



# Pediatric Emergency Medicine Fellowship Overview 2021

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**Texas Children's  
Hospital®**

Baylor  
College of  
Medicine

# Welcome to Texas!









# Pediatric Emergency Medicine Fellowship Program



**Esther Sampayo, MD, MPH**  
**Co-Program Director**



**Kim Little-Wienert, MD, MEd**  
**Co-Program Director**



**Marideth Rus, MD, MEd**  
**PEM- GH Combined Fellowship**  
**Director**  
**Associate Program Director**

# PEM at Baylor and Texas Children's



Fellowship began in 1992

51 PEM faculty, 6 POCUS faculty, GEMS, APPS

120 fellowship graduates across the country

Currently 18 fellows

EM and pediatrics trained

2021-Received 174 applications for 6 positions

# Texas Children's Hospital

## Main Campus

- 750-bed children's hospital
- 25,966 admissions in the most recent year
- 9,053 annual inpatient and 16,216 outpatient surgeries

## Pavilion for Women

- Comprehensive obstetrics/gynecology facility focusing on high-risk births, fetal surgery

## West Campus

- Community hospital in suburban West Houston

## The Woodlands

- Community hospital in suburban North Houston

## Legacy Tower

- Critical care and surgical tower constructed in 2018

## Feigin Center for Pediatric Research





# Texas Children's - Main Campus

## Main Fellowship Training Site

### Emergency Center

- Level 1 pediatric trauma center
- Largest pediatric emergency center in the region
- 50+ beds (North, South)

### Legacy Tower

- **High Acuity Operating Rooms**
  - 6 ORs for neurosurgery, orthopedics, plastic, transplant, general surgery
  - Integrated MRI scanner
- **Pediatric Intensive Care Units**
  - 4 Pediatric ICU floors
  - Subspecialty PICUs including dedicated neuro-ICU and Surgical ICU
  - **84** large private PICU rooms
- **Heart Center**
  - 8 floors
  - 4 cardiac catheterization labs including integrated MRI scanner
  - 4 cardiovascular ORs
  - 3 cardiovascular ICU floors with **48** private rooms
  - 2 cardiac acute care floors with **42** private patient rooms
- **Helistop**
  - Enables transport of critically ill patients

