Division Introduction

The Division of Pediatric Emergency Medicine (PEM) is one of the largest divisions within the Department of Pediatrics at UT Southwestern. Over the past 9 years, the division has grown from 9 PEM faculty to 23 and 5 general pediatricians. We continue to recruit additional faculty to meet increasing demand in the clinical service, research activities, and teaching. This past year we began planning for the new expansion at Dallas ED, which is expected to be completed Spring 2021. Our faculty have diverse clinical and research interests, including trauma, respiratory emergencies, neurologic emergencies, bedside ultrasound, and quality improvement.

The division’s faculty and PEM fellows provide clinical service at Children’s Health Emergency Departments at Children’s Medical Center Dallas and Children’s Medical Center Plano. Children’s Health emergency services remain one of the busiest emergency services in the country. Our 2017 patient volume for both campuses was 180,441 (Dallas, 130,672 and Plano, 49,769) with 44% non-urgent and low acuity patients evaluated in Fast Track. Our ED admission rate remains at 16.7% for Dallas and 8.1% for Plano, with nearly 40% of hospital admissions coming through the ED. Admission rate to the pediatric intensive care unit in Dallas is 2.2%, reflecting a relatively large number of acutely ill and injured children.

The Dallas Campus is a major pediatric referral center for Dallas County and the surrounding region, and is the only ACS Verified Level I pediatric trauma center in North Texas. One of the major responsibilities of the Pediatric Emergency Medicine faculty at a Level I pediatric trauma center is providing trauma stabilization and resuscitation for serious and critical injuries. Division faculty also provide medical oversight and physician coordination for the Children’s Health transport team and Dallas County EMS system (BioTel).

The Plano campus is a community hospital staffed with pediatric emergency medicine faculty, general pediatricians experienced in pediatric emergency medicine, and acute care advanced practice providers. In 2017, the Plano campus was designated a level 4 trauma center.

Under the direction of Halim Hennes, M.D., M.S., Division Chief, the PEM Division plays a vital role in providing attending physician support, supervising pediatric emergency medicine fellows, pediatric residents, emergency medicine residents, family medicine residents, and the advanced practice providers in the emergency departments at Children’s Medical Center Dallas and Plano campuses.

The division has an excellent research infrastructure with a full-time research coordinator, three research assistants, and two volunteer students. The research staff assist our faculty and fellows with IRB applications, patient enrollment, and maintain research materials. Our faculty are involved in several clinical research studies, designed to advance patient care and knowledge regarding asthma and other respiratory diseases, brain injury, pain management, bedside ultrasound, prehospital care, and noninvasive monitoring. Currently the division faculty are participating in 4 multicenter, federally funded research projects.

The division has a well-established fellowship program that provides strong clinical and research training in pediatric emergency medicine and plays a crucial role in clinical teaching of pediatric residents. The program accepts three fellows every year and participates in the national residency match program. Recently we have requested and obtained approval from the ACGME and UT Southwestern GME office to expand our fellowship program. Effective July 1, 2018, we will accept 4 fellows per year. The Division also provides the primary teaching faculty for medical students and other allied health professionals on the acute recognition, evaluation, and management of critically ill and traumatized children.

Halim Hennes, M.D., M.S.
Division Chief
Pediatric Emergency Medicine Division Leadership

Halim Hennes, M.D., M.S.
Professor
Division Chief

Mohamed Badawy, M.D.
Associate Professor
Medical Director-Dallas

Pamela Okada, M.D.
Professor
Medical Director-Plano

Ken Yen, M.D.
Associate Professor
Fellowship Director

Jo-Ann Nesliana, M.D.
Associate Professor
Associate Fellowship Director

Craig Huang, M.D.
Associate Professor
Director, EMS and Trauma

Michael Baldovsky, D.O.
Assistant Professor
Director, Referral Nurse Coordinator Program

David Rodriguez, M.D.
Assistant Professor
Director, ED Clerkship

Julie Ann Lively, B.B.A.
Division Administrator
Faculty

The Division has twenty-six full-time and two part-time faculty members and nine fellows, all with diverse research and administrative interests. Four new faculty joined the Division in 2016.

Rachel Long, D.O.
Instructor

B.S.
Michigan State University, East Lansing, MI, 2007

D.O.
Michigan State University, East Lansing, MI, 2011

Postdoctoral Training
Residency, Pediatrics
St. John Providence Children’s Hospital, Detroit, MI, 2011-2014
Fellowship, Pediatric Emergency Medicine
UT Southwestern Medical Center/Children’s Health, Dallas, TX, 2014-2017

Interests
Trauma, head injury, laceration care, and quality improvement

Jennifer McConnell, M.D.
Instructor

B.A.
University of Tulsa, Tulsa, OK, 2009

M.D.
University of Texas Southwestern Medical Center, Dallas, TX, 2013

Postdoctoral Training
Residency, Pediatrics

Interests
Resident medical education

Faisalmohemed Patel, M.D.
Instructor

M.B.B.S.
NHL Municipal Medical College, Gujarat University, Gujarat, India, 2008

Postdoctoral Training
Residency, Pediatrics
University of Wisconsin-Marshfield Clinic, Marshfield, WI, 2011-2014
Fellowship, Pediatric Emergency Medicine
Beaumont Children’s Hospital, Royal Oak, MI, 2014-2017

