford Nieves	Nathan Price
Frank Genuardi	Swetha Pinninti
Vick DiCarlo	Samer Zaid-Kaylani
Lee Hilliard	Maran Ramani
David Kimberlin	Franco Diaz
Judson Miller	Jegen Kandasamy
Margaret Winkler	Sara Oliver
Suzanne Skoda-Smith	Chrystal Rutledge
Jayne Ness	Ammar Saadoon
Masako Shimamura	J. Aaron Grubbs



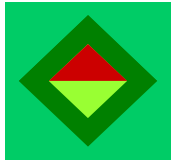
Chu Family Educational Scholarship

The Chu Family has provided a generous gift for educational initiatives. A large portion of this gift has been set aside specifically for Pediatric Fellows.

A competitive process is in place for fellows to apply for these funds on a yearly basis.

Examples of educational endeavors that are suitable for application include:

- Masters of Public Health
- Masters of Science in Public Health
- Quality Academy
- Masters of Quality and Safety
- Masters of Education
- Masters of Business Administration
- Other educational initiatives not covered above – i.e. Simulation



Quality Improvement and Patient Safety

Quality improvement and patient safety are key educational components to fellowship training.

University of Alabama at Birmingham has a unique certificate program in Healthcare Quality and Safety; this program can lead to a Master's degree via the School of Health Professions. Fellows may apply and participate in this program.

Realizing that all fellows may not have the time and commitment to obtain this certificate a **UAB Mini-Quality Academy** has been developed. Each one day sessions allows for inter-professional training and collaboration in Quality Improvement and Patient Safety. Most fellows will be required to participate.

An example of the curriculum is noted below:

UAB Mini Quality Academy

Session 1: Making the Case for Quality Improvement

- History of Quality Improvement
- Modern Medicine: The Best the World Has Ever Seen?
- Fixing the Problems and Managing Clinical Processes

Session 2: Understanding the Problem

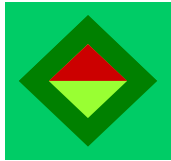
- Mission and Forming Effective Teams
- Identifying Problems
- QI Tools – Brainstorming, Multivoting, and Affinity Diagrams (Break-out)
- Assessing and Mapping the Process (Break-out)
- Project Roadmaps: Creating Specific Aim Statements and Project Charters

Session 3: Gathering and Analyzing Data

- Introduction to Data
- Importance of Data Definitions for Success (Break-out)
- Data Collection
- Data Not Related to Time – Histograms and Pareto Charts
- Data Related to Time – Run Charts and Control Charts (Break- out)
- Prioritizing Solutions

Session 4: Patient Safety and High Reliability

- Defining Patient Safety
- Swiss Cheese Model and Error-Proofing
- Importance of Teams
- High Reliability Organizations



Simulation Center

The Pediatric Simulation Center at Children's of Alabama was established in 2007 to provide physicians, nurses, respiratory therapists, pharmacists, students and other health care professionals with opportunities to perform common medical procedures and respond to rare, complex conditions and life threatening emergencies. With the help of our supporters, the Center continues to grow and has nine simulators ranging in age from newborn to teen. Three of the simulators are wireless and can be used off-site. In 2014, we saw more than 5,000 visitors and conducted more than 900 simulations. Our staff strives to maintain our vision of a multidisciplinary center of excellence that utilizes high-fidelity simulation to promote education, research, and the delivery of safe, innovative health care for children. The Center's mission is to integrate simulation throughout Children's of Alabama in a structured learning environment that promotes excellence in clinical care, patient safety, and education for all pediatric healthcare practitioners and care teams.

Over the past five years, the Pediatric Simulation Center has conducted...

- 70 Mock Codes
- 32 PALS sessions
- 46 NRP sessions
- 34 Trauma simulations
- 98 nursing service orientation (NSO) simulations
- 17 national and local podium presentations
- 37 IRB approved research studies
- 41 research posters at national and international conferences
- 27 trips to Children's South
- and consumed 1800 pounds of candy!





2015 Medical Faculty UAB Department of Pediatrics **Mitchell Cohen, MD - Chair**

Vice-Chair for Education	Vice-Chair for Research	Vice-Chair for Clinical Affairs	Vice Chair for Clinical and Translational Research	Vice Chair for Outcomes
<i>Michele Nichols, MD</i>	<i>Richard J. Whitley, MD</i>	<i>Peter Glaeser, MD</i>	<i>David Kimberlin, MD</i>	<i>Smita Bhatia, MD, MPH</i>
ALLERGY and IMMUNOLOGY <u>(205-638-9072) 220-CPPII</u> ♦Dr. Prescott Atkinson Professor Dr. Coralie S. Hains Associate Professor Dr. Suthida Kankirawatana Assistant Professor		DEVELOPMENTAL PEDIATRICS <u>(205-638-9585) 310-CPPI</u> Dr. Justin Schwartz Assistant Professor		GASTROENTEROLOGY/ HEPATOLOGY/ NUTRITION <u>(205-638-9918) 618-Lowder</u> ♦ Dr. Reed Dimmitt Professor Dr. Erin Bhatia Instructor (PT) Dr. David Galloway Assistant Professor Dr. Traci Jester Assistant Professor Dr. Jeanine Maclin Assistant Professor Dr. Jose Mestre Professor Dr. Janaina Nogueira Assistant Professor
CARDIOLOGY <u>(205-934-3460) 9100-WIC</u> ♦Dr. Yung R. Lau Professor Dr. Jeffery Alten CVICU Professor Dr. Santiago Borasino CVICU Associate Professor Dr. Wally F. Carlo Assistant Professor Dr. Edward V. Colvin Professor Dr. Kimberly Jackson CVICU Assistant Professor Dr. Walter H. Johnson Professor Dr. Yuvraj Kalra Assistant Professor Dr. Mark Law Associate Professor Dr. William S. McMahon Professor Dr. F. Bennett Pearce Professor Dr. Leslie Rhodes Assistant Professor Dr. Robb L. Romp Associate Professor Dr. Hayden Zaccangi CVICU Assistant Professor		EMERGENCY MEDICINE <u>(205-638-9587), 110-CPPI</u> ♦Dr. Peter Glaeser Professor Dr. Mark Baker Associate Professor Dr. Steven T. Baldwin Professor Dr. Judson Barber Associate Professor Dr. David W. Bernard Professor Dr. Teresa Coco Associate Professor Dr. Catherine Cotney Instructor Dr. Valerie Davis Assistant Professor Dr. Orooj Fasiuddin Instructor (PT) Pallavi Ghuge, MD Assistant Professor Dr. Terry Hope Instructor Dr. Nicole Jones Assistant Professor Dr. Ann Klasner Professor Dr. Patricia LaBorde Instructor Dr. Florence Lee Instructor Dr. Erica Liebelt Professor Dr. Laurie Marzullo Assistant Professor Dr. Heather Mitchell Assistant Professor Dr. Kathy W. Monroe Professor Dr. Michele H. Nichols Professor Dr. Melissa Peters Assistant Professor Dr. Christopher Pruitt Assistant Professor Dr. Paul Schneider Assistant Professor Dr. Annalise Sorrentino Professor Dr. Marjorie Lee White Associate Professor		GENERAL PEDIATRICS & ADOLESCENT MEDICINE <u>(205-638-9585) 310-CPPI</u> ♦Dr. Carolyn S. Ashworth Professor *Dr. Jennie Andresen Assistant Professor Dr. Allury Arora Assistant Professor *Dr. Cason Benton Associate Professor Krista Casazza, PhD Associate Professor *Dr. Allison Cavender Instructor/Sparks *Dr. Jennifer Chambers Assistant Professor Dr. Candice Dye Assistant Professor Dr. H. Hughes Evans Professor Dr. Crayton A. Fargason Professor *Dr. DeeAnne S. Jackson Associate Professor *Dr. Snehal Khatri Associate Professor *Dr. Carin Richard Kiser Assistant Professor Dr. Morissa Ladinsky Associate Professor Dr. Jamie McKinney Assistant Professor Dr. Myriam Peralta Professor Dr. Anne Thiele Assistant Professor Dr. April Truett Instructor Dr. Terry C. Wall Professor
CHILD ABUSE <u>(205-638-2802)105 -CPPI</u> ♦ Dr. Michael Taylor Professor		ENDOCRINOLOGY <u>(205-638-9107) 230-CPPII</u> ♦Dr. Kenneth McCormick Professor Dr. Hussein Abdul-Latif Associate Professor Dr. Ambika Ashraf Associate Professor *Dr. Joycelyn Atchison Professor Dr. Caroline Colvin Assistant Professor *Dr. Gail Mick Professor Dr. Mary Lauren Scott Assistant Professor Dr. Michael Stalvey Assistant Professor		Adolescent Medicine Heather Austin, PhD Assistant Professor Dr. Nefertiti Durant Associate Professor Dr. Tina Simpson Associate Professor Dr. Marsha S. Sturdevant Professor Dr. Stephenie Wallace Associate Professor
CHILD INJURY CONTROL CTR <u>(205) 638-6031 Magnolia Bldg 3rd Floor</u> ♦William D. King, PhD Professor		CRITICAL CARE <u>(205-638-9387) 102 -CPPI</u> ♦Dr. Margaret Winkler Professor Dr. Mark Buckmaster Associate Professor Dr. Leslie Hayes Associate Professor Dr. Michele Kong Assistant Professor Dr. Priya Prabhakaran Associate Professor Dr. Stephen Robert Assistant Professor Dr. Chrystal Rutledge Assistant Professor Dr. Will Sasser Assistant Professor Dr. Nancy Tofil Associate Professor		Med-Gerontology/Geriatrics/Palliative Care <u>(205-933-8101) Community Health 19 - 218P</u> Dr. Sam Perna Assistant Professor Dr. Michael Barnett Assistant Professor Dr. Ashley C. Nichols Assistant Professor

♦ Denotes Division Director



2015 Medical Faculty UAB Department of Pediatrics

Mitchell Cohen, MD - Chair

HEMATOLOGY/ONCOLOGY

(205-638-9285) 512-Lowder

♦Dr. Raymond G. Watts	Professor
Dr. Elizabeth Alva	Instructor
Dr. Smita Bhatia	Professor
Dr. Christy Bemrich-Stolz	Instructor
Dr. Joseph Chewning	Associate Professor
Dr. Stuart Cramer	Assistant Professor
Dr. Gregory Friedman	Associate Professor
Dr. Frederick Goldman	Professor
Dr. Hilary Haines	Assistant Professor
Dr. Lee M. Hilliard	Professor
Dr. Thomas Howard	Professor
Dr. Matthew Kutny	Assistant Professor

Wendy Landier, PhD, RN Associate Professor

Dr. Jeffrey Lebensburger Assistant Professor

Purnima Singh, PhD Assistant Professor

Avi Madan-Swain, PhD Associate Professor

Dr. Alyssa Reddy Professor

Dr. Kim Whelan Associate Professor

Dr. Julie Woolfson Assistant Professor

Dr. Ana Xavier Assistant Professor

PEDIATRIC HOSPITAL MEDICINE

(205-638-9922) 108 McWane

♦Dr. Robert F. Pass Prof & Director

Dr. Stephanie Berger Assistant Professor

Dr. Emily Casey Assistant Professor

Dr. James Gambrell Assistant Professor

Dr. Kaitlin Hill Instructor

Dr. Katherine Hoops Instructor

Dr. Jed Kinnick Instructor

Dr. Sri Narayanan Assistant Professor

Dr. Lauren Nassetta Assistant Professor

Dr. Mary Orr Instructor

Dr. Nichole Samuy Assistant Professor

Dr. Paul Scalici Assistant Professor

Dr. Susan Walley Associate Professor

Dr. Chang Wu Assistant Professor

INFECTIOUS DISEASE/ VIROLOGY

(205-934-2441) 308-CHB

♦ Dr. Richard J. Whitley Professor

Dr. David W. Kimberlin Prof & Co-Director

Mary Ballestas, PhD Assistant Professor

Dr. Suresh Boppana Professor

INFECTIOUS DISEASE/ VIROLOGY (cont..)