# Texas Children's – West Campus

## Community Training Site

### Emergency Center

- 24 beds

### Pediatric Intensive Care Unit

- 22 beds

### Inpatient

- 46 beds





# Texas Children's – Woodlands

## Community Site

### Emergency Center

- 20 beds

### Pediatric Intensive Care Unit

- 14 beds

### Inpatient

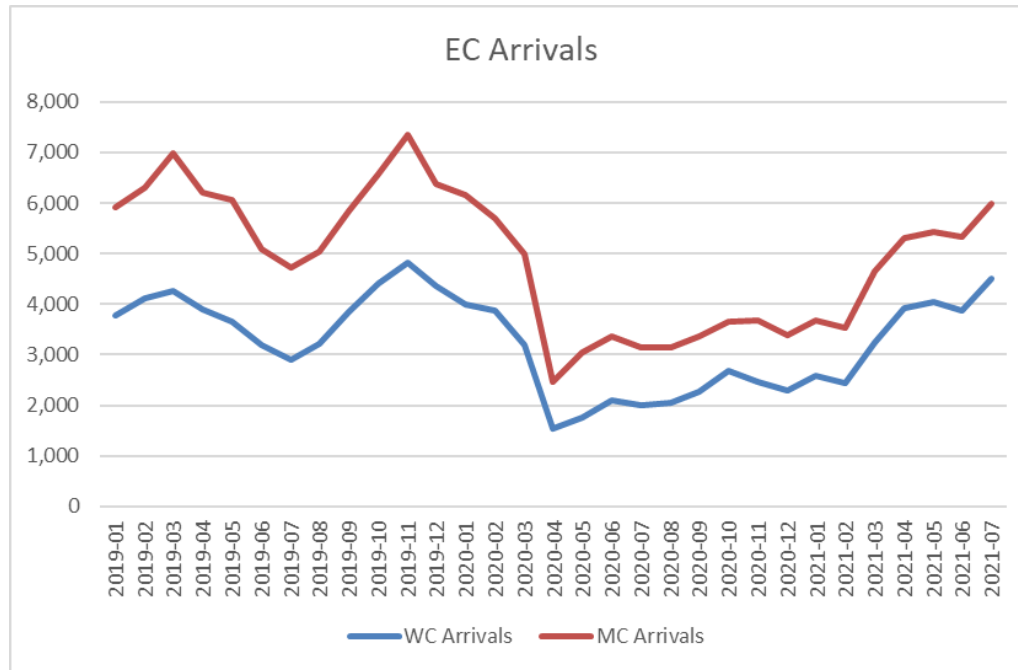
- 32 beds

### NICU Level 3

- 14



# Medical Center Arrivals



## MC Total Arrivals:

2016 75,009

2017 72,193

2018 69,851

2019 70,000

## WC Total Arrivals:

2016 45,355

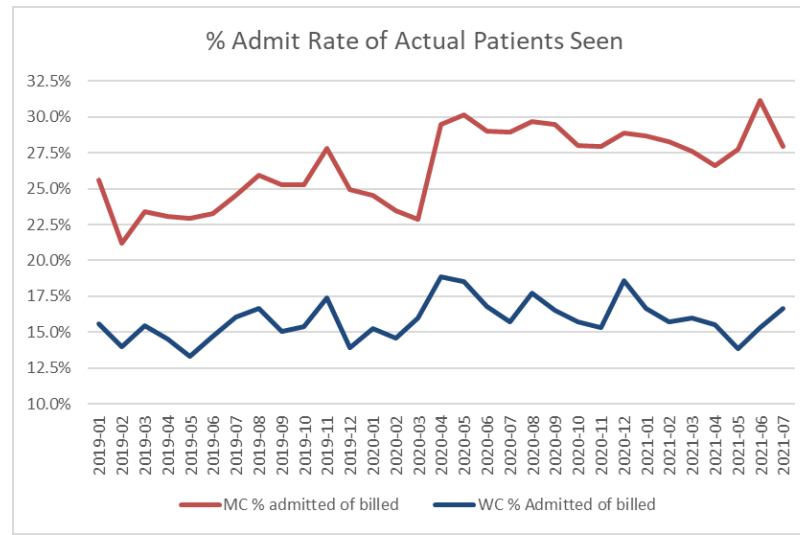
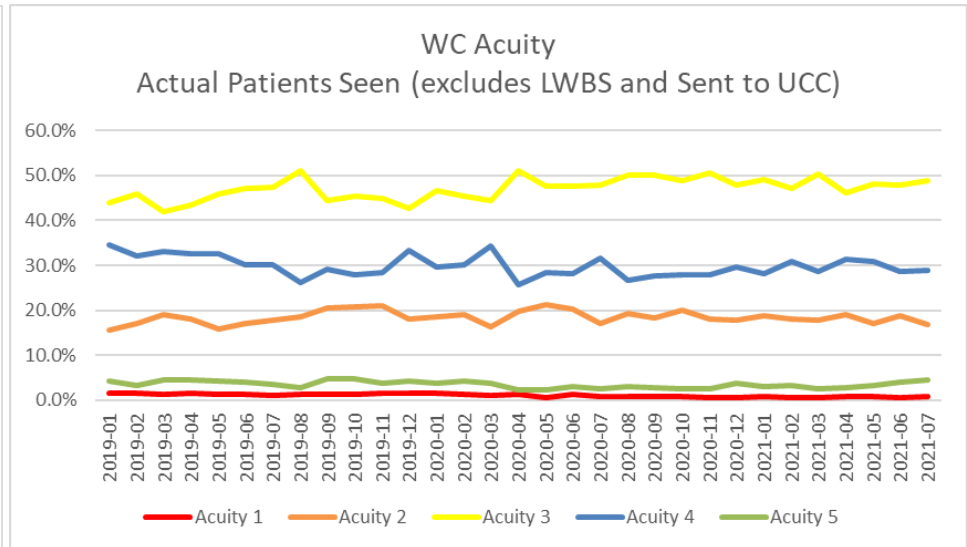
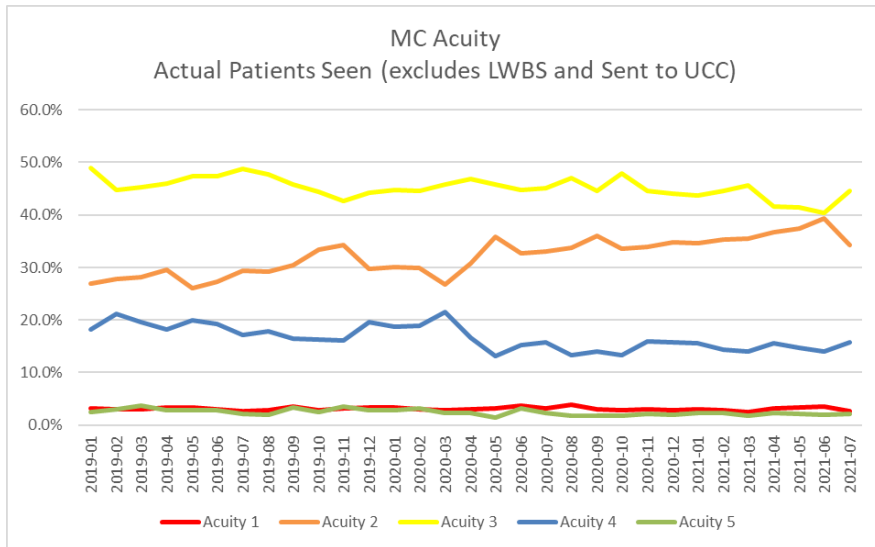
2017 43,706

2018 43,250

2019 45,000



# Patient Acuity



# Goals & Objectives

Gain	proficiency in the clinical practice of pediatric emergency medicine (PEM)
Achieve	competency in educating other health care providers and families
Approach	everyday work in a scholarly way
Develop	familiarity with administrative issues
Prepare	for a career in PEM





# PEM Fellowship Curriculum

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Clinical practice



Teaching and consulting



Administrative training



Quality and performance improvement



Career development



Academics & Scholarship



# Clinical practice



Provide ED evaluation and management of acutely ill or injured pediatric patients

- Perform patient evaluations quickly with stabilization of life threatening processes
- Develop competency in technical/procedural and resuscitation skills necessary to practice PEM
- Academic and community experience

Prioritize and simultaneously manage the emergency care of multiple patients

Use evidence based reasoning to guide clinical practice

# Teaching and consulting

Achieve proficiency in teaching to different types of learners and in a variety of clinical settings

Teach at the bedside

- TCH main and WC (resident and med student supervision)
- Core medical student teaching shifts (1p-6p Tues)

EC rounds

Lead small and large group discussions

Prepare and present lectures

Become PALS instructors and/or simulation instructors

# Administrative training

## Acquire skills necessary for ED management

- Supervise physician trainees
- Manage personnel
- Serve as team lead during resuscitations
- Manage patient throughput



**Dr. Deborah Hsu**  
Section Chief,  
Pediatric Emergency Medicine

## Practice appropriate medical record documentation

- Relay information regarding patient care delivered
- Document medical decision making processes
- Support billing for medical care provided

