PEDIATRIC EMERGENCY MEDICINE FELLOWSHIP TRAINING PROGRAM

musckids.org
http://www.musckids.org/pediatrics/divisions/emergencymedicine/
Welcome to Charleston!

We are glad you are visiting the Pediatric Emergency Medicine fellowship training program at MUSC. The enclosed information should help acquaint you with our program. Interviewing for fellowship positions is an exciting experience. Your visit to Charleston should be enjoyable and informative.

You will have the opportunity to meet and talk with our fellows and faculty. We are proud of our training program and the care we provide to the children of South Carolina and the region. Please ask anyone here about the program and community.

If, during or after your visit, you have questions about the program, please feel free to contact any of our faculty or fellows. Their contact information can be found in this booklet or on the website (www.musckids.com). Also, you can contact us through our Education program coordinator, Ingrid Schneider (843-792-0269 or schneider@musc.edu), or directly at the numbers and email addresses below. Enjoy the hospitality of Charleston and thanks for visiting.

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Associate Professor, Pediatrics
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Fellowship Overview

The fellowship is intended for physicians to acquire particular expertise and skills in clinical practice, teaching, investigative research and administrative functions related to the field of pediatric emergency medicine. The clinical information and skills acquired during residency training will be sharpened and focused as the fellow gains new knowledge and experience pertinent to the emergency management of seriously ill and injured children. The fellow will participate in teaching of both medical and lay personnel on topics related to pediatric emergency medicine in a variety of formats. An understanding of clinical research will be fostered through course study in research design and the development and execution of a research project. In addition, exposure to the administrative aspects of managing an emergency department will be afforded the fellow during the years of training. Unique to our program is the ability to utilize all available resources to tailor the program to meet the curricular needs of each fellow to achieve his/her career goals within the specialty, including quality improvement, teaching, research, global health, child abuse, administration and ultrasound.

Our specific program aims:

- Educate fellows to be excellent practitioners of Pediatric Emergency Medicine and advocates for safety and injury prevention in our communities
- Support fellows in achieving advanced training in their niche of choice by utilizing all available resources and applying flexibility in creating individualized curriculums for each fellow’s needs
- Mentor fellows to strive for an appropriate life-work balance which will help promote resiliency and career longevity.
- Promote fellows taking an active role in their educational needs including progressive autonomy in their clinical care
Clinical Facilities/Experience

MUSC Children’s Health serves as the comprehensive regional pediatric tertiary/quaternary hospital for Charleston and the surrounding area. The Children’s Hospital contains 166 beds and receives an estimated 7,800 admissions annually. All major subspecialties are represented at our institution with national recognition in the US News and World Report hospital rankings in 6 specialties. MUSC Health is investing more than 500 million dollars to expand the clinical mission of pediatric care in the region with the construction of the new Shawn Jenkins Children’s Hospital which is set to open in the fall of 2019 and a new medical office building and ambulatory surgical center expected to open in early 2019.

The Children’s Health Emergency Department (ED) is a unique space for children that encompass 6,040 square feet on the ground floor of the main hospital. We have 12 examination rooms, including 2 critical care/trauma rooms. We flex into 3 additional rooms for non-urgent care in the evening hours. We provide care for over 25,000 patient visits per year in this downtown location including upward of 150 trauma’s annually. Our division also runs 3 remote After Hours Clinics where MUSC pediatricians care for an additional 26,000 patients annually. The new ED will be state of the art and will have 18 beds with two beautiful and expansive trauma/resuscitation rooms, a dedicated orthopedic room, and dedicated psychiatric safe rooms. We will have an additional 6-8 beds to flex into in the evenings when volumes necessitate. Current acuity ranges from minor pediatric illnesses to major multiple trauma, almost 18% of patients visits resulting in admission. We perform greater than 400 procedural sedations annually. Nationally we rank in the top 20th percentile for amount of critical care billed and percentile of patients admitted which is a strong testimony to the acuity of patients we see. The Emergency Department is staffed 24 hours a day by faculty physicians of the Division of Pediatric Emergency Medicine, Pediatric Nurse Practitioners and residents from training programs in pediatrics, emergency medicine, and medicine-pediatrics, anesthesia, and family practice. We are also staffed with only pediatric nurses and Child Life experts. We were just was awarded the prestigious 2017 Lantern Award from the Emergency Nurses Association! The Lantern Award is a national recognition award given to emergency departments that exemplify exceptional practice and innovative performance in the core areas of leadership, practice, education, advocacy and research.