(205-934-2441) 308-CHB

Dr. William J. Britt	Professor
Dr. Marilyn J. Crain	Professor
Maaie Everts, PhD	Associate Professor
Dr. Karen Fowler	Professor
Dr. S. Cecelia Hutto	Professor
Dr. Scott James	Assistant Professor
Mark Prichard, PhD	Professor
Debra Quenelle, PhD	Associate Professor
Dr. Shannon Ross	Associate Professor
Veronica Sanchez, PhD	Assistant Professor
Dr. Sergio Stagno	Professor Emeritus

NEONATAL/PERINATAL MED

(205-934-4680) 9380-WIC

♦Dr. Waldemar A. Carlo Professor

Dr. Namasivayam Ambalavanan Prof & Co-Director

Dr. Allison Black Assistant Professor

Dr. Kathryn Buchan Assistant Professor

Dr. Carl H. Coghill Professor

Dr. George El Ferzli Assistant Professor

Dr. Hannah Hightower Assistant Professor

Dr. Tamas Jilling Associate Professor

Dr. Jegen Kandasamy Assistant Professor

Dr. Virginia A. Karle Professor

Dr. Charitharth Lal Assistant Professor

Dr. Albert Manasyan (Zambia) Assistant Professor

Dr. Joseph B. Philips Professor

Dr. Maran Ramani Assistant Professor

Dr. Ariel Salas Assistant Professor

Dr. Trent Tipple Associate Professor

Dr. Brian Sims Associate Professor

Dr. Rune Toms Associate Professor

Dr. Lindy Winter Associate Professor

NEPHROLOGY

(205-638-9781) 516-Lowder

♦ Dr. Daniel Feig Professor

Dr. David Askenazi Associate Professor

Dr. Sahar Fathallah-Shaykh Associate Professor

Dr. Michael Seifert Assistant Professor

Dr. Monica Tucci-Cramer Assistant Professor

NEUROLOGY

(205-996-7850) 314-CHB

♦ Dr. Leon S. Dure	Professor
Dr. Pierre Fequiere	Assistant Professor
Dr. Monisha Goyal	Professor
Dr. Katherine Hammond	Assistant Professor
Dr. Krisztina Harsanyi-Jilling	Assistant Professor
Dr. Pongkiat Kankirawatana	Associate Professor
Dr. Jan Mathisen	Professor
Dr. Tony McGrath	Associate Professor
Dr. Jayne Ness	Associate Professor
Dr. Alan K. Percy	Professor
Dr. Rani Singh	Assistant Professor

PULMONOLOGY

(205-638-9583) 620-Lowder

♦ Dr. Hector Gutierrez Professor

*Dr. Kristin Avis Associate Professor

Dr. Jennifer Guimbellot Instructor

Dr. William Harris Assistant Professor

Dr. Wyn Hoover Associate Professor

Claire Lenker Associate Professor

Dr. Isabel Lowell Associate Professor

Dr. David Lozano Associate Professor

Dr. Mary Halsey Maddox Associate Professor

Dr. Teri Magruder Associate Professor

Valerie Tarn, PhD Assistant Professor

Dr. Brad Troxler Assistant Professor

Huntsville Campus (256-551-4600)

Dr. Gerald Judy Associate Professor

Dr. Vinit Mahesh Associate Professor

REHABILITATION MEDICINE

(205-638-9790) 510-Lowder

♦ Dr. Drew Davis Associate Professor

Dr. Paola "Lala" Mendoza Assistant Professor

Dr. Erin Swanson Assistant Professor

RHEUMATOLOGY

(205-638-9438) 210-CPPII

♦Dr. Randy Cron Professor

Dr. Tim Beukelman Associate Professor

Dr. Robert Lowe Assistant Professor

Dr. Melissa Mannion Instructor

Dr. Matthew Stoll Associate Professor

Dr. Peter Weiser Assistant Professor



Policies and Procedures

The National Resident Matching Program (NRMP) recommends all applicants review the policies and procedures manual of any institution they are considering listing on their certified rank order list. We have included a copy of our Initial Resident Agreement for 2015-2016 that all incoming residents are required to sign. If you are interested in checking out a complete list of our policies and procedures, please check out the UAB Graduate Medical Education website at:

[http://www.uab.edu/medicine/home/images/
AY_2016_GME_Policy_and_Procedure_Manual_-_kn.pdf](http://www.uab.edu/medicine/home/images/AY_2016_GME_Policy_and_Procedure_Manual_-_kn.pdf)

INITIAL RESIDENT AGREEMENT

This agreement is entered into the 1st day of July, 2015 between the Board of Trustees of the University of Alabama on behalf of The University of Alabama Hospital ("Hospital"), and _____ ("Resident").

Hospital wishes to appoint the Resident as a postgraduate year _____ resident in the _____ Program and Resident wishes to accept such appointment.

Therefore, the parties hereto agree as follows:

1. Term of Agreement. Unless earlier terminated in accordance with this agreement, the term of the Resident's appointment is one year commencing on July 1, 2015, and terminating on June 30, 2016.

2. Graduate Medical Education Policies and Procedures. Resident has been provided a copy of the UAB Hospital Graduate Medical Education Policies and Procedures. Resident acknowledges receipt of said document as well as having read and understood it. Resident acknowledges and comprehends the guidelines and/or the processes outlined in the GME Policies and Procedures, including, without limitations, those sections regarding resident eligibility and requirements for residency training (Section III.A), resident responsibilities and conditions of appointment (Section V), educational program and faculty responsibilities (Section VII), financial support and benefits (Section IV), ancillary and support services (Section VI), disciplinary procedures (Section X), grievance procedures and due process (Section XI), professional liability insurance (Section IV.F), health and disability insurance (Section IV.E), annual leave (Section IV.G), supervision of residents (Section VIII.B), duty hours (Section VIII.D), moonlighting (Section VIII.G), counseling services (Section VI.C), physician impairment (Section IX), residency closure/reduction (Section IV.B), restrictive covenants (Section III.C), and University of Alabama at Birmingham policies on harassment (Appendix 9).

3. ACGME Accreditation Related Activities. In programs accredited by the Accreditation Council for GME (ACGME), resident acknowledges and agrees to maintain compliance with activities related to program accreditation in the time prescribed. These activities include, but are not limited to, completing the ACGME Resident Survey, logging duty hours and completing case logs as requested by the Program Director.

4. Salaries. Salaries are determined each year based on the budget of the Hospital with approval by the Dean's Council for Graduate Medical Education. Resident shall be paid the salary approved for the appointed postgraduate year, as specified in Section 1 of this agreement, and in accordance with the GME Policies and Procedures, Section IV.D.

5. Physical Examination. Resident understands that failure to complete a health screening examination performed by the Hospital, as outlined in Section V.D. of the GME Policies and Procedures will result in suspension or termination of his/her appointment as a resident.

6. Tobacco-Free Hiring Policy. Resident understands that he/she will not be hired if found to test positive for nicotine use on the pre-employment drug screen performed by the Hospital, as outlined in Section V.E of the GME Policies and Procedures.

7. USMLE/COMLEX Examinations and Alabama Licensure. Resident understands that failure to pass the USMLE or COMLEX examinations and obtain licensure in the State of Alabama, as outlined in Sections V.J, V.K, and V.L of the GME Policies and Procedures, will result in suspension or termination of his/her appointment as a resident.

8. Renewal of Agreement. Resident understands and acknowledges that this agreement expires on the date set forth in Section 1 and that Hospital makes no commitment to renew this agreement. Reappointment and advancement of the Resident is at the discretion of the Program Director in accordance with Section III.F. of the GME Policies and Procedures. If a decision is made by the Hospital not to renew this agreement at the end of its one year term, notice of such nonrenewal shall be made in writing four months in advance of June 30, 2016, in accordance with section III.D of the GME Policies and Procedures. However, if the primary reason for the non renewal occurs within the four months prior to the end of the agreement, the notice of non renewal may be sent less than four months in advance of the non renewal. Any resident receiving notice of intent to not renew his/her contract may request a hearing as outlined in Grievance Procedures, Section XI.C. Any resident receiving notice of intent of non-promotion to the next level of training may request informal adjudication as outlined in Grievance Procedures, Section XI.B. Each Resident who is offered a renewal of this agreement must accept such offer in writing within thirty (30) days of the date shown in the first paragraph of the renewal contract. Likewise, if a decision is made by the Resident not to renew this agreement at the end of its one year term, the resident shall submit notice of such nonrenewal in writing to the Graduate Medical Education Department four months in advance of June 30, 2016.

9. Termination of Agreement. Hospital may terminate the Resident Agreement, as set forth in the GME Policies and Procedures. If the resident leaves the program, thereby terminating this agreement, the resident will have breached this agreement. In the event of such breach, resident understands and agrees to the following: 1) the Hospital will report the resident's breach of the agreement to the National Resident Matching Program, if applicable; and, 2) the Program Director and the Hospital will include the fact of the resident's breach in any reference letters.

10. Acceptance. This agreement shall not be effective and shall not bind either party unless it is submitted to Hospital within sixty (60) days of the date shown in the first paragraph of this agreement and accepted by the Hospital by signature below.

THE UNIVERSITY OF ALABAMA HOSPITAL:

By: _____

Gustavo Heudebert, MD- Designated Institutional Official

Date: _____, 2015

By: _____

Program Director

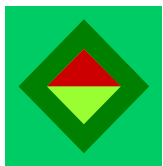
Date: _____, 2015

Program: _____

RESIDENT:

By: _____

Date: _____, 2015



Salary and Benefits

Salary	Benefits	Miscellaneous
<ul style="list-style-type: none"> • PGY-4 \$54,590 • PGY-5 \$55,273 • PGY-6 \$57,173 <p>* Stipends are reviewed annually in accordance with those of the Council of Teaching Hospitals.</p>	<p><u>At no cost:</u></p> <ul style="list-style-type: none"> • Professional liability insurance • Group term life insurance • Long-term disability insurance • Accidental death and dismemberment insurance • Pagers • Photocopying/faxing privileges • Medline database • Counseling services through the UAB Faculty and Staff Assistance Program • Three weeks off/year • Family leave <p><u>Other benefits:</u></p> <ul style="list-style-type: none"> • Health insurance plans for residents, spouses and dependent children provided at favorable rates • Dental insurance at favorable rates • Hospital Parking at favorable rates • Campus Recreation Center • Onsite Childcare 	<ul style="list-style-type: none"> • Financial support for presentation at a scientific meeting • Conference travel allowance • Financial support for travel to fellows meeting • Financial support for international rotation • On-site Medical Library • Medical license reimbursement • PALS, ATLS Courses • Yearly in-service exam



Employee Benefits for House Officers

UNIVERSITY PAID INSURANCE

	<u>ANNUAL SALARY</u>	<u>COVERAGE</u>
1. Group Term Life Insurance	\$24,000-29,999	\$37,500
Coverage varies with salary as indicated.	\$30,000-39,999	\$50,000
No cost to employee.	\$40,000 and above, 125% of salary with a maximum insurance coverage of \$300,000.	
2. Accidental Death and Dismemberment Insurance	\$22,500 for accidental death	
No cost to employee.		
3. Long-Term Disability Insurance (Salary Continuation)		
After a 90-day waiting period, 66 2/3% month salary (not to exceed \$10,000 per month) for the first 90 days.		
The benefit is then reduced to 60%. No cost to employee.		