Interests
Prehospital medicine/EMS, dehydration in children, disaster preparedness and response, global health and innovations in medicine, and medical education
Ngoc “Kim” Van Horn, M.D.
Instructor

B.S.
Texas A&M University, College Station, TX, 2003

M.D.
Texas A&M University Health Science Center, Bryan, TX, 2011

Postdoctoral Training
Residency, Pediatrics
Texas A&M University, College Station, TX, 2014
Fellowship, Pediatric Emergency Medicine
Saint Louis University, St. Louis, MO, 2017

Interests
Emergency medicine and disaster medicine

Honors / Awards

Vicki Moore

- Promotion to Assistant Professor

Rustin Morse

- One of 50 Experts Leading the Field of Patient Safety, Becker’s Hospital Review

Invited Lectures

Rustin Morse

- Grand Rounds, Ochsner Hospital for Children, New Orleans, LA, Date?
  - “Building a Quality Program”

- Children’s Hospital Association of Texas, Texas Regional SPS Meeting, Houston, TX, February 2017
  - “Pediatric Readmissions”

- Children’s Hospital Association, 2017 Quality and Safety in Children’s Health Conference, Orlando, FL, March 2017
  - “Use PHIS to Prioritize and Evaluate Performance to Drive Improvement”

Conference Presentations

Aronson PL, Thompson AD, Cruz AT, Nigrovic LE, Okada P.

Oral, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Impact of Cerebrospinal Enteroviral Testing on Length of Stay for Hospitalized Infants 60 Days”

Badawy M, Darnell Bowens C, Reynolds T, Young G, Mittal V.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Impact of a Bronchiolitis Clinical Pathway on Emergency Department Resource Utilization: Sustaining Long Term Guideline Implementation through Data Driven Practice”

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Frequency of Contaminants in Bacterial Cultures of Infants 0-60 Days of Age”

Darnell Bowens C, Badawy M, Davila S, Zepeda M, Kravitz B, Thomsen C, Mittal V.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Ripple Effect of Emergency Department and Inpatient Bronchiolitis Clinical Practice Guideline (CPG) Implementation on Critically Ill Children”

Deramo J, Jaleel MA, Frost M.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Kangaroo Care in the Parkland NNICU: Improving Patient Participation”

Diebel A, Alder A, Nesiama J, Robertson B.

Poster, American Academy of Pediatrics National Conference & Exhibition, Chicago, IL, September 2017
“Pediatric Firearm Injuries: Demographics and Context of Injuries in Urban and Rural Communities”

Efune P, Darnell Bowens C, Sheehan M, Morse R, Robertson T, Malone T.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Improving Reliability with a Care Goal “Bundle” in the PICU”

Foldes, A, Long, R, Nesiama J.

Poster, Southern Regional Meeting, Society for General Internal Medicine, New Orleans, LA, February 2017
“A Four Month Old with ileal Duplication Cyst”


Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Delayed Diagnosis in Children Diagnosed with Constipation: Multicenter Retrospective Cohort Study”


Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Effectiveness of Pediatric Asthma Pathways for Hospitalized Children”

Kurz K, Huang Z, Badawy M, Yen K.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“CT Angiogram of Neck for Pediatric Blunt Cerebrovascular Injury: A Case Series”

Le NA, Charney R, Gerard J.

Oral, World Association of Disaster and Emergency Medicine (WADEM) Annual Meeting, Toronto, Canada, April 2017
“Feasibility of the Novel Combination of Influenza Vaccinations, and Child Passenger Safety Seat Fittings, in a Drive-Thru Clinic Setting”
Le NA, Scalzo, A.

Poster, Saint Louis University Pediatric Science Days Symposium, St. Louis, MO, May 2017
“Hypoglycemia & Altered Mental Status in a Tramadol Ingestion”

Le NA, Nakanishi, A.

Poster, Saint Louis University Pediatric Science Days Symposium, St. Louis, MO, May 2017
“Prospective evaluation of guardian & staff satisfaction with the use of an Emergency Department Subcutaneous Rehydration Clinical Practice Guideline”

Long R, Diesen D, Robertson B, Leonard D, Nesiama J.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Is There a Need for an Observation Period in the Emergency Department after Accidental Pediatric Blunt Head Injury?: A Pilot Study”


Oral, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Trends in Heated High Flow Nasal Cannula Use in Hospitalized Children with Bronchiolitis and its Impact on Intubation Rate, Ward Length Stay, and Air Leak Syndrome: A Six Year University Pediatric Practice Analysis”

Mittal V, Darnell Bowens C, Zepeda M, Davila S, Daigle B, Manly D, Badawy M.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Effect of Long Term Bronchiolitis Guideline Implementation on Non-Guideline Eligible Complex Medical Children Hospitalized with Acute Bronchiolitis”


Oral, Pediatric Hospital Medicine Conference, Nashville, TN, July 2017
“High Flow Nasal Cannula Use in Bronchiolitis: A Six Year Practice Analyses”

Mittal V, Badawy M, Zepeda M, Darnell Bowens C, Davila S, Manly D.