MUSC has an excellent transport team that transports patient to our hospital from around the entire state of South Carolina via ground, helicopter and fixed wing vehicles. The ED attending and fellows serve as medical control for the transfers that come to the emergency department.
## Sample schedule for Peds grads...

### Sample first year schedule

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Fellowship Curriculum

Research Experience
All pediatric fellows participate in on-line courses in Evidence-Based Medicine and Clinical Research Methods during their dedicated research months. In addition, fellows will be expected to attend and participate in regular journal club meetings, during which critical review of current literature pertinent to pediatric emergency medicine will be conducted. The Pediatric residents participate in an Evidenced-Based Medicine Curriculum throughout their three years of training; the fellows will be encouraged to attend these weekly educational conferences and review of current literature. MUSC and GME also create regular conferences pertinent to fellows and their gaining knowledge in these endeavors.

Fellows will be expected to design and implement a research project during their three-year fellowship which will satisfy the “Meaningful Accomplishment in Research” requirement of the American Board of Pediatrics in order to sit for the Sub-board examination in Pediatric Emergency Medicine.

Fellows entering the training program are not assigned to a research program. From discussions with faculty, educators and clinicians, the fellow is expected to identify a research question and a mentor to assist the fellow in addressing that question. We firmly believe that the project must be of the interest of the fellow or it is not worth pursuing. This mentor must be responsible for providing the ongoing formative feedback that is essential to the trainee’s attainment of competence in clinical care, teaching and scholarship.

Each fellow will have a scholarship oversight committee (SOC) with appropriate expertise in scholarly research endeavors; the SOC will be appointed during the first year of fellowship. The mentor and SOC will ensure global scholarly success as mentioned above.

We expect that fellows will submit their completed research projects to a national meeting for presentation, and if accepted will be supported by our division to present at the conference. Each first-year fellow will attend a national Peds EM fellows’ conference where their research ideas will be discussed with other fellows and nationally-recognized PEM faculty.

Teaching Experience
Fellows will prepare and present instructional lectures to students, residents, nurses, and other medical personnel (e.g., nurses and emergency medical services personnel) on topics related to pediatric emergency medicine. The department offers many additional opportunities to teach, including Pediatric Advanced Life Support classes, Suture/Wound Management and Splinting workshops, and Sim Lab courses for residents and medical students. Under the supervision of Dr. Amanda Price, each fellow will annually develop a mock code scenario through simulation while learning details of curriculum development and how to evaluate his/her colleagues and faculty in the simulation scenarios and procedural skills. Fellows have many more
opportunities to teach simulation to residents on the topics of resuscitation and procedures. As teaching simulation is so critical to your developing your own procedural and resuscitation skills, we provide shift reduction for such efforts.

In addition, one-on-one teaching skills will be developed as fellows precept residents and medical students on clinical cases in the Emergency Department. Teaching activities will be monitored and periodic critique/feedback will be provided.

Pediatric Fellows as a whole participate in a Teach the Teacher course which focuses on improving the skills of feedback and mentorship to name a few. In addition, MUSC’s Center for Academic Excellence collaborates with all Pediatric Fellowship Directors to provide resources for Peds fellows in specific courses such as developing a CV, how to conduct small group discussions, professionalism, scholarly publication preparation etc. Fellows have the opportunity to teach and mentor residents as well as medical students in several College of Medicine teaching courses. Fellows can also elect to participate in a certificate program awarded by GME titled Certificate as a Clinician-Educator which expands formal instruction in teaching and provides an opportunity to be mentored in an educational research project.