HEALTH CARE PLANS:

Some form of health insurance coverage is mandatory. Proof of insurance is required if the University's VivaUAB, VivaAccess, or Blue Cross are not elected.

VivaUAB, VivaAccess, or Blue Cross monthly deductions:

	<u>YOUR COST (2014)</u>		
	<u>VivaUAB</u>	<u>VivaAccess</u>	<u>Blue Cross/PMD</u>
Single coverage	\$ 63.48	\$ 141.92	\$ 248.42
Employee+up to 2	\$ 211.02	\$ 396.96	\$ 657.94
Family coverage	\$ 318.20	\$ 588.54	\$ 1,012.42

Coverage under UAB's group health care plans must begin on either the date of employment or the first day of the month following date of employment.

VOLUNTARY BENEFITS:

1. MetLife Dental Plans
Basic Option: Single Coverage - \$18.08 month, Family Coverage - \$46.26/month
Comprehensive Option: Single Coverage - \$34.42, Family Coverage - \$87.84
(See UAB Employee Handbook for more information)
2. UAB Select: Flexible Spending Accounts - Pretax reimbursement for eligible medical and dependent care
Expenses up to \$10,000 annually per account.
3. Voluntary Life Insurance
Maximum Coverage: Up to 5 times your salary, not to exceed \$1.4 million.
Guaranteed Issue: 3 times your salary or \$500,000; elected during the first 60 days of employment without evidence of insurability.
4. Voluntary Accidental Death and Dismemberment Insurance
Maximum Coverage: \$500,000

OTHER BENEFITS:

1. Social Security taxes and benefits established by the U.S. Government.
2. Unemployment Compensation Insurance paid entirely by the University.
3. On-the-job Injury/Illness Program paid entirely by the University.

This information is a brief summary of benefits for general purposes only.
Please refer to the UAB School of Medicine website for additional information (<http://medicine/home/>)



Adolescent Medicine

About Us:

The UAB Adolescent Medicine Subspecialty Fellowship program is an RRC-approved training program for physicians who have completed specialty training in pediatrics, family medicine, or internal medicine. The three year pediatric fellowship includes comprehensive interdisciplinary training based upon ACGME core competencies. Fellows participate actively in teaching of medical students, residents, and health care trainees from nutrition, nursing and other health related fields. The core faculty members of the program are physicians, nurse practitioners, psychologists, dietitians, and other health professionals with special training and expertise in adolescent health issues.

Fellows can participate in master's level training in public health, health administration and other health-related fields.

Fellowship Director:

Tina Simpson, MD, MPH

"Our program offers a rich and diverse environment that fosters an exceptional opportunity for subspecialty training in adolescent medicine."



Fellowship Coordinator:

Adrianne Marbury, MPA

amarbury@peds.uab.edu

205-638-6970



Division Research Interests:

Faculty:

Nefertiti Durant, MD, MPH

Using Technology to Promote Physical Activity

Krista Casazza, PhD, RDN, LD

Musculoskeletal Function in Adolescents

Tina Simpson, MD, MPH

Adolescent Sexual Risk Taking Behaviors, HPV Vaccination

Marsha Sturdevant, MD

Adolescent HIV

Stephenie Wallace, MD, MSPH

Pediatric and Adolescent Obesity

Fellows:

Erin Boyd, MD, MSPH

Adolescent Sexual Risk Taking Behaviors

Rebekah Savage, MD

Adolescent Substance Use

2015-2016 Adolescent Medicine Fellows:



Rebekah Savage, MD

"I was looking for a fellowship program where I could learn the multidisciplinary approach to adolescent care through clinical experiences, mentorship and research. UAB's program in adolescent medicine perfectly fits my goals."

Erin Boyd, MD, MSPH

"I chose UAB because of their interdisciplinary approach to adolescent care, various clinical and research opportunities available in my area of interest. I knew that I could engage in more advocacy opportunities in this program as well."



What makes our program unique?

Adolescent Medicine fellows participate in the interdisciplinary Maternal and Child Health Bureau funded Leadership Education in Adolescent Health (LEAH) training program which encompasses:

- **MCH Leadership Training**
- **Community Program Development and Involvement**
- **Policy and Advocacy Training**
- **Professional Networking Opportunities**

<http://www.uab.edu/medicine/peds/gpam-training-program/leah-grant>



2016-2017 Fellowship applications accepted through ERAS system only

Division of General Pediatrics/Adolescent Medicine Children's of Alabama

University of Alabama at Birmingham
School of Medicine
1600 7th Avenue S, CPPI 310
Birmingham, AL 35233
Phone 205-934-5262





Allergy & Immunology

About Us: The UAB Allergy & Immunology Fellowship Program is an accredited joint adult and pediatric fellowship program accepting one candidate each year with board eligibility or certification in Internal Medicine or Pediatrics.

Allergy & Immunology Fellows receive intensive clinical training in allergic and immunologic diseases in children with the faculty of Pediatric Allergy, Asthma & Immunology at Children's of Alabama. On the adult side, fellows work with Dr. James Bonner, and other adult faculty, at the UAB Kirklin Clinic as well as the Birmingham VA Medical Center. Also included in their training, fellows rotate through private offices of volunteer faculty, who practice in our local community. Fellows are also encouraged to pursue electives in adult and pediatric ENT and Dermatology, specialties with considerable overlap in our field.

We believe the strength of our program is its diverse clinical rotation, required research activities and available educational and faculty resources. When our fellows complete our program, they are well rounded and prepared for hospital faculty positions or a career in private practice.

Please contact us for further information. We welcome all inquiries.

Fellowship Director:

Prescott Atkinson, MD, PhD

Residency:

University of Alabama at Birmingham
Georgetown University Hospital

Fellowship: National Institute of Health



Division Research Activities (examples):

- ◆ Nanotechnology Based Detection of *Mycoplasma pneumonia*
- ◆ Virulence Mechanisms in Ureaplasma Infection
- ◆ Emerging macrolide resistance in *Mycoplasma pneumoniae*
- ◆ The effect of mycoplasma on chronic asthma
- ◆ Role of mycoplasma on chronic asthma
- ◆ Role of mycoplasma infection in childhood asthma
- ◆ Clinical, molecular and genetic analyses of the CVID and RESPI patient population to elucidate the mechanism(s) that underlie susceptibility to infection, facilitate diagnosis, and identify new areas for prevention and treatment

Our Allergy & Immunology Fellows:



Miranda Curtiss, MD



Vuong Nayima, DO



Erin Mullaney, MD



Jack Ghably, MD

Fellowship Coordinator:



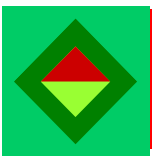
Scott DeFreese
sdefreese@peds.uab.edu
205-934-1180

Recent Division Awards and Achievements:

T. Prescott Atkinson MD, PhD, Professor and Director of Pediatrics in the Division of Allergy & Immunology, elected Vice Chair-Elect of the American Board of Allergy; and also as Vice Chair of the Allergy & Immunology Program Directors Assembly Executive Committee for 2014.

Suthida Kankirawatana MD, Abstract Presentation: Successful desensitization of alpha-glucosidase enzyme replacement therapy in the infant with Pompe disease. Presented at 2014 American College of Asthma, Allergy and Immunology annual meeting in Atlanta, GA.

Tracy Hwangpo, MD, PhD, American Federation for Medical Research SSCI/SAFMR Post-Doctoral Research Travel Award for Southern regional Meeting February 2014 in New Orleans, LA ***3 time Award winner



Cardiac Critical Care

About Us: The Pediatric Cardiac Critical Care Fellowship program is dedicated to educating future cardiac intensivists in the independent management and care of pediatric patients with congenital and acquired heart disease. We accept two fellows per year, who have completed a fellowship in pediatric critical care, pediatric cardiology, or neonatology.

Our Cardiovascular Intensive Care unit is a twenty bed unit with ~ 600 medical and surgical admissions per year. As the only Pediatric Cardiothoracic Surgery Center in the State of Alabama, the fellow is exposed to a wide-breath of both acute and chronic congenital and acquired heart disease in children and young adults. This exposure includes pre- and postoperative care of neonates and children with congenital heart disease, medical management of patients with heart failure and arrhythmias, ventricular assist devices, ECMO, and heart transplantation.

Our Cardiac Critical Care program is a collaborative effort between the Divisions of Pediatric Critical Care, Pediatric Cardiology, Pediatric Cardiothoracic Surgery, Pediatric Cardiothoracic Anesthesiology, and Pediatric Neonatology. This one year Fellowship is uniquely designed to provide training based on the candidate's previous clinical experience and would focus on developing clinical skills and knowledge specifically in Pediatric Cardiac Critical Care. The candidate would also participate in research with opportunities available in both clinical and basic science research.

Please feel free to call us with any additional questions.

Our Pediatric Critical Care Fellows:



Ashima Das



Jason Turner



Fellowship Coordinator:

LaTanya Brown

labrown@peds.uab.edu

Phone: 205-975-3123

Chief, Section of Cardiac Critical Care Medicine :

Jeffrey Alten, MD

Residency:

Pediatrics, University of Arkansas for Medical Sciences

Fellowship:

Pediatric Critical Care,
Baylor College of Medicine



Fellowship Director:

Leslie Rhodes, MD

Residency:

Pediatrics, University of Alabama at Birmingham

Fellowship:

Pediatric Critical Care, University of Alabama at Birmingham



Division Research:

Our research is multidisciplinary and an integral part of our division. All faculty are involve in clinical and translational research at some level with fellow participation. It is our goal for each fellow to complete one research project and participate in at least one conference during fellowship.

The cardiac critical care medicine section gave 18 poster presentations and five oral presentations at international scientific conferences and we won three abstract awards. Presented was the first-ever research study utilizing the Pediatric Cardiac Critical Care Consortium (PC4) database.

In multi-center collaborations, the research team worked with 13 other academic institutions on five research studies

The team had 10 studies published or accepted for publication in peer-reviewed scientific journals and conducted six prospective clinical studies, including two intervention trials to investigate the impact of intravenous immunoglobulin or hydrocortisone on outcomes after heart surgery in neonates and infants.