## Gain exposure to financial management in health care

## Develop leadership skills



# Quality and Performance Improvement

Gain knowledge in quality improvement methods and data gathering

Conduct performance improvement review

Develop EBM guidelines

Identify patient safety or quality issues

Design and conduct a quality project



Dr. Binita Patel,  
Medical Director  
Chief Quality Officer



# Career development



Create and revise individualized learning plan

Build on your CV

Receive & provide mentorship

Balance clinical and academic duties

Review principles of academic advancement

Create a 5 year plan

Gain awareness of job market demands

Get the job you want; choose the career path that's right for you

# Fellowship Curriculum

Meets all requirements set forth  
by the American Board of  
Pediatrics and American Board  
of Emergency Medicine



# First year curriculum – Peds trained

**8.25 months PEM\***

**2 weeks pediatric anesthesia**

**1 week pediatric sedation**

**1 month PICU (Main and West Campus)**

**1 month adult emergency medicine- Memorial Hermann**

**1 month ultrasound**

**\*Total ED Time at Texas Children's Hospital Main and West Campus = 950 Hours (approx 32 clinical hrs/week on PEM rotations)**



# First year curriculum – EM trained

**7.75 months PEM\***

**2 weeks pediatric anesthesia**

**1 week pediatric sedation**

**2 weeks child development (with child life)**

**1 month PICU (Main or West Campus)**

**1 month NICU**

**1 month pediatric cardiology**

**\*Total ED Time at Texas Children's Hospital Main and West Campus= 950 Hours (approx 32 clinical hrs/week on PEM rotations)**

# Second year curriculum – Peds trained

**9 months PEM\***

**2 weeks orthopedics**

**2 weeks toxicology**

**2 weeks child protection**

**1 month trauma– Memorial Hermann**

\*Total ED Time at Texas Children's Hospital Main and West Campus= 1150-1200 Hours (approx 32 clinical hrs/week on PEM rotations)

# Second year curriculum – EM trained

**9.5 months PEM\***

**1 month pediatric infectious disease or neurology**

**1 month elective**

**2 weeks child protection**

\*Total ED Time at Texas Children's Hospital Main and West Campus=  
1150 Hours (approx 32 clinical hrs/week on PEM rotations)

# Third year curriculum – peds trained

**8.25 months Research (Extra hours experience)\***

**2 weeks anesthesia**

**1 month elective**

**1 month EMS**

**1 month adult emergency medicine-** Ben Taub General Hospital or  
Memorial Hermann

**1 week radiology**

Finish in July whatever required clinical hours not completed in years 1 and 2; otherwise no required ED shifts;  
Extra hours experience available to maintain clinical skills (approximately 60 clinical hours/month)



# Extra hours experience

Clinical opportunity offered only to fellows in their 3rd year of training

Successful completion of all PEM ED clinical requirements

Opt to take this opportunity to maintain clinical skills during a primarily research year of their fellowship

Placed as second attending in TCH North/South and West Campus

Moonlighting rates apply

# All Fellows

Complete 2136 clinical hours in the PEM ED setting in first 2 years of fellowship

TCH  
Main EC

- Weekdays: 6a-2p, 2p-10p, 6p-2a, 10p-6a
- Tues medical student teaching shifts: 1p-6p
- Weekends and holidays: 6a-4p, 4p-2a, 8p-6a

TCH  
West Campus

- Weekdays: 3pm-11pm
- Weekends and holidays: 3pm-1am

# PEM Rotations

Combined clinical and research time for fellows, based on a 50 hour work week

## Pediatric trained fellows

- 1<sup>st</sup> year & 2<sup>nd</sup> year - 65% clinical and 35% research
- 3<sup>rd</sup> year - 25% clinical and 75% research if they choose to take the Extra Hours Experience; 100% research if approved not to take the Extra Hours Experience.

## Emergency medicine trained fellows

- 65% clinical and 35% research both years.
- Given the time constraints modifications to the requirement of scholarly activity during fellowship are made based on individual fellows' needs and interests.

# PEM-Global Health Combined Fellowship



Fully integrated four year fellowship with 36 months PEM and 12 months GH

Fellows graduate both programs at the end of 4 years

Rotation schedule is modified to include 2-4 months per year of global health time

Some rotations will be delayed to the following academic year

Scholarly project focused on global health

# PEM-Global Health Fellowship



Dr. Marideth Rus,  
Director, Global Health Fellowship

## Traditional PEM Fellowship

ALL GH FELLOWS COMPLETE THE FOLLOWING:

International Fieldwork Rotation

Scholarly activity project or needs-based research abroad

Disaster Medicine Training (Health Emergencies in Large Populations (HELP) Course)

Foundations in Global Health didactic curricular series

Quarterly Global Health Journal Club

Diploma in Tropical  
Medicine & Hygiene  
(DTMH)  
+  
Public Health Certificate

DTMH  
+  
Master of Public Health  
(MPH) Diploma  
or  
Other approved  
advanced degree

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# PEM-Global Health Combined Fellowship