**Administrative Experience**

Fellows will participate in inter- and intra-departmental meetings as they relate to the Emergency Department and are of interest to the individual fellow. As part of this process, policies and procedures will be developed and reviewed. We encourage the fellow to choose multi-disciplinary committees or project development teams that support their interest within our field. Fellows have many opportunities and resources to perform and evaluate the success of Quality Improvement projects which impact operations in both the Peds ED and Children’s Hospital as a whole. As an employee of MUSC, one is given free access to the Institute of Healthcare Improvement’s course offerings including Quality Improvement, Patient Safety and Leadership.

**Educational Conferences**

One day every week is set aside for fellowship educational conferences. The format will vary week-to-week but will include: didactic lecture presentations from faculty within the department and faculty from other disciplines on topics germane to pediatric emergency medicine; review of sections of a major textbook of pediatric emergency medicine; case conference presentations such as morbidity and mortality; research conferences; hands-on ultrasound training and critical review of contemporary articles taken from a variety of academic journals. Fellows take an active role in Fellows Conference with presentations on topics relevant to M&M, PICU Review and Toxicology. This will allow some administrative and teaching experience. A current fellows conference schedule is included in your folder for your review.

Other educational conferences include: Simulation Labs for both procedures and resuscitations, Peds EM/Peds Radiology Conference, EM resident conference, Peds noon conference, Sedation course, Mock Codes, Ultrasound…and the list goes on!
Innovations in Education

Ultrasound
Under the direction of EM faculty, Drs. Brad Presley and Ryan Barnes, the fellows receive in depth training in ultrasound and are allowed opportunities to scan alongside the faculty.  
http://www.emergencyultrasoundteaching.com/pedsem.html

Simulation Laboratory
Our world-class Simulation Center has 50 advanced adult and pediatric simulators, used to provide clinical training to nursing, medical, and allied health trainees as well as continuing education for practicing health care professionals.  Simulation training includes acute care, trauma, CPR, mock codes, and procedures – valuable practice in a controlled, risk free environment.  The opportunities for teaching experience and research endeavors are endless!

Quality Improvement
Conferences, such as PICU Review and M&M, provide a robust list of opportunities to improve patient care within the department and community through multi-disciplinary collaboration and evaluation of evidence-based medicine literature.  The Children’s Hospital and the medical center as a whole offer excellent leadership and mentoring in QI, root cause analysis and Patient Safety.

Journal Club and Treatment Guidelines
Fellow-driven journal clubs are avenues to critically review literature and to develop treatment guidelines for management of patients in the ED. Collaboration with other and EM specialists foster communication and combined learning.

“A longitudinal Ultrasound curriculum provides us with another significant tool in the evaluation of our patients. And we have a really good time learning it!”
Amanda Price, Former Fellow and current Faculty

“The fellowship allowed me to develop and cultivate a strong passion for Quality Improvement. Thanks to all these opportunities, I have developed a strong foundation in QI that will only continue to grow throughout the rest of my career.”
Elysha Pifko, MD  
Graduated Fellow and QI Leader

“Health care is a team sport, and the simulation lab is the practice field for honing our skills at collaboration”
Dr. Raymond Greenberg, former MUSC President

“The development of treatment guidelines based on our literature review is an essential tool to keep up to date.”
Joe Losek, MD, former PEM Research Director
Endless opportunities

International Experiences

The MUSC Pediatrics Program is highly invested in the health of children on the international scale. The program has funded residents to participate in international rotations, and has sent several residents abroad over the past three years. We have established affiliations with hospitals in Nicaragua, Honduras, and Tanzania.

Child Advocacy & Injury Prevention

MUSC leads the South Carolina Area Health Education Consortium, which links the academic center to community-based health care centers statewide with an emphasis on health disparities, rural health issues and access to health care. Peds EM and Pediatric Surgery faculty are actively involved in the Injury Free Coalition Development Committee, another area of significant research and clinical and administrative opportunities.