Novel or important research reported in 2014 included a number of firsts in the nation:

- How low gamma globulin levels impact newborn heart surgery patients
- Hemolysis associated acute kidney injury in children receiving extracorporeal support
- Epidemiology of Lung Injury in Children with Congenital Heart Disease
- How a heart-lung bypass may induce adrenal gland insufficiency
- How feeding before surgery may improve the outcome for children with the severe birth defect, hypoplastic left heart syndrome (PCICS Oral Abstract award winner 2014)
- How a central venous line into the upper body can be a risk factor after surgery for lymph fluid leaking into the lung cavity
- Developing a new protocol — based solely on monitoring heparin levels with anti Xa monitoring — on ECMO
- How a heart-lung bypass and other extracorporeal support impacts microcirculation in critically ill children
- Using balloon angioplasty (a balloon inflated inside an artery to open it up) to treat persistent leaking of lymph fluid into the lung cavity after surgery
- How a heart-lung bypass for a newborn impacts the microbial makeup in the digestive tract (the gastrointestinal microbiome)
- Prophylactic PD in high risk neonates
- Prophylactic hydrocortisone infusion in neonates after cardiopulmonary bypass (PCICS Oral Abstract award winner 2015)



Cardiology

About Us: The Pediatric Cardiology fellows will develop expertise and skills during their three years in training. The areas of expertise include: Noninvasive imaging, cardiac catheterization, electrophysiology, inpatient experience in pre and postoperative care, consultation, and general inpatient care, outpatient clinic, and research.

Our Cardiac Center offers:

- ◆ 2 dedicated cardiac operating rooms
- ◆ State of the art hybrid catheterization lab/operating suite
- ◆ 2 catheterization labs with rotational angiography
- ◆ 3-dimensional electrophysiologic mapping minimizing fluoroscopic radiation
- ◆ 20 room CVICU with 4 dedicated CV-ECMO suites
- ◆ 16 bed Cardiac Care Unit (CCU)
- ◆ Advanced noninvasive cardiac imaging: MRI and 256 slice cardiac CT scanner with minimal radiation
- ◆ Active ventricular assist device and ELSO certified ECMO (Extracorporeal Membrane Oxygenation) programs
- ◆ A specialized cardiac support team including respiratory therapists, child life, social work, pharmacists, dietician, and speech, occupational and physical therapists
- ◆ A comprehensive Fetal Heart Program with customized delivery plans for neonates with complex diagnoses
- ◆ Marfan and Related Aortic Disorders: Multidisciplinary Clinic in collaboration with UAB Dept. of Genetics
- ◆ Extended care into adulthood through collaboration with the Adult Congenital Heart Center at UAB

Please feel free to call us with any additional questions.

Pediatric Cardiology

Director:

Yung R. Lau, MD

Residency:

University of Alabama at Birmingham,
Pediatrics

Fellowship:

Medical University of South Carolina,
Pediatric Cardiology



Fellowship Director:

Mark A. Law, MD

Residency:

University of Alabama at Birmingham,
Internal Medicine/Pediatrics

Fellowship:

Baylor College of Medicine,
Pediatric Cardiology



Our Cardiac Center performs:

- ◆ Over 450 cardiac surgeries
- ◆ 10 heart transplants in 2013 and 5 heart transplants in 2014
- ◆ Over 700 cardiac catheterizations per year, including 100 EP cases and ablations
- ◆ Over 14,000 2D and 3D echocardiograms per year
- ◆ Over 7500 outpatient visits per year.
- ◆ Over 200 MRI's and CT's in 2014
- ◆ Over 80 fetal echocardiograms in 2014

2016

**Pediatric Cardiology
Fellow**



Fellowship Coordinator:

Ina Schaffer

ischaffer@peds.uab.edu

205-996-2365



Department Research:

- ◆ Ultrasound for vascular access
- ◆ Tuberous Sclerosis
- ◆ How low gamma globulin levels impact newborn after heart surgery
- ◆ Balloon angioplasty to treat persistent leaking of lymph fluid into the lung cavity after surgery
- ◆ Prophylactic hydrocortisone infusion after cardiopulmonary bypass
- ◆ Heart transplant outcomes



Child Neurology

About Us: The University of Alabama at Birmingham Child Neurology Fellowship is now combined with the Pediatric Residency Program. Applicants do NOT need to apply to the Pediatric Residency Program for the Child Neurology Fellowship position. Training in child neurology shall encompass a total of five years. This includes two years of pediatric residency training, one year of training in clinical adult neurology, one year of training in clinical child neurology, and one year as "flexible".

Residents learn the principles of neurophysiology, neuropathology, neuroradiology, neuroophthalmology, psychiatry, rehabilitation, neurological surgery, neurodevelopment, and the basic neurosciences. The purpose of the training program is to prepare the residents for the independent practice of clinical child neurology. The training is based on supervised clinical work, with increasing responsibility for outpatients and inpatients.

The purpose of the training program is to prepare the residents for the independent practice of clinical child neurology. The training is based on supervised clinical work, with increasing responsibility for outpatients and inpatients.

On the pediatric neurology rotation, you will take home call for pediatric neurology at Children's of Alabama. There are several in-house pediatric residents on-call every night who cross-cover the neurology inpatients/consults and see new consults and admit new patients. Your role will be to provide backup and assistance (almost exclusively over-the-phone) to the in-house residents.

Please feel free to call us with additional questions and we look forward to hearing from you!

Fellowship Director:

Tony McGrath, MD

Residency:
Neurology, University of Oklahoma

Fellowship:
Neurology, UAB



Division Research Activities:

Faculty:

- ◆ Kankirawatana, P/Singh, R/ Kumar, A: Assess Safety and Tolerability of Topiramate as Monotherapy Compared with Levetiracetam as Monotherapy in Pediatric Subjects with New or Recent -Onset Epilepsy
- ◆ Kankirawatana, P/McGrath, T: Childhood Absence Epilepsy
- ◆ Ness, J: Clinical Trials: Pediatric Multiple Sclerosis and Pediatric Neuromyelitis Optica

Fellows:

- ◆ Kumar, A: Trends of Anti-Epileptic Drug use in Pediatric Neurology Fellows Clinics at UAB
- ◆ Trends of Video EEG Monitoring in Pediatric Intensive Care Unit at Children's of AL

Our Child Neurology Fellows:



Ashutosh Kumar, MD



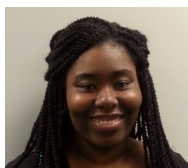
Sarah Novara, MD



Lydia Marcus, MD

Fellowship Coordinator:

Charmaine Echols
cechols@peds.uab.edu
205-996-7859



Recent Division Awards and Achievements:

Pierre Fequiere, MD, Assistant Professor of Pediatrics in Division of Neurology named one of Birmingham Parent Magazine's *Favorite Kids' Docs*, December 2014



Critical Care Medicine

About Us:

Our fully accredited 3-year program combines research and clinical experience that makes our graduates eligible and prepared for the American Board of Pediatrics Subspecialty Board exam in Pediatric Critical Care Medicine. The goal of the Pediatric Critical Care Fellowship Program is to provide trainees with the education, clinical experience, research training, and technical skills necessary to become excellent intensivists who are ready to achieve success in the academic setting. The 36-month curriculum includes 17.5 months clinical service, 18.5 months protected research time, and 9 weeks vacation. We have a 100% pass rate for first time board takers. The Pediatric Intensive Care Unit at Children's of Alabama is a 22 bed unit with approximately 1,400 admissions per year. Pediatric Critical Care fellows learn to diagnose and care for patients with a wide variety of conditions such as multiple traumas, respiratory failure, surgical diagnoses, shock, and multi-organ dysfunction. In addition, Critical Care fellows spend four months in the Cardiac Intensive Care Unit, which is a 20 bed unit with greater than 300 pump cases and 500 surgeries per year.

Our Critical Care Medicine Fellows:



Sangeetha Rao, MD



Robert Richter, MD



Nathan Swinger, MD



Ashley Brown, MD



Steven Nye, MD



Nicki Sims, MD

Fellowship Director:

Priya Prabhakaran, MD

Residency:

Pediatrics, University of Alabama, Birmingham

Fellowship:

Baylor College of Medicine, Houston, TX
University of Alabama at Birmingham, Birmingham, AL

Fellowship Coordinator:

Vanessa Snider

Phone: 205-638-3342

Email: vsnider@peds.uab.edu

Division Research Activities (examples):

Faculty:

- ♦ Participation in several multi-centered funded clinical trials. ABC—Age of Blood in Children in the PICU, ADAPT—Approaches and Decisions for Acute Pediatric TBI
- ♦ Matrix Metalloproteinase Driven Lung Inflammation in RSV disease
- ♦ Educators in Pediatric Intensive Care (EPIC) investigators network

Fellows:

- ♦ MALDI (Matrix associated laser desorption and ionization): Using This Novel Technique to Assess Lipid Changes in AKI
- ♦ Standardized Antibiotic Selection/Duration for Septic Shock in the PICU
- ♦ Successful Continuous Renal Replacement Therapy using Two Single-Lumen Catheters in Neonates and Infants with Cardiac Disease

Recent Division Awards and Achievements:

Michele Kong, MD, Assistant Professor of Pediatrics, is the 2015 junior faculty winner of the Dean's Excellence Award for Service.

Nancy Tofil, MD, Associate Professor of Pediatrics, received the 2015 Ralph Tiller Distinguished Faculty Award: This award recognizes the faculty member the senior resident class believes has contributed most to their overall education and training experience.

Sangeetha Rao, MD, 3rd Year Fellow, was selected to receive one of the 2015 Dixon Fellowship Awards.



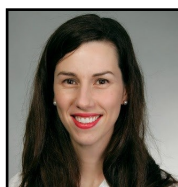
Emergency Medicine

The Pediatric Emergency Medicine fellowship program at the UAB has been in existence for over 30 years. We are housed in a Level 1 trauma center dedicated to the care of children. We accept 3 fellows per year, who join fellows from 17 other divisions.

A number of electives are offered and a significant amount of "protected" research time is allowed throughout the training period. Our fellows take classes at the School of Public Health to acquire basic research tools – an excellent opportunity available in few programs. We believe our program is unique in that we offer a State-of-the-Art Simulation Center and our Regional Poison Control Center is located within our institution. At graduation our fellows are prepared clinically in all aspects of Pediatric Emergency Medicine. We have a greater than 90% pass rate for first time board takers and our fellows find faculty positions coast to coast.

Please feel free to call us with additional questions and we look forward to hearing from you!

Our PEM Fellows:



Christine Campbell



Shea Duerring



Johanna Hall



Kim Massey



Megan Brennard



Jon Buice



Langston Lee



Todd Fleenor



Josh Haupt



Kathleen Richard

Fellowship Director:

Ann E. Klasner, MD, MPH

Residency:

Pediatrics, University of Arkansas

Fellowship:

Pediatric Emergency Medicine,
St. Louis University



Assistant Fellowship Director:

Terri Coco, MD

Residency:

Pediatrics, UAB

Fellowship:

Pediatric Emergency Medicine, UAB



Division Research Activities (examples):

- ◆ Asthma Pathway Effect on Length of Stay
- ◆ Febrile Sickle Cell Patients, ED Time to Antibiotics
- ◆ Herpes Simplex Virus (HSV) Infection in Young Infants
- ◆ The Pediatric Septic Shock Collaborative
- ◆ Evaluating potential variations in triage based on ethnic origin
- ◆ Evaluation of distracted driving behaviors in parents in children in suburban, urban and rural areas in Alabama
- ◆ Using an Established Simulation Curriculum for EMS
- ◆ Does Utilizing Child Life in the ED Improve Emotional Responses of Children Undergoing

Recent Division Awards and Achievements:

Michelle Nichols, MD, professor of Pediatrics in the Division of PEM is the senior faculty winner of the Dean's Excellence Award in Education.