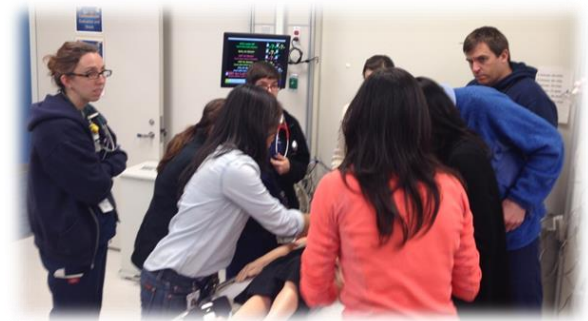
<u>PEM/GH Year</u>	<u>Curriculum</u>
<u>PEM/GH Year 1</u>	<ul style="list-style-type: none"> <li>• 6 months PEM *</li> <li>• 2 months GH</li> <li>• 2 week anesthesia</li> <li>• 1 week sedation</li> <li>• 1 month PICU</li> <li>• 1 month adult EM</li> <li>• 1 month POCUS</li> </ul>
<u>PEM/GH Year 2</u>	<ul style="list-style-type: none"> <li>• 6.5 months PEM/Research</li> <li>• 3 months GH</li> <li>• 2 weeks orthopedics</li> <li>• 2 weeks toxicology</li> <li>• 2 weeks child protection</li> <li>• 1 month trauma</li> </ul>
<u>PEM/GH Year 3</u>	<ul style="list-style-type: none"> <li>• 4.75 months PEM/Research</li> <li>• ~1.25 months Research (EHE)</li> <li>• 3 months GH</li> <li>• 2 weeks anesthesia</li> <li>• 1 month emergency medical systems</li> <li>• 1 month Adult EM</li> <li>• 2 weeks toxicology</li> </ul>
<u>PEM/GH Year 4</u>	<ul style="list-style-type: none"> <li>• 6.75 months Research (EHE) *</li> <li>• 4 months GH</li> <li>• 1 week radiology</li> <li>• 1 month elective</li> </ul>



# Electives

*4 weeks of elective(s) required*

- Administrative elective
- Adolescent medicine/gynecology
- Adolescent medicine/sports medicine
- Dermatology
- Global health- Malawi, Belize
- Neurosurgery
- Ophthalmology
- Otolaryngology
- Pediatric Dentistry
- Plastic/Hand Surgery
- Pediatric Injury
- Quality and Safety
- Simulation
- Create your own elective



# Academics: Conferences and Lectures

## PEM conference Thursday 9am-1pm

- Clinical protection Wed overnight and Thurs morning

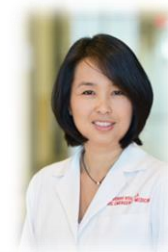
## Conferences which you will present or require your preparation:

- Quality and Performance Improvement (M&M)
- Board Review
- Fellow lectures
- Fellow's follow-up rounds
- Radiology Rounds
- National conference presentations



# Conferences Series- 24 month Curriculum

- July core clinical lectures/workshops
- Administrative
- Allergy/Immunology
- Cardiology
- Child Protection
- Endocrine
- EMS/Disaster medicine
- Ethics
- Hematology series



# Conferences Series-

## 24 month Curriculum

- Gastroenterology
- Global Health
- Neurology
- Obstetrics and gynecology
- Orthopedics
- PEM Joint Conferences
  - ◆ Critical Care Medicine
  - ◆ Hospital Medicine
  - ◆ CVICU



- Plastic Surgery
- Psychiatry
- Quality
- Radiology
- Renal
- Sports medicine
- Surgical
- Trauma
- Toxicology



# PEM Domains of Interests

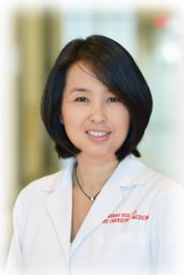
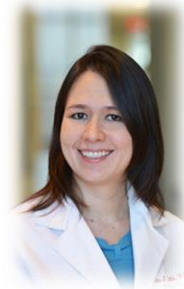
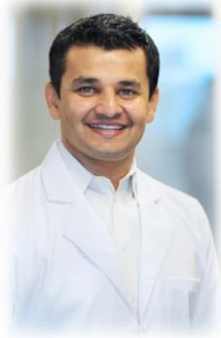
- Information technology
- Disaster preparedness
- Observation medicine
- Sedation and pain management



# Education



Simulation Director



PEM Chief



Peds Residency PD





# PEM Domains of Interests

- Airway



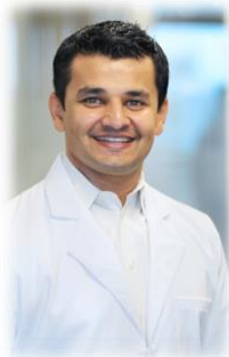
- Customer Service and Communication



- Advocacy



- EMS



# PEM Domains of Interest

□ Asthma



□ Diversity



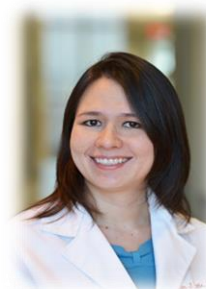
□ Bronchiolitis



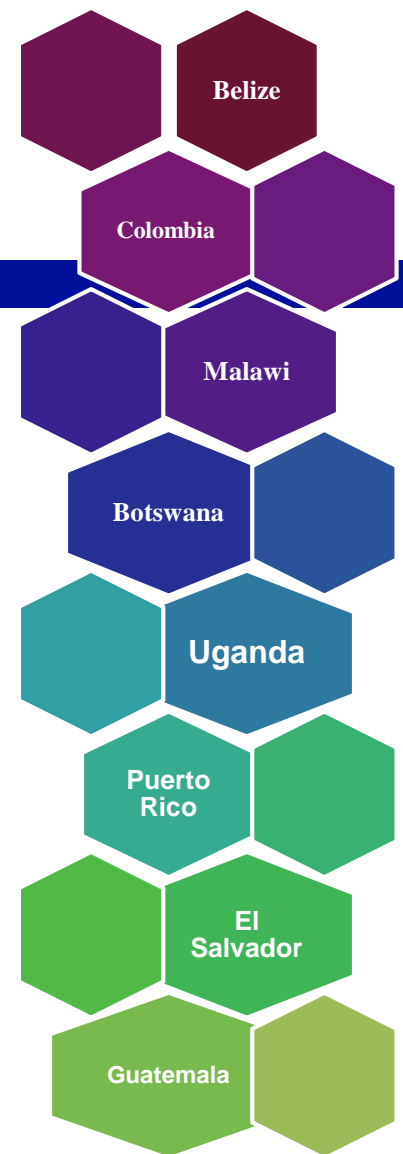
□ Ultrasound (Team Grayscale)