Research Activities

In 2005, MUSC opened the new Darby Children’s Research Institute. This world-class institution is home to cutting edge research in pediatric cardiology, endocrinology, oncology, prenatal nutrition, and obesity. The Pediatrics department received $9.3 million in research grants this year with 45 different principle investigators.

“Guidance and the necessary resources are readily available for any resident interested in research.”
Hayden Zaccagni, Former Resident

“No single rotation had as much of an impact on my abilities as a physician as my international experience. I returned from Africa with confidence I never knew I had.”
Jimmy McElligott, Pediatric Hospitalist

“To focus on prevention of injuries is a vital but often forgotten aspect of a PEM physician.”
Scott Russell, MD PEM Faculty
A great education plus...

Individual & Family Benefits
3 weeks of Annual Leave
3 weeks of Sick Leave
Maternity/Paternity Leave
Health and Dental Insurance

Educational Benefits

$1500 annual stipend for Continuing Medical Education (CME)

Shared office with computer and textbooks

Full access to library, online journals and pubmed

Paid conference per year; additional support for presentations

Compensation

Your very own salary:

PG-4  $56,586.00
PG-5  $60,141.00
PG-6  $63,133.00

Monthly meal allowance
Subspecialists and Ancillary Services

Including...
Adolescent Medicine
Cardiology
Cardiac Surgeons
Critical Care
Child Advocacy
Children’s Medical Home
Neurology
Developmental Pediatrics
Genetics
Emergency Medicine
Endocrinology
General Academic Pediatrics
Gastroenterology/Nutrition
Hematology/Oncology
Infectious Disease
Neonatology
Nephrology
Pediatric Surgery
Pulmonary
Rheumatology

Dedicated Pediatric Services
Radiology
Child life specialists
Respiratory therapy
Pathology
Ophthalmology
Phlebotomy
Speech therapy
Occupational therapy
Physical therapy
Psychiatry
Burn center
Clinical pharmacists
Pain management
Transport
Living in Charleston

Charleston is a great place to live!

- Population of more than 600,000
- Average daily high temperature of 74°F, average daily low temperature of 59°F
- Many superb restaurants (the Food Network has featured Charleston on its shows with Rachel Ray, Bobby Flay and Giada de Laurentis)
- Recognized as the “best-mannered” city in the country since 1995
- Has the 7th highest ranked high school in the country by Newsweek
- Fun and accessible minor league baseball and hockey teams (the Charleston Riverdogs and Stingrays)
- One of the top 10 aquariums in the country
- Spoleto Festival – America’s premier arts festival
Get a taste of Charleston...

**Other fun things**
- South Carolina Aquarium – one of the best in the country
- Ferry ride to Fort Sumter – good history and a very nice boat ride on a sunny day
- The Old Market – tourist attraction downtown
- The Battery – picturesque walkway along the southern edge of the downtown peninsula
- Shem Creek – bars and restaurants with a view of the intercoastal waterway and an occasional dolphin
- Shopping on King Street – a variety of boutiques and shops
- Beaches – Folly Beach, Isle of Palms, and Kiawah Island

**Some favorite downtown restaurants**
- Minero on East Bay St—Superb Mexican food. Try the hot wings too!
- Husk on Queen St—lots of bacon (think Bill Murray)
- Obstinate Daughter on Sullivan’s Island—Sunday brunch is a must.
- Poe’s on Sullivan’s—named after our former resident author; burgers
- Taco Boy downtown or Folly Road
- Monza on Upper King—awesome pizza
- Basil on upper King Street—Thai
- Pearlz on East Bay – casual oyster bar
- Wasabi on State Street – Japanese with good sushi
- Hanks on Hayne Street – fantastic local seafood
- Rue de Jean on John Street—French brasserie and great for drinks
- FIG—farm to table at its best
Thanks for visiting!