David Smith, MD, 2015 fellow graduate received Clinical Research Fellows' Award of 2015 for research completed during fellowship

Rami Sunallah, MD, 2015 fellow graduate received the SOME Willis Wingert Award in 2014 for research completed during fellowship

Christopher Pruitt, MD, was selected as the winner of the 2015 SSPR Young Faculty Award

Fellowship Coordinator:

Mackenzie Stanford

mstanford@peds.uab.edu

205-638-6557





Endocrinology

About Us:

The Pediatric Endocrinology fellowship program at the University of Alabama at Birmingham has a long-standing commitment to fellowship education, through a vast clinical experience and variety of research opportunities. As part of the Children's of Alabama team, we have a flourishing inpatient service and outpatient clinic. Our division currently consists of eight faculty members, and we accept one fellow per year to join our team.

Our fellowship curriculum is a balance of inpatient and outpatient clinic rotations, with ample time devoted to developing research and/or career interest. Fellows are encouraged to participate in other institutional clinical experiences here at UAB, including genetics, reproductive endocrinology, and adult endocrinology. Research experiences can be through our Division, or through the vast other resources here at UAB. These may include basic science, clinical or transitional research, as well as projects in medical education. Our fellows follow their clinic interests and develop a foundation for their future careers in medicine.

We are dedicated to providing an exemplary fellowship and welcome hearing from you regarding any questions you may have.

Our Pediatric Endocrinology Fellows:



Alexandra Martin, MD

Residency:

University of Tennessee at Chattanooga



Shelly Mercer, MD

Residency:

University of Alabama at Birmingham



Apisadaporn Thambundit, MD

Residency:

University of Florida



Fellowship Coordinator:

Toni Davison

205-996-9196

tdavison@peds.uab.edu

Fellowship Director:

Michael S. Stalvey, MD

Residency:

Department of Pediatrics,
University of Florida

Fellowship:

Department of Pediatrics,
Division of Pediatric Endocrinology,
University of Florida



Division Research Activities (examples):

Faculty:

- Pathogenesis of type 1 and type 2 diabetes
- Cardiovascular risk, insulin resistance and vitamin D
- Endoplasmic reticulum enzymes and metabolism
- Abnormalities of linear growth and bone metabolism in cystic fibrosis
- Effects of cigarette smoke on glucose regulation and bone metabolism
- Pathogenesis of cystic fibrosis related diabetes
- Newborn screening and follow-up of congenital hypothyroidism and congenital adrenal hyperplasia
- New technologies in diabetes management
- Feasibility of non-mydriatic retinal screening during endocrine clinic for children with diabetes
- Factors influencing dyslipidemia in children and adolescents

Fellows:

- Preventing further beta cell loss in new-onset type 1 diabetes
- Insulin delivery and modality effects on body composition in type 1 diabetes
- Pathway-driven DKA management and effects on hospital outcomes





Gastroenterology, Hepatology, and Nutrition

About Us:

Our fellowship program is designed to provide subspecialty residents in gastroenterology with the background and experience to diagnose and manage patients with acute and chronic diseases of the digestive system (esophagus, stomach, intestines, liver, and pancreas), including those that are life threatening, and to conduct research in this specialized field. Residents will be guided in developing clinical judgment and skills and in acquiring medical knowledge, humanistic qualities, and professional attitudes and behaviors that are appropriate for the pediatric gastroenterologist.

The goals of this program include developing decision making skills in cost-effective, efficient evaluation and management of a wide variety of presenting complaints; to train and develop skills in appropriate laboratory testing, procedures including indications, preparation, techniques and interpretations; and provide mentoring and opportunities for clinical or laboratory based research.

Fellowship Director:

Jeanine Maclin, MD, MPH

Assistant Professor
Co- Director, Inflammatory
Bowel Disease Clinic

Residency:

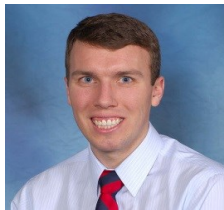
Pediatrics, UAB

Fellowship:

Pediatric Gastroenterology,
UAB



Pediatric Gastroenterology, Hepatology, and Nutrition Fellows:



Nick CaJacob, MD

Second Year
Residency: UAB



Osman Ahmad, MD

First Year
Residency: Maimonides Medical Center

GI Faculty

Reed Dimmitt, MD, DVM, MSPH

Professor

Division Director

Mitchell B. Cohen, MD

Katharine Reynolds Ireland Professor

Chair, UAB Department of Pediatrics

Traci Jester, MD

Assistant Professor

Co- Director, Inflammatory Bowel Disease Clinic

Jose Mestre, MD

Professor

Janaina Nogueira, MD

Assistant Professor

David Galloway, MD

Assistant Professor

Division Research Activities:

Faculty:

- ◆ Simulation as a teaching tool in Pediatric Gastroenterology
- ◆ Cohort Study of Disease Education and Medication Adherence in patients attending a specialized Pediatric Inflammatory Bowel Disease Clinic

Fellows:

- ◆ Eosinophilic esophagitis: Analyzing the Microbiome

Fellowship Coordinator:

Shea Keith

skeith@peds.uab.edu

205-638-5191



Pediatric Hematology/Oncology

About Us:

The **mission** of the Division is to improve the quality of young lives and cure children with childhood cancer and blood disorders through excellent care, education, and research.

The Division **goals** are to serve children and young adults with childhood cancer and blood disorders through the southeastern United States; to give state-of-the-art personalized clinical care to patients; to educate and train the public, families, patients, and healthcare professionals in the care of childhood cancer and blood disorders; and to pursue a clinical translation of basic research focused on childhood cancer and blood disorders. These goals are accomplished with the dedicated efforts of the UAB faculty teamed with an extensive support staff of UAB, Children's of Alabama.

Two fellows are accepted into the program each year. 1st year Fellows enjoy the opportunity to care for a diverse patient population. 2nd and 3rd year fellows use protected time for scholarly activity, can take advantage of world class basic science and clinical research faculty throughout the UAB Campus.

The Division boasts exceptional programs in patient care, education and research. Enter our website through the **link** to learn more about our programs.

<http://www.uab.edu/medicine/hemonc/fellowship>

Fellowship Director:

Kimberly Whelan, MD, MSPH

Associate Professor of Pediatrics

Medical Director, Taking on Life after Cancer clinic



Residency:

Vanderbilt University Medical Center

Fellowship:

University of Alabama at Birmingham
Pediatrics Hematology & Oncology

Current Division Research includes:

Faculty:

Bhatia S: Cancer outcomes and survivorship to reduce the burden of cancer and its sequelae across all segments of the population through collaborative efforts.

Cramer S: Heads up the Program of Developmental Therapeutics .

Freidman G: Improve outcomes for children with malignant brain tumors by developing and improving novel, targeted therapeutics like oncolytic engineered herpes simplex virotherapy (oHSV) in the lab and then translating these therapies to clinical trials .

Goldman E: Studies of new gene transfer methods to treat Marrow failure syndromes and disorder of hematopoiesis.

Fellows:

McDaniel J: investigating the role of complement activation of Neutrophil extracellular trap formation in TTP.

Hamm J: Investigating novel markers of sickle cell hemolysis and vascular injury.

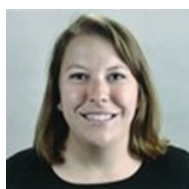
Ring E: Exploring oncolytic viral vectors in solid tumors.

Sorge C: Role of Pre-B cell receptor in acute lymphocytic leukemia .

Our Hematology/Oncology Fellows:



Jennifer Hamm



Caryn Sorge



Jenny McDaniel



Eric Ring



Jamie Aye



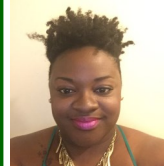
Corey Falcon

Fellowship Coordinator:

Kimberly Threadgill

kthreadgill@peds.uab.edu

205-638-6194



Recent Division Awards, Achievements & Grants

Faculty:

Lebensburger J: American Society of Hematology 2015 Scholar Award.

Madan-Swain A: 2015 Deans Excellence Award in Service

Fellows:

Edrees N: 2015 SSPR/APA Trainee Travel Award

Hamm J: Dixon Award 2015

2015 ASH Research Training Award Finalist

LeBlanc Z: Dixon Award 2014



Hospice and Palliative Medicine

About Us:

The UAB Palliative Medicine Fellowship Program has been training leaders in palliative medicine since 2000, making it one of the oldest and most established training programs in the country. To date, we have trained over 30 fellows from across the country. Our one-year fellowship offers a rigorous interdisciplinary education in palliative care at UAB Hospitals, the Birmingham VA Medical Center, and Children's of Alabama. Fellows also receive training in the outpatient setting through the UAB Supportive Care & Survivorship Clinic, the UAB HIV Palliative Care Clinic, and through partnerships with community hospices and long term care facilities.

In addition to clinical skills, the curriculum includes training in research methodology and quality improvement, teaching skills, and palliative care and hospice business and administration. The balance and breadth of experience ensures that fellows are ready to practice in the inpatient, ambulatory, or hospice settings upon completion of the fellowship training.

We accept four fellows per year, including one in our Pediatric track. They join pediatric fellows from 17 other divisions here at Children's of Alabama.

Please feel free to call us with additional questions and we look forward to hearing from you!

Fellowship Director:

Michael D. Barnett, MD, MS

Residency:

Internal Medicine-Pediatrics, UAB

Fellowship:

Hospice & Palliative Medicine, University of Pittsburgh



Division Research Activities (examples):

Faculty:

- ♦ Early Palliative Care Intervention in Cancer & Advanced Heart Failure
- ♦ Decision-Making in Left Ventricular Device Placement
- ♦ Chronic Pain Management in HIV
- ♦ Upstream Palliative Care in the Ambulatory Setting

Fellows:

- ♦ Delirium Assessment & Prevention in the Emergency Department
- ♦ Ethics of Physician-Aided Dying
- ♦ Single Fraction Radiation Therapy for Bony Metastases
- ♦ Subcutaneous Dosing of Antiepileptic Medications in Palliative Care

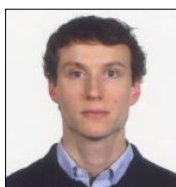
Our Hospice-Palliative Medicine Fellows:



Quintesia Grant



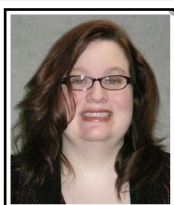
Erica Leonard



Lucas McElwain



Matt Rhinewalt



Education Coordinator:

Rachel Metcalf

rmetcalf@uabmc.edu

205-934-7972

Recent Division Awards and Achievements:

Rodney O. Tucker, MD, MMM, is the Section Chief for Palliative Medicine and serves as the Chief Experience Officer for UAB Medicine.

Jessie Merlin, MD, MBA, Assistant Professor in the Division was selected as one of the most inspiring leaders under 40 in the American Academy of Hospice & Palliative Medicine.

UAB Center for Palliative & Supportive Care received a Circle of Life Citation of Honor Award from the American Hospital Association in 2014.



Hospital Medicine

About Us:

The Pediatric Hospital Medicine (PHM) Fellowship Program trains specialists in hospital medicine who will have clinical skill mastery, research excellence, and the capacity to become leaders in the field of hospital medicine via structured seminars, clinical experience, and directed study.