□ Handoffs, Technology



# Global Health



# PEM Point-of Care Ultrasound

One month Ultrasound rotation during first year

- PEM
- Adult EM
- Radiology
- Cardiology

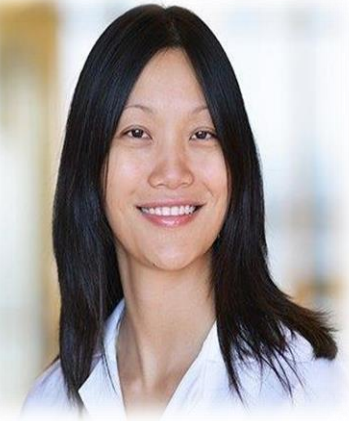
Ultrasound during your core PEM shifts and adult EM shifts

Ultrasound research

Ultrasound fellowship



Dr. Kiyetta Alade,  
Director PEM POCUS



Dr. Stephanie Leung  
POCUS Fellowship Director

# POCUS Training

- POCUS training required for PEM fellow graduation
  - 1) 150 scans by fellowship completion
  - 2) 10 proctored scans with ultrasound faculty
  
- POCUS training completion by March of 2<sup>nd</sup> year allows for ultrasound privileges as 3<sup>rd</sup> year “pretendings”





# PEM simulation



## Involving all fellows:

- ❑ PEM fellows simulation days
- ❑ RCDP for first years
- ❑ EC in-situ simulation
  - ◆ Full teams, 4/month, unannounced
- ❑ Procedural teaching
  - ◆ Central lines
  - ◆ Chest tubes
- ❑ SCOPE
  - ◆ July



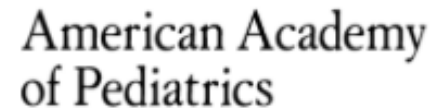
## Good to know about:

- ❑ Resident and nursing resuscitation/ PALS training
  - ◆ Thursdays after conferences
- ❑ Trauma simulations for first years
- ❑ Medical students
  - ◆ During core rotation, sim for procedural training
- ❑ Pre hospital training
  - ◆ Pediatric resuscitation for HFD providers, twice monthly for 2 years, trained over 1200 providers
- ❑ Global Health
  - ◆ Pre-departure training for residents and BIPAI physicians



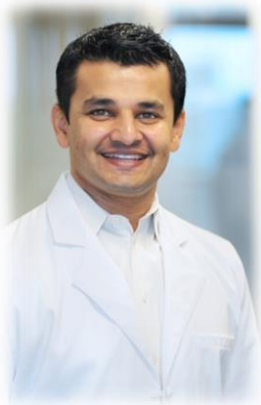


# PEM outreach and service



DEDICATED TO THE HEALTH OF ALL CHILDREN®

# PEM Research



# Scholarship

Critically assess scientific merit of research protocols & publications

Gain knowledge in basic clinical epidemiologic principles & biostatistics

Explore non-traditional avenues for demonstrating scholarship

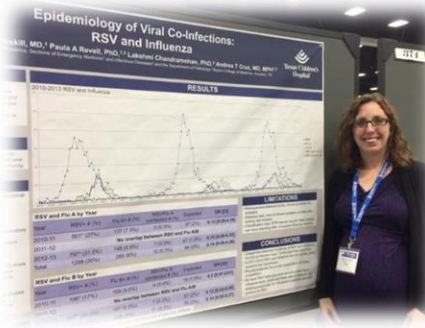
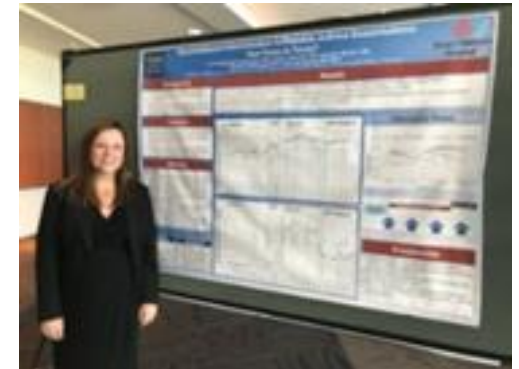
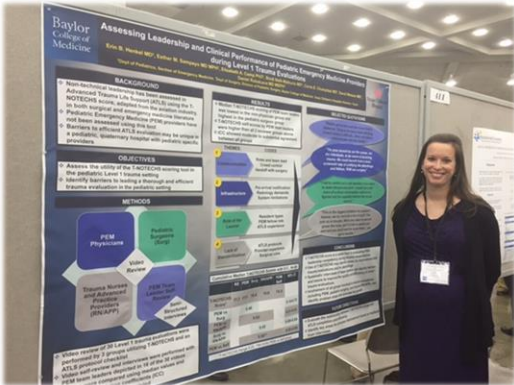
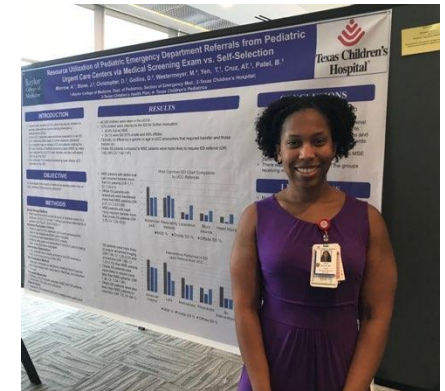
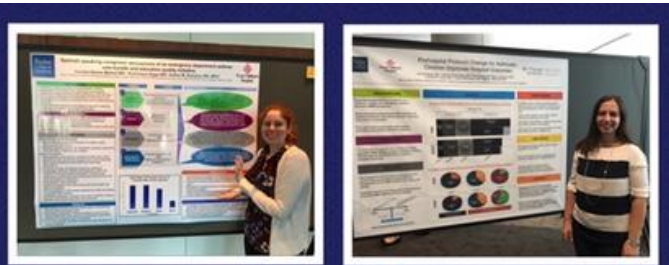
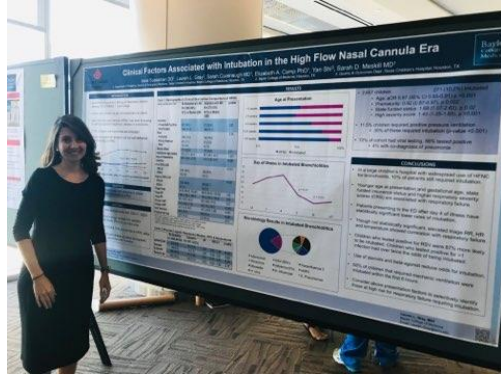
Design & conduct a hypothesis driven scholarly project