Our core lecture series promote education on health information systems, study design, and basic biostatistics, among other topics. All of our PHM fellows complete a research project that will contribute to the field of pediatric hospital medicine in its broadest sense, as well as the opportunity to build a disease-specific clinical pathway. Fellows engage in research projects focused on quality improvement, clinical problems, or medical education during the course of our two year fellowship.

Please feel free to contact us with additional questions and we look forward to hearing from you!

Fellowship Director:

Sri Narayanan, MD

Residency:
Pediatrics, Case Western Reserve University



Assistant Fellowship Director:

Chang L. Wu, MD MSCR

Residency:
Pediatrics, Medical University of South Carolina

Fellowship:
Academic Generalist / Health Services Research Fellowship Program, Medical University of South Carolina



Our Pediatric Hospital Medicine Fellows:

Second Year Fellows:



Rebecca M. Cantu, MD MPH
Tulane University



Meghan E. Hofto, MD
Cincinnati Children's

First Year Fellows:



Kathryn Hines, MD
University of Alabama at Birmingham



Cassi Smola, MD
University of Alabama at Birmingham

Selected Research Activities:

Fellows:

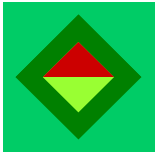
- ◆ Demographic Predictors of Length of Stay Among Children with Asthma
- ◆ Hospital Resource Utilization of Children with Submersion Injuries
- ◆ Adherence to Guidelines in the Treatment of Community Acquired Pneumonia

Faculty:

- ◆ Repeat Dexamethasone Dosing for Inpatients with Croup
- ◆ Cohort Turnover and the Risk of Medication-Related Harm
- ◆ Weekend Admissions and Resource Utilization Among Children with Osteomyelitis
- ◆ Resource Utilization Among Children with Complex Febrile Seizures
- ◆ Initial Vancomycin Dosing Patterns Among Children Hospitalized for Acute Osteomyelitis
- ◆ Use of Simulation to Demonstrate Diagnostic Error in Medical Decision Making

Fellowship Contact:

Sri Narayanan, MD
snarayanan@peds.uab.edu
205-638-9922



Infectious Diseases

About Us:

The training program in Pediatric Infectious Diseases provides subspecialty residents with the background and experience that will enable them to provide optimal care and consultation to pediatric patients with infectious diseases. The training experience includes a properly balanced, well-organized and progressive clinical, technical, teaching, research, and consultative experience. The program encompasses basic concepts in immunology, epidemiology, and infection control as they relate to patient care and training in the prevention of infectious diseases.

Our curriculum is designed to:

- Present a wide variety of acute and chronic infectious diseases, including disorders of host defense;
- Prepare the subspecialty resident to understand and deal with the principles of disease control, prevention of nosocomial infections, and immunization programs;
- Teach basic epidemiologic and biostatistical methods and their application to clinical research and patient care;
- Teach the subspecialty resident the functions and appropriate utilization of diagnostic microbiology, immunology, virology, mycology, and parasitology laboratories;
- Prepare the subspecialty residents to conduct research in the broad area of pediatric infectious diseases;
- Ensure acquisition of appropriate teaching skills that can be used in the area of pediatric infectious diseases.

Please feel free to call us with additional questions and we look forward to hearing from you!

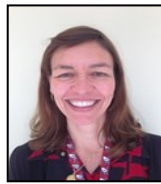
Our Pediatric Infectious Disease Fellows



Aaron Grubbs, MD



Catherine Hough-Telford, MD,



Claudette Poole, MD

Recent Division Awards and Achievements:

Suresh Boppana, MD, was awarded the inaugural Congenital CMV Award at the 5th International Congenital CMV Conference in Brisbane, Australia, in April 2015.

David Kimberlin, MD, has been reappointed as Editor of the American Academy of Pediatrics' 2018 Red Book. He served as Editor of the recently published 2015 Red Book, and as Associate Editor for the 2012 and 2009 Red Books.

The Pediatric ID faculty have \$15 M in extramural funding for their research.

Fellowship Director:

David Kimberlin, MD

Residency:

Pediatrics, University of Texas Southwestern Medical School

Fellowship:

Pediatrics, University of Texas Southwestern Medical School and University of Alabama at Birmingham



Richard Whitley, MD

Past-President of the Pediatric Infectious Diseases Society of America



Division Research Interests:

- ◆ Neonatal herpesvirus infections
- ◆ Antiviral therapy for pediatric viral infections
- ◆ National vaccine policy
- ◆ Antiviral therapy for congenital and neonatal herpesvirus infections
- ◆ Congenital CMV and hearing loss
- ◆ Correlates of protective immunity against congenital CMV infection
- ◆ CMV virion assembly
- ◆ Animal models for CMV neuropathogenesis and hearing loss
- ◆ HSV gene therapy
- ◆ Perinatal HIV infection
- ◆ Streptococcus pneumoniae
- ◆ Epidemiology of maternal and congenital infections
- ◆ Epidemiology and diagnosis of perinatal and congenital infections
- ◆ Natural history of HIV infections in children
- ◆ Antiviral resistance in herpesvirus infections
- ◆ Antiviral drug development
- ◆ Mechanisms of herpes virus drug resistance
- ◆ Kaposi's Sarcoma Herpesvirus
- ◆ Animal models for viral diseases and antiviral drug testing
- ◆ Pathogenesis of congenital cytomegalovirus related hearing loss
- ◆ Maternal cytomegalovirus infections



Fellowship Coordinator:

Tracy Downey

tdowney@peds.uab.edu

205-996-7782



Neonatal-Perinatal Medicine

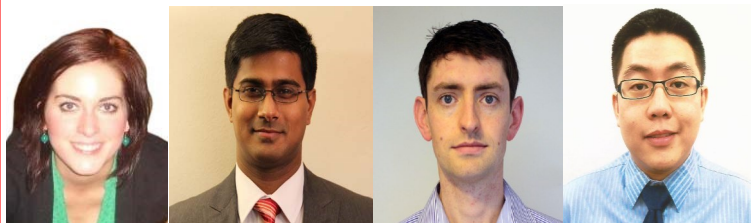
About Us:

Our comprehensive fellowship program provides an excellent educational, clinical, and research experience to help train the next generation of academic neonatologists. We place emphasis on excellence in basic science and clinical research with up to two thirds of the fellowship time dedicated to research.

The Division of Neonatology is a leader in the field, providing clinical coverage and leadership for two level IV neonatal ICUs and four level III and one level II neonatal ICUs in the greater Birmingham area. Our fellows rotate through the 120-bed Regional NICU at UAB, the 48-bed NICU at Children's of Alabama (the regional ECMO center), and the Cardiac ICU.

Areas of current research interest include lung development, bronchopulmonary dysplasia, pulmonary hypertension, neonatal infections, oxygen free-radicals and antioxidants, assisted ventilation, mediators of infection and inflammation, necrotizing enterocolitis, developmental immunology, perinatal epidemiology and clinical trials. Five full-time research nurses support fellows and faculty members on clinical research projects.

Our Neonatology Fellows:



Erin Mack Prabhu Viswanathan Colm Travers Aaron Yee



Pankaj Jain Samuel Gentle Rachael Tindell Christine Stoops



Fellowship Coordinator:

Stacey Adewakun

sadewakun@peds.uab.edu

205-934-4680

Fellowship Director:

Namasivayam Ambalavanan, MD

Residency:

Pediatrics, University of Alabama at Birmingham

Fellowship:

Neonatology Fellowship
University of Alabama at Birmingham



Division Research Activities (examples):

Faculty:

- ♦ Waldemar A. Carlo MD: Global neonatal research (projects in Zambia and other developing countries) and Neonatal Clinical Trials as a center PI for the Neonatal Research Network.
- ♦ Namasivayam Ambalavanan MD: Lung development and injury. PI of a research center in the LungMAP project.
- ♦ Trent Tipple MD: Antioxidants and lung injury.
- ♦ Vivek Lal MD: MicroRNA and lung injury; Lung microbiome in BPD
- ♦ Brian Sims MD PhD: White matter injury in preterm infants
- ♦ George Ferzli MD: Lung Assist Device; Ventilator induced lung injury
- ♦ Tamas Jilling MD: Necrotizing enterocolitis
- ♦ Jegen Kandasamy MD: Mitochondrial bioenergetics in preterm infants
- ♦ Ariel Salas MD: Randomized clinical trials in neonatology

Recent Division Awards and Achievements:

- Waldemar A. Carlo MD: Apgar Award 2012; SPR Douglas Richardson Award 2015
- Namasivayam Ambalavanan MD: SSPR Founder's Award 2015
- Grant Funding: NIH U10 HD 034216 (Carlo), U10 HD078437 (Carlo), R03 HD079867 (Carlo), U01 HL122626 (Ambalavanan), R01 HD067126 (Ambalavanan), R01 HL119280 (Tipple)



Nephrology

About Us:

The Pediatric Nephrology fellowship program at the UAB has been in existence for over 20 years. We are housed in a Level 1 trauma center dedicated to the care of children. We accept one fellow per year who joins fellows from 17 other divisions.

The first year of fellowship concentrates on clinical training with intensive research training in the second and third years. Elective rotations consist of pathology, urology, and interventional nephrology. Available research collaborations across UAB encompass basic science, adult nephrology, and pediatric nephrology.

Additional program training resources include the possibility of obtaining a Masters in Public Health, a State-of-the-Art Simulation Center located within our institution, the UAB Institute of Personalized Medicine, the UAB Comprehensive Transplant Institute, Health Disparities Research Center, and the Pediatric and Infant Center for Acute Nephrology (PICAN). Upon program completion, our fellows are prepared clinically in all aspects of Pediatric Nephrology.

Fellowship Director:

Daniel I. Feig, MD, PhD, MS

Residency:

Pediatrics, University of Washington

Fellowship:

Pediatric Nephrology,
Harvard University



Fellowship Co-Director:

Monica Cramer, DO, MPH

Residency:

Pediatrics, University of South Carolina

Fellowship:

Pediatric Nephrology, UAB



Division Research Activities:

- ◆ Nephrotoxic Injury Negation by Just-in-time Action (NINJA)
- ◆ The Genetic Contribution to Drug Induced Renal Injury: The Drug Induced Renal Injury Consortium (DIRECT)
- ◆ Physiology of Early Essential Hypertension
- ◆ Genetics of Renal Cystic Disease
- ◆ Role of Vasculature in Chronic Kidney Transplant Dysfunction
- ◆ Prevention of Sickle Cell Nephropathy
- ◆ Pharmacogenomics of Immunosuppressives and Anti-Hypertensives (Personalized Medicine Initiative)

Current Fellow:

2014-2017



Megan Yanik, MD

Recent Graduate:

2008-2011



Monica Cramer, DO

Additional Program Faculty:



Sahar Fathallah,



Michael Seifert, MD



David Askenazi, MD

Fellowship Coordinator:

Jessica Williams

jwilliams@peds.uab.edu

205-638-6784

Recent Division Publications:

Pharmacokinetics, Pharmacodynamics, and Safety of Lisinopril in Pediatric Kidney Transplant Patients: Implications for Starting Dose Selection. Clin Pharmacol Ther. 2015 Jul;98(1):25-33. (Feig)

Impact of gestational age, sex, and postnatal age on urine biomarkers in premature neonates. Pediatr Nephrol. 2015 May 23.(Askenazi)

Progression of pediatric CKD of nonglomerular origin in the CKD cohort. Clin J Am Soc Nephrol. 2015 Apr 7;10(4):571-7. (Fathallah)

Cystic Kidney Disease: A Primer. Adv Chronic Kidney Dis. 2015 Jul;22(4):297-305. (Cramer)

Kidney transplant results in children: progress made, but blacks lag behind. Kidney Int. 2015 Mar;87(3):492-4. (Seifert)

Serum urate: a biomarker or treatment target in pediatric hypertension? Curr Opin Cardiol. 2013 Jul; 28(4):433-8. (Yanik)



Pulmonology

About Us:

Our pediatric pulmonary training program provides residents with the background to diagnose and manage pediatric patients with acute and chronic respiratory disorders, including those that are life threatening, and prepares residents to conduct research in this field. Our training program is complemented by our UAB Pediatric Pulmonary Center which is one of five educational and traineeship programs funded through a competitive federal grant through MCHB and HRSA. The program emphasizes normal pulmonary physiology in pediatric patients and correlation of pathophysiology with clinical disorders. The training is designed to develop the subspecialty resident's competence in the clinical diagnosis, pathophysiology, and medical treatment of respiratory disorders in pediatric patients.