Analyze & interpret data

Acquire knowledge in grant funding mechanisms

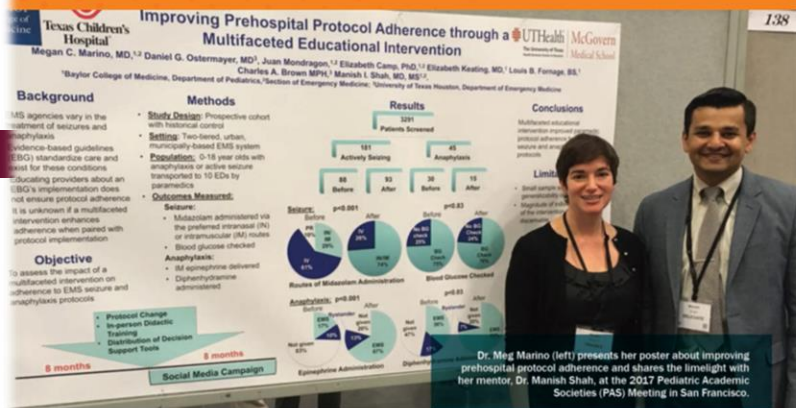
Attain and hone writing skills







## QI PROJECT IMPROVES PREHOSPITAL PROTOCOL COMPLIANCE

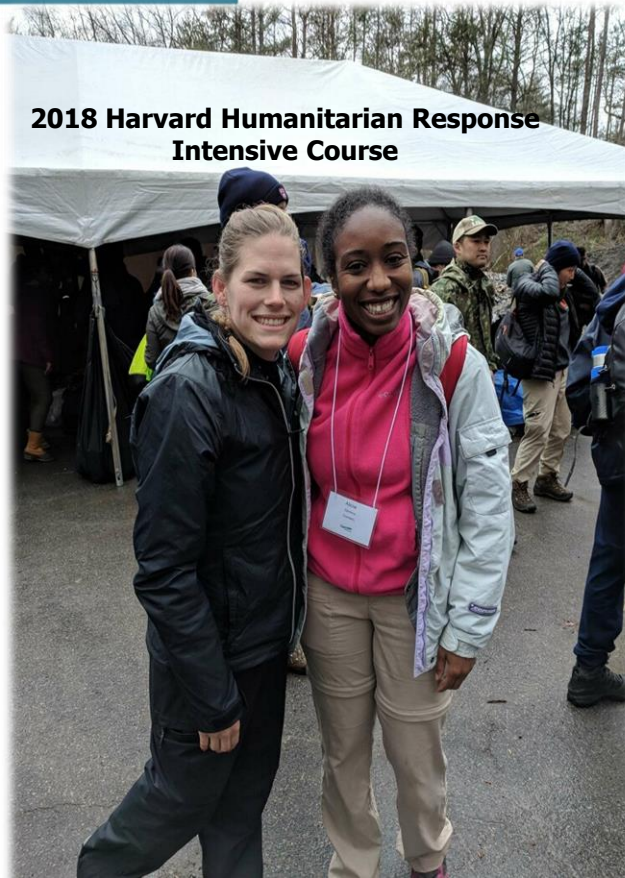


**AAP 2018**

## Fellows National Conference 2018 Advocacy on Capitol Hill EMS for children



## 2018 Harvard Humanitarian Response Intensive Course



## 2017 American Academy of Pediatrics First place PediSonoFest Competition





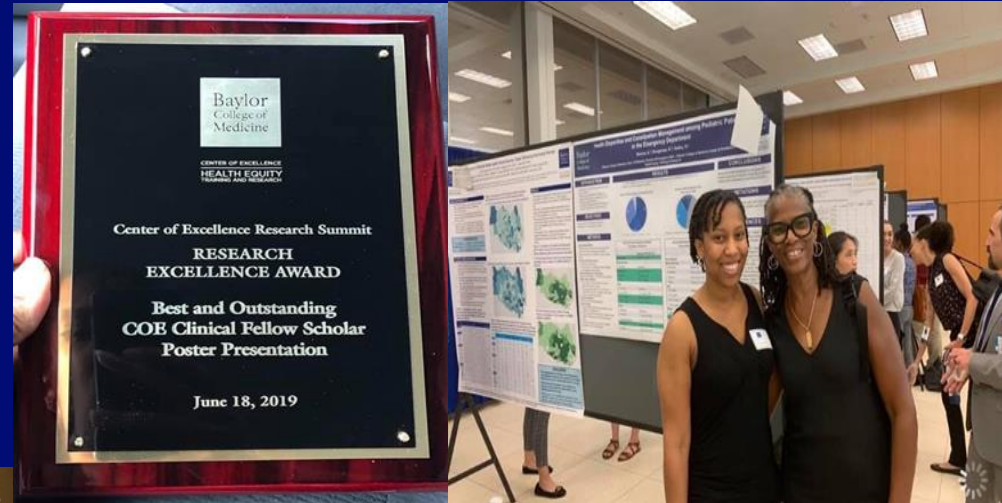
**Micheal Arroyo:**

**Best original research award and platform presentation at the Injury Free Coalition for Kids Conference, December, 2019, Ft. Lauderdale, Florida**