The overall goal of the pediatric pulmonary residency program is to train highly qualified physician scientists who will contribute substantially to this field through exemplary patient care, original research, and teaching. The residents will achieve this goal through the following objectives:

- Proficiency in the clinical diagnosis and medical treatment of acute and chronic respiratory diseases including those that are life threatening in infants, children, adolescents and young adults.
- Proficiency in the selection, performance, and evaluation of procedures necessary for the morphologic and physiologic assessment of pulmonary diseases;
- Developing a comprehensive knowledge of the pathophysiology of pediatric respiratory disorders through self-study and formal course work, lectures and seminars offered as part of the training program;
- Acquiring effective teaching and communication skills;
- Understanding the psychosocial aspects of respiratory diseases, develop skills in counseling and become knowledgeable of the ethical issues related to respiratory diseases;
- Developing the administrative skills necessary to operate a pediatric pulmonology facility including knowledge of staffing needs, unit management, program development, and grant proposals.
- Acquiring the necessary research skills to design, conduct, evaluate and prepare for publication a clinical or laboratory research project through experience, mentoring and formal courses in research design, biostatistics, and epidemiology.

Our Pediatric Pulmonary Fellows:



Jessica Brown, D.O.
Third Year
Residency: University of Florida,
Shands Hospital

Matthew Kreth, MD

Third Year
Residency: UA School of Medicine



Brett Turner, MD
Dixon Fellow
Third Year
Residency: UA School of Medicine

Fellowship Coordinator:

Leslie Jones
ljones@peds.uab.edu
205-638-6766



Fellowship Director:

Wynton Hoover, MD



Residency:

Pediatrics, University of Florida
Sacred Heart Women's and
Children's Hospital Pensacola, FL

Fellowship:

Pediatric Pulmonary, Indiana University Pediatrics
Riley Hospital for Children Indianapolis, IN

Interests: Clinical care of general pediatric respiratory disorders, primary ciliary dyskinesia and complications of cystic fibrosis. Clinical research in CF involving the prevention and eradication of pseudomonas prior to chronic colonization. Quality improvement initiatives pertaining to the care of cystic fibrosis.

Current Division Research:

Faculty:

- Gutierrez H: Transformative Integrated Model for Continuous CF Care UAB Cystic Fibrosis Center for Care, Teaching and Research
- Rowe S: A Two-Part Multicenter Prospective Longitudinal Study of CFTR-Dependent Disease Profiling in Cystic Fibrosis
- Hoover W: Prevalence and Significance of Staphylococcus Aureus Small-Colony Variants in CF; SHIP—Inhaled Hypertonic Saline in Preschool Children with CF

Fellows:

- Kreth M: Gastrographin Enema Order Safety Project; Nationwide Safe Sleep Marketing Research Project; Pulmonary iConnect Orderset Improvement Project
- Turner B: In Vivo imaging of ciliary function in PCD using novel video microscopy; Documentation and Continuity of Care in inpatient Pulmonary Consultation of Neonates with BPD at Children's of Alabama

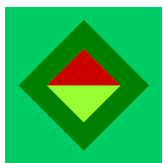
Recent Division Awards and Achievements:

William "Tom" Harris, MD Assistant Professor of Pediatrics has received the Rud Polhill Grant for Junior Faculty.

Brett Turner, MD was awarded the Dixon Foundation Scholarship and the 2015 Quarterback Club Sub-specialty Education Award.

Wyn Hoover, MD has been awarded the Department of Pediatrics Excellence in Teaching award 2011—present.

Multiple faculty have been continuously recognized in Best Doctors in America ® database.



Rheumatology

About Us:

The Pediatric Rheumatology fellowship program at UAB was ACGME approved in 2009, two years after the Division of Pediatric Rheumatology was created in 2007. The faculty has grown to six board certified pediatric rheumatologists with three nurse practitioners, making it the largest program in the southeastern United States. A generous donation/endowment allows us to accept one fellow every three years, but we are flexible to add more.

We practice and impart a reasoned early and aggressive approach to therapy for children with rheumatic diseases, employing a broad range of biologic therapies. A significant amount of "protected" research time (2 of the 3 years) is granted throughout the training period. Those fellows not working in a basic science laboratory are strongly encouraged to get an advanced degree at UAB in public health, clinical epidemiology, or a related field of interest. At graduation, our fellows are well prepared clinically in all aspects of Pediatric Rheumatology. We have a 100% pass rate (1 for 1) for first time board takers, and our first fellow is now one of our faculty.

We welcome all inquiries.

Our Kennedy Pediatric Rheumatology Fellow for 2014-2017:



Lauren "Beth" Shipman, MD

Medical School: University of Arkansas

Residency: University of South Florida

Fellowship Coordinator:

Scott DeFreese

sdefreese@peds.uab.edu

205-934-1180

Fellowship Director:

Randy Q. Cron, MD, PhD

Residency:

Pediatrics, Stanford University

Fellowship:

Pediatric Rheumatology,
University of Washington



Assistant Fellowship Director:

Peter Weiser, MD

Residency:

Pediatrics, University of Buffalo

Fellowship:

Pediatric Rheumatology,
Washington University



Division Research Activities (examples):

- ◆ Diagnosis, Genetics, Pathophysiology, and Treatment of Macrophage Activation Syndrome (MAS)
- ◆ Diagnosis and Treatment of Inflammatory Temporomandibular Joint (TMJ) Arthritis in Childhood Rheumatic Diseases
- ◆ Gut Microbiota and the Adaptive Immune Response in Spondyloarthritis
- ◆ Optimizing Treatment of Juvenile Idiopathic Arthritis (JIA), including Comparative Effectiveness of Treatment Modalities
- ◆ Outcomes of JIA in Adulthood
- ◆ HIV-1 Transcriptional Regulation and Latency Establishment in CD4 T Lymphocytes and Macrophages
- ◆ Use of Ultrasonography to Clinically Monitor Linear Scleroderma and Morphea

Recent Division Awards and Achievements:

Randy Q. Cron MD, PhD, Professor of Pediatrics in the Division of Rheumatology, was elected into the American Pediatric Society (APS).

Timothy Beukelman MD, MSCE, Associate Professor, was chosen as the Scientific Director of the CARRA Pediatric Rheumatology patient registry.

Mathew L. Stoll, MD, PhD, MSCS, Associate Professor, was recently awarded an NIH R21 grant to assess interactions of gut microbiota and murine arthritis.

Melissa Mannion, MD, MSPH, Instructor, was selected as 1 of 2 ACR travel grants recipients to attend the OMERACT 12 conference in Budapest, Hungary.



Sleep Medicine

About Us:

The Sleep Medicine fellowship program at UAB is a one year fellowship program that focuses on sleep physiology, diagnosis and the treatment of sleep disorders in adults and children.

The Fellows rotate at the Sleep Disorder Center at Children's Hospital and at the UAB Highlands Sleep Disorder Center. Each training site has a unique patient population and faculty with diverse clinical and research experiences.

The Sleep Disorder Center at Children's of Alabama is one of the busiest pediatric sleep disorder centers in the country. The center is an 8 bed facility and performs over 1500 sleep studies per year. Infants and children with a wide variety of sleep disorders are evaluated on both an outpatient and inpatient basis. Areas of particular interest include behavioral management of pediatric sleep disorders including positive airway pressure therapy in children with developmental disabilities, movement disorders, pediatric narcolepsy, pediatric insomnia, sleep related breathing disorders in children with neuromuscular disorders and sleep disturbances in children with chronic disease.

The UAB Highlands Sleep Disorder Center is an 10 bed accredited sleep disorder center located within the University Medical Complex. The center provides outpatient evaluations, inpatient consults and sleep testing for adults with a wide variety of sleep disorders. The center has a long track record of clinical excellence, productive research and training sleep medicine fellows.

Our Sleep Medicine Fellows:



Margaret Forszpaniak, D.O.

Residency: Psychiatry Residency, University of Mississippi Medical Center Jackson, MS.

Fellowship: Child and Adolescent

Psychiatry, University of Mississippi Medical Center Jackson, MS.



Pallavi Reddy, MD

Residency: Family Medicine, University of Louisville, Glasgow, KY.

Interests: Narcolepsy, REM sleep behavior disorder and Obstructive sleep apnea



Fellowship Coordinator:

Leslie Jones

ljones@peds.uab.edu

205-638-6766

Fellowship Director:

David Lozano, MD

Residency:

Pediatrics, Sacred Heart Children's Hospital

Fellowship:

Pediatric Pulmonary, UAB



Assistant Fellowship Director:

Kristin Avis, Ph.D., CBSM

Postdoctoral Training:

John Hopkins University School of Medicine/Kennedy Krieger Institute, Predoctoral Internship and Postdoctoral Fellowship in Pediatric Psychology.



Current Sleep Medicine Faculty:

Kristin Avis, PhD, CBSM

Associate Professor, Division of Pediatric Pulmonary & Sleep Medicine

Board Certified in Behavioral Sleep Medicine

Amy Amara, MD, PhD

Assistant Professor, Division of Adult Neurology

Board Certified in Neurology & Sleep Medicine

David Calhoun, MD

Associate Professor, Division of Cardiovascular Disease

Board Certified in Pulmonary & Sleep Medicine

Jennifer DeWolfe, DO

Assistant Professor, Division of Adult Neurology

Board Certified in Sleep Medicine

Susan Harding, MD

Professor, Division of Pulmonary, Allergy & Critical Care

Board Certified in Sleep Medicine

Jeffrey W. Hawkins, MD

Clinical Assistant Professor of Medicine, Division of Pulmonary,

Allergy & Critical Care, Board Certified in Pulmonary & Sleep Medicine

David Lozano, MD

Associate Professor, Division of Pediatric Pulmonary & Sleep Medicine

Recent Division Awards and Achievements:

Amy Amara, MD, PhD, Neurology, received a K23 Grant on The Effect of Low Frequency STN DBS on Sleep and Vigilance in PD Patients.

Kristin Avis, PhD, Sleep Medicine, received a ResMed Foundation grant for \$84K for two years.