**Asha Morrow**

**2019 Best and Outstanding Center of Excellence Clinical Fellow Scholar Award**

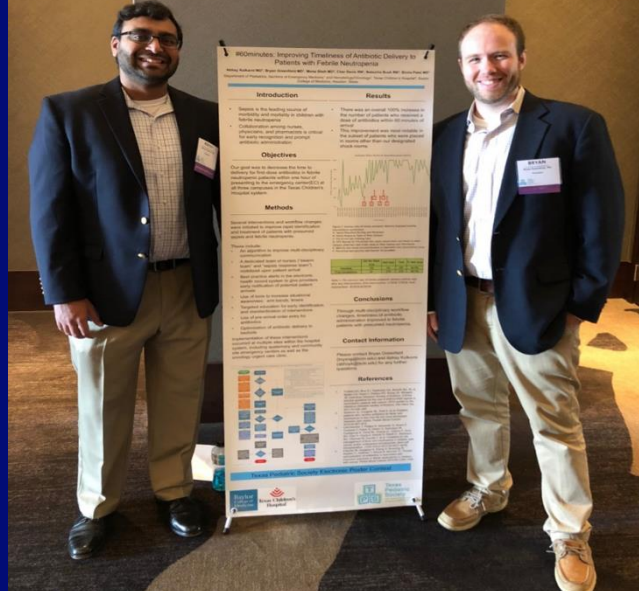


**Texas Pediatric Society E-Poster Contest Winners**

**Bryan Greenfield and Abhay Kulkarni**

**FIRST PLACE for your poster in the Evidence Based Medicine/QI category:**

**#60minutes: Improving Timeliness of Antibiotic Delivery to Patients with Febrile Neutropenia**



# How Are Academic Skills Developed in PEM Fellowship?

Meeting	Why	When
ACER	Project specific guidance from time of initiation	Thursdays year round
Journal club	In depth review of single recent article; fellow-led	1 <sup>st</sup> Thurs
Topics in Research	Rotating topics (q2-3 yrs) presented by faculty	1 <sup>st</sup> Thurs
Literature Review	Review of recent hot articles and historical PEM topics	Quarterly
Progress in Research	Updates on research progress, obstacles	Quarterly
Scholarly oversight committees (SOC)	Help fellow track progress, meet benchmarks	Semi-annually





# Topics in Research Series: 2020-2021 Schedule

TOPICS IN RESEARCH SCHEDULE FOR 2020-2021 ACADEMIC YEAR

Date (Time:12p-1p)	Track 1 (Meeting Locations Listed Below)	Track 1 Presenter	Track 2 (PEM Large Conference Room)	Track 2 Presenter
Aug 6, 2020	Feigin Tower Conf Room FC 01A Question Development Workshop (Homework)	Singh/Ashby	Stats III (Homework)	Meskill and Camp
Sep 10, 2020	Literature Search Workshop (Homework: Complete 2 CITI training courses and turn in certificates) (Bring Laptop)	Chumpitazi	Abstract Workshop (Homework)	Singh (Lead) and faculty*
Oct 1, 2020	Pavilion for Women Conference Rm B/C Literature Appraisal	Shah	Navigating Rocky Research Waters	Sampayo
Nov 5, 2020	Pavilion for Women Conference Rm D/E IRB Navigation	Cruz Gonzalez	Writing Workshop #2 (Homework)	Shah (Lead) and faculty*
Dec 3, 2020	Feigin Tower Conf Room FC 01A Study Design/Stats I (Homework)	Meskill	Educational Research	Doughty
Jan 7, 2021	PEM Education Rm A210 Study Design/Stats II (Homework)	Meskill and Camp	Poster Preparation Workshop (Homework)	Bachim and faculty*
Feb 4, 2021	PEM Education Rm A210 Scientific Presentation Skills Workshop	Cruz	Presenting at Conferences: Poster and Elevator Pitch Workshop (Homework)	Ashby and faculty*
Mar 4, 2021	PEM Education Rm A210 Qualitative Research Pt. 1	Sampayo	Writing Workshop #3 (Homework)	Cruz (Lead) and faculty*
Apr 1, 2021	PEM Education Rm A210 Writing Workshop #1 (Homework)	Chumpitazi (Lead) and faculty*	Qualitative Research Pt. 2	Sampayo
May 6, 2021	PEM Education Rm A210 Survey Methodology	Sampayo	Writing Workshop #4 (Homework)	Doughty and faculty*
Jun 3, 2021	PEM Education Rm A210 Data Collection and Quality	Shenoi J Jones	Case Report Workshop (Homework)	Meskill (Lead) and faculty*



# Advisory Committee on Excellence in Research (ACER)

Small group setting where faculty focus on thorough development of research projects

Faculty with expertise in quantitative and qualitative research, education, quality improvement, and global health

Receive written and verbal feedback on:

- Study question
- Study design
- Analysis plan

1st year fellows required to attend 4 sessions



# Journal Club & Literature Review

## Journal Club

- Purpose: To learn critical appraisal skills
- Review recent paper from past 2 years

## Literature Review

- To review classic PEM articles
- To review recent 'hot off the press' articles that have been published within the past 6 months