David Calhoun, MD, Cardiovascular Disease, received an NIH/NHLBI Grant for Mechanisms of Refractory Hypertension for five years.



Alumni List (1991-Present*)

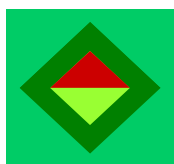
* several divisions with prior alumni

LAST NAME	FIRST NAME	END DATE
Adolescent Medicine		
Foch	Bertrand	1991
Cotton	Byron	1992
Genuardi	Frank	1994
Nesmith	James	1995
Simpson	Tina	2005
Wallace	Stephenie	2007
Pagan	Jasmine	2015
Allergy & Immunology		
Newton	Alan	1990
Hostofer	Robert	1991
Hains	Coralie	1993
Chung	Clara	1996
Smith	Carol A.	1996
Skoda-Smith	Suzanne	1997
Sheikh	Sofia	2004
Endo	Lois	2006
Johnston	Doug	2006
Kankirawatana	Suthida	2008
Waldrep	Manda	2008
Giannobile	Joseph	2010
Anderson	John	2011
Boyd	Amy	2012
Gates	Michael	2013
Griffin	Stacy	2013
Hwangpo	Tracey	2014
Adkins	Colleen	2015
CaJacob	Amy	2015
Ambulatory/General Pediatrics		
Peralta	A. Myriam	1992
Amaya	Michelle	1996
Wall	Terry	1996
Jackson	Deanne	1997
Roberts	James	1997
Nobles	Jennifer	2002
Halloran	Donna	2006

LAST NAME	FIRST NAME	END DATE
Child Neurology		
Tenorio	Eugene	1991
Futatsugi	Yoshio	1995
Mussell	Holly	1995
Parrott	James	1997
Reddy	Alyssa	1998
Phuah	Huan-Kee	2000
Islam	Monica	2003
McGrath	Tony	2003
Kosentka	Anna	2004
Islam	Monica	2005
Ness	Jayne	2005
Fernandez	Romeo	2006
Phan	Han	2007
Fu	Cary	2008
Valero	Javier	2009
Keller	Stephanie	2010
Simasathien	Thitiwan	2011
Hammond	Katherine	2014
Ireland	Tom	2015
Paudel	Sita	2015
Critical Care		
Ronco	Ricardo	1993
Baldwin	Steven	1994
Kooy	Neil	1994
Patton	David	1995
Balas	Manci	1996
Walker	Thomas A.	1996
Winkler	Margaret	1997
Macfadyen	Andrew	1998
Paradisis	Peggy	1998
Bernard	Philip	1999
King	Wendy	2002
Prabhakaran	Priya	2002
Bonner	Richard	2003
Tofil	Nancy	2005

LAST NAME	FIRST NAME	END DATE
Critical Care (cont..)		
Hayes	Leslie	2006
Creel	Amy	2008
Kong	Michele	2008
White	Marjorie	2008
Varisco	Brian	2010
Niebauer	Julia	2011
Valle	Patricio	2011
Davis	Kasey	2012
Sasser	William	2012
Widener	Colin	2012
Rhodes	Leslie	2013
Whitaker	Brent	2013
Zaccagni	Hayden	2013
Rutledge	Chrystal	2014
Diaz	Franco	2015
El Masri	Kamal	2015
CVICU		
Jackson	Kimberly	2012
Sasser	Will	2013
Kalra	Yuv	2014
Rhodes	Leslie	2014
Emergency Medicine		
McCloskey	Karin	1989
Faries	Stephen Glenn	1991
Baldwin	Steven	1992
Hardwick	William	1992
Calhoun	Alice	1994
Dobson	Joseph	1994
Joseph	Madeline	1994
Phillips	Laura G	1994
Deeb	Raymond	1995
Lembersky	Robert	1995
Monroe	Kathy	1995
Chona	Sangetta	1996

* Completed combined Pediatric and Adult Fellowship



Alumni List *cont'd*

LAST NAME	FIRST NAME	END DATE
Emergency Medicine (cont..)		
Edwards	Kimberly	1996
Polley	Kevin	1996
Gilmore	Barry	1998
Pershad	Mrityunjay	1998
Barber	Judson	1999
Embling	Michelle	1999
Abel	Ki	2000
Bartle	Samuel	2000
Mainor	Byron	2001
Arnold	David	2002
Bonner	Aleta	2002
Sorrentino	Annalise	2003
Spiro	David	2003
Schmidt	James	2004
Coco	Teresa	2005
Dubois	Dale	2006
Hasty	Molly	2006
Marzullo	Laurie	2006
Carr	Brandon	2007
Madiwale	Taj	2007
McCain	Jennifer	2007
Baker	Mark	2008
Kendrick	Dawn	2008
Russell	Scott	2008
White	Marjorie	2008
Frasco	Melissa	2009
Jackson	Benjamin	2009
Lapus	Robert	2009
Davis	Valerie	2010
Pruitt	Christopher	2010
Sterner	Sarah	2010
Galey	Timothy	2011
Gran	Kimberly	2011
Mitchell	Michael	2011
Clayton	Kelly	2012

LAST NAME	FIRST NAME	END DATE
Emergency Medicine (cont..)		
Jones	Nicole	2012
Kant	Shruti	2012
Mitchell	Heather	2013
Restrepo	Chris	2013
Yust	Elizabeth	2013
Barbour	Worth	2014
Lindsay	Laura	2014
Shirk	Arianna	2014
Ghosh	Pallavi	2015
Smith	David	2015
Sunallah	Rami	2015
Endocrinology		
Matallano	Audrey	1992
Ashraf	Ambika	2006
Brown	Whitney	2008
Burton	Amy	2010
Gardner	Jay	2011
Scott	Mary	2012
Lunsford	Allison	2013
Colvin	Caroline	2014
Larson-Williams	Linnea	2015
Martin	Alexandra	2015
Gastroenterology		
Harris	Paul	1996
Dezenberg	Carl	1997
King	Steven	2004
Morris	Brian	2006
Maclin	Jeanine	2007
Nogueira	Janaina	2008
Dimmitt	Reed	2009
Gomez	Roberto	2010
Jester	Traci	2012
Vadlamudi	Narendra	2013
Kasi	Nagraj	2014
Smith	Erika	2015

LAST NAME	FIRST NAME	END DATE
Hematology/Oncology		
Watts	Raymond G.	1991
Porat	Shimshon	1995
Saccante	Suzanne	1995
Hilliard	Lee	1996
Gratias	Eric	2004
Schwartz	Jeffrey	2005
Whelan	Kimberly	2006
Bryant	Nichole	2007
Buckley	Kevin	2007
Bryan	Coleman	2008
Friedman	Gregory	2008
Ballestas	Carmen	2009
Black	Vandy	2009
Cook	Rebecca	2010
Goodwin	Emily	2010
Haines	Hillary	2010
Cramer	Stuart	2011
Walsh	Alexandra	2011
Bemrich-Stolz	Christina	2012
Hawthorne	Heather	2012
Heidemann	Stephanie	2013
Zaid Kaylani	Samer	2013
Alva	Elizabeth	2014
Gleason	Michael	2014
Edrees	Nayf	2015
LeBlanc	Zachary	2015
Hospital Medicine		
Casey	Emily	2014
Gambrell	James	2015
Infectious Disease/Clinical Virology		
Balcarek	Kytia	1993
Boppana	Suresh	1993
Billstrom	Marcella	1994
Jue	Sue	1994
Yoshida, PhD	Mariko	1995

* Completed combined Pediatric and Adult Fellowship



Alumni List *cont'd*

LAST NAME	FIRST NAME	END DATE
Infectious Disease/Clinical Virology (cont)		
Kimberlin	David W.	1996
Coggins	Wanicha Bu-	1997
Zanghellini	Felipe	1998
Shimamura	Masako	2001
Dalzell	Alex	2004
Ross	Shannon	2006
Shalabi	Marwan	2006
Wilhelm	Jan Paul	2006
Bradford	Russell	2007
Buckley	Kevin	2007
Guffey	Brad	2009*
James	Scott	2011
Rha	Brian	2011
Widener	Rebecca	2012
Pinninti	Swetha	2013
Price	Nathan	2013
Paulsen	Grant	2014*
Oliver	Sara	2015
Neonatology		
Newton	Alan	1991
Mena	Wahib	1992
Nieves-Cruz	Bedford	1995
Rayyis	Suha	1995
Ambalavanan	Namasivayam	1996
Cifuentes	Javier	1996
DiCarlo	Vick	1996
Ruiz-Oronoz	Joaquin	1996
Mariani	Gonzalo	1997
Megna	Jose	1997
Owens	Jack	1998
Rugolotto	Simone	1998
Filippone	Marco	1999
Morse	Steven	1999
Bellettato	Massimo	2000
Teng	Ru-Jeng	2000
Novak	Zuzana	2001
Sisman-Punar	Julide	2001

LAST NAME	FIRST NAME	END DATE
Neonatology (cont..)		
Thome	Ulrich Herbert	2001
Panyavudhikrai	Sopapan	2002
Arnold Cobb	Bridget	2003
Carroll	William	2003
Wu	Tzong Jin	2003
Broitman	Eduardo	2004
Mendez	Rebeca	2004
Tanner	Jason	2004
Fabres	Jorge	2005
Ferzli	George	2005
Sims	Brian	2006
Benjamin	John	2007
Toms	Rune	2007
McKee	Lara	2008
Miller	Davin	2008
Dabrowski	Katarzyna	2009
Meyn	Donald	2009
Soltau	Thomas	2009
Black	Allison	2011
Campbell	Leigh	2011
Kelleher	John	2011
Tatum	Phillip	2011
Bhat	Rhamachandra	2012
Leadford	Alicia	2012
Zolak	Mem	2012
Ramani	Manimaran	2013
Salas	Ariel	2013
Turner	Kristen	2013
Cuna	Alain	2014
Dreher	Adolean	2014
Hightower	Hannah	2014
Huda	Shehzad	2014
Fort	Prem	2015
Kandasamy	Jegen	2015
Nephrology		
Tucci	Monica	2011

LAST NAME	FIRST NAME	END DATE
Pulmonary		
Bauer	Martin	1991
Logan	James	1993
Gutierrez	Hector	1994
Hagood	James	1994
Walker	Rosalyn	1995
Clancy	John Paul	1996
Makris	Christopher	1996
Maupin	Kevin	1997
Ruiz	Fadel	1998
Hentschel-Franks	Karen	2002
Lozano	David	2004
Com	Gulnur	2007
Ansari	Asad	2008
Troxler	Brad	2010
Maeng	Patrick	2011
Houser	Grace	2013
Saadoon	Ammar	2014
Hartzell	Kimberly	2015
Pulmonary - Sleep Medicine		
Akin	Laura	2008
Withrow	Lisa	2008
Gunn	Jason	2009
Phan	Han	2009
Billeaud	Neil	2010
Moturi	Sricharan	2010
Amara	Amy	2011
Maddox	Mary Halsey	2011
Pooyan	Payam	2012
Troxler	Robert	2012
Lievens	William	2013
Henry	Dwayne	2014
Barton	Tonia	2015
Brown	Jessica	2015
Rehab Medicine		
Davis	Richard (Drew)	2005
Niedzwecki	Christian	2010
Rheumatology		
Mannion	Melissa	2014

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2015-2016

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