# Faculty & Research Mentor Roles

## Mentor

- Attend journal club, fellow lecture, follow-up rounds and QPI presentation for mentee
- Give quarterly feedback to mentee on clinical/academic performance

## Research Mentor

- Participate in ACER sessions with fellow
- Review the fellow's proposal prior to submission to ACER
- Review the fellow's IRB prior to submission
- Review abstracts and manuscripts prior to submission

## Both

- Review posters and slides prior to presentations
- Attend 2 SOC meetings per year



# Other Scholarly Activities



Case submissions (PEMPix, EmergiQuiz, Case Reports)

Participation in National PEM Fellows' Conference

Feedback on presentations for conferences

Career workshop in July

Final year career planning at orientation

BCM Fellows' Day abstract presentations

# Other Activities (Optional)

Career dinners

Advanced degrees (MPH, MBA, MEd, Master's Clinical Research)

Writing book chapters or review articles

Teaching residents, medical students, paramedics

Evidence-Based Medicine course

Serving on section or hospital-wide committees



# PEM RESEARCH STRUCTURE

Research Chief



Directors of Research Education



Research Coordinators

Research Assistants

Academic Associates

PEM Section Support Staff

- Epidemiologist and database manager
- Biostatistician
- Accountant





# PECARN



*Conducting High Priority,  
High-Quality Research in  
Pediatric Emergency Care*

National PEM research network, 18 sites

TCH is a member site

Enables multicenter studies:

- Decision rules for CTs after head injuries
- DKA
- Meningitis prediction rules
- Multiple publications



[www.pecarn.org](http://www.pecarn.org)

# Research: ongoing studies

## PECARN

- ◆ C-spine prediction (Rubalcava)
- ◆ Arginine for sickle cell VOC (Chumpitazi – resubmission pending)
- ◆ Identification of pulmonary emboli (Chumpitazi – submission pending)
- ◆ Febrile baby study
- ◆ Screening for sexually transmitted infections in the ED
- ◆ Non-operative management of appendicitis (planning grant)
- ◆ Infections in solid organ transplant recipients (Cruz = study PI, nodal study)
- ◆ Interobserver agreement in historical and examination variables for headaches (Cruz = site PI)

## PEM CRC

- ◆ Submersion (Shenoi = study PI)
- ◆ IBIs in acute otitis media (Cruz = senior PI)
- ◆ HUS (Cruz = site PI)
- ◆ HSV (Cruz = Study PI)
- ◆ Omphalitis/mastitis (Cruz = site PI)
- ◆ Short gut and CLABSI (Cruz = Co-I)
- ◆ Survey competition (quarterly)

## PERN

- ◆ Medical errors (Lewis)
- ◆ Influenza (Meskill)

## Industry

- ◆ New drug for sickle cell VOC (Chumpitazi)
- ◆ Smart cough (Sampayo)
- ◆ Bluetooth monitoring of vital signs
- ◆ New diagnostic platforms for rapid strep
- ◆ Salivary biomarkers for traumatic brain injury

# Current Single-Center Studies (just a sampling)

Quality improvement projects: intubation, pain control in sickle cell patients, resuscitation/communication, appendicitis

Educational projects: ultrasound, simulation, rubrics, bad news delivery, e-learning

Global health: triage, resuscitation, simulation

Trauma: trampoline injuries, cognitive impact of mild traumatic brain injury, abuse in the NICU



# Examples of Fellows' Studies 2016-current

**Administration:** Optimizing billing for **procedural sedation** in the ED

**Asthma:** Standing Delegation Orders and **Triage Steroids**, Evaluating the inter-rater reliability and validity of the CRS in asthma patients,

**Bronchiolitis:** **High Flow Nasal Cannula** and Intubation risk

**Quality Improvement:** Barriers to **Flu vaccination** Best practice advisory, MIXED METHODS, Sedation

**Disparities: RETROSPECTIVE** Pediatric **submersions** and safety violations in city swimming pools, Demographic Discordances Between Patient Reported and Electronic Medical Records

**EMS:** Prehospital administration of steroids, Mixed-methods study on adherence to **pediatric seizure protocols** QUALITATIVE, Weight Tools

**POCUS:** POCUS **inferior vena cava** (IVC) measurements to assess the severity of the patient's dehydration; "**Development and Implementation of a Novel Point-of-Care Ultrasound Training for Pediatric Providers in Malawi**" **COVID and POCUS**

**Global Health:** Pediatric tropical infectious diseases in emergency medicine utilizing the **MODIFIED DELPHI METHOD**, Healthcare Provider Attitudes Toward the **Emergency Triage System in Belize**

**EDUCATION, SIMULATION- RCDP, Debriefing Tools, PEM Fellow Procedures: Essential components for debriefing pediatric residents returning from global health experiences**

**Infectious Disease:** Neonatal FEVER, RRTs

# Evaluations in PEM Fellowship

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360 evaluations-peer, self, outside rotations, procedural, PEM

Progress monitored monthly, quarterly, and semi-annually

Evaluated on all core competencies for PEM

# Moonlighting

1<sup>st</sup> years can start moonlighting after 2 quarterly evaluations cycles complete and competency ascertained

TX license, DEA and DPS numbers

Hospital credentialing papers and GME moonlighting approval must be obtained

Prior to completion of 2136 required clinical hours: moonlight only at non training sites

After completion of 2136 hours, moonlight anywhere

# PEM Chief Fellows



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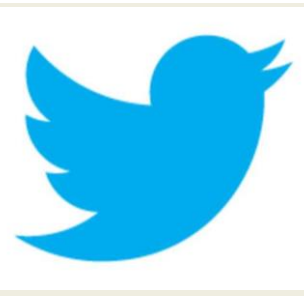


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Best noon talk of the week "Talk Data to me" by Toni Powell-Fortenot and  
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