Poster, Pediatric Hospital Medicine Conference, Nashville, TN, July 2017
“Bronchiolitis Guideline Implementation Impact Medically Complex Children”

Mittal V, Zepeda M, Darnell Bowens C, Badawy M, Davila S, Kravitz B, Thompsen C.

Poster, Pediatric Hospital Medicine Conference, Nashville, TN, July 2017
“Ripple Effect of Inpatient Bronchiolitis Guideline Implementation in PICU”

Morse R, Hall M, Shah SS, Macy M.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Has the time come to reevaluate how we benchmark hospital-level performance?”

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Do Pediatric Asthma-Related Discharge Interventions Reduce Readmission Rates? A Study of Asthma Related Discharge Interventions at Children’s Hospitals”

Patel F, Levasseur M, Menoch M.

Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Emergency Medical Services Treatment Protocols for Children: Utilization and Adherence in Practice”


Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Use of Continuous Albuterol Nebulization Treatment on a 24/7 Attending-Only Inpatient Pediatric Asthma Unit”


Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Longitudinal Trends in Emergency Department Utilization Among Medicaid Insured Children: Who Remains a High Utilizer?”


Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Characteristics of Medicaid Insured Children with High Frequency of Emergency Department Use”


Poster, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Identifying Children at Risk for Frequent Low Resource Intensity Emergency Department Visits”


Oral, Pediatric Academic Societies Meeting, San Francisco, CA, May 2017
“Adding Social Determinant Data Changes Children’s Hospitals’ Readmissions Performance”

Education and Training

The Division of Pediatric Emergency Medicine provides educational opportunities for medical students and residents, in addition to its fully accredited fellowship program. Our educational activities include didactic lectures covering core PEM curriculum, simulation labs for enhancing clinical and procedural skills, small group discussions, bedside teaching in the ED, and Pediatric Advanced Life Support (PALS).

The faculty educational activities also include educational seminars for other community physicians, advanced practice providers, EMS personnel, and other allied health professionals.
Medical Students

The Emergency Medicine faculty and fellows are very active in providing didactic education to UT Southwestern medical students, as well as physicians locally and nationally.

The Division offers a fourth-year clerkship for medical students, that provides in-depth exposure to Pediatric Emergency Medicine through recognition, evaluation, and management of the acutely ill and injured child.

Residents

Major internal educational activities include didactic lectures to the Pediatric residents, as well as Family Medicine and Emergency Medicine residents. Training in the emergency department is often sought by residents from other pediatric training programs in Texas and Oklahoma.

The objectives of the course are to:

- Recognize, evaluate, and manage acutely ill and injured pediatric patients
- Master technical skills, including: venous access, venipuncture, lumbar puncture, laceration repair, splinting, and bladder catheterization
- Evaluate and manage common pediatric complaints and disease processes
- Acquire and maintain efficiency and prioritization required to care for multiple patients simultaneously

Requirements for this course include:

- Core competencies: common complaints, disease processes, and technical skills
- Monthly patient lists: chief complaint and diagnosis
- Noon and monthly emergency room conferences and grand rounds

Education opportunities include:

- Group check-out rounds
- Monthly Pediatric Emergency Medicine Conferences
- "Emergigrams"
- "Article of the Month"
- Pediatric Emergency Medicine Fellows Meeting
- Core Journal CD
- "Case of the Month"

Fellows

The well-established Pediatric Emergency Medicine Fellowship Program accepts both pediatric- and emergency medicine-trained residents with an interest in furthering their careers in pediatric emergency medicine.

The program provides strong clinical training and includes a comprehensive research curriculum with didactic teaching that covers basic research concepts and statistics.

Drs. Ken Yen and Jo-Ann Nesiama with 2017 fellow graduates, Drs. Rachel Long, Andrea Diebel, and Courtney Shockley
Division faculty have diverse research interests, offering the fellows a unique opportunity to select the appropriate mentor with interests that match theirs. An experienced research coordinator is available to assist faculty and fellows with their research projects.

Faculty and fellows play a major role in the education of pediatric residents, family medicine residents, adult emergency medicine residents, and medical students. Recognizing the outstanding clinical training and opportunities to evaluate and manage a diverse population of acutely ill and injured children, fellows from other Pediatric Emergency Medicine Fellowship Programs often submit requests for elective rotations here.

**Research Activities**

PEM serves a diverse population with broad pediatric pathology and high acuity, providing an ideal environment for clinical research. Because of a rich clinical service and broad research interests, the Division has been routinely selected to participate in multicenter, national, and international level studies. The research team has a proven track record of success by becoming one of the top enrolling sites for numerous multi-center federally funded studies.

The mission of the Division is to conduct state of the art clinical research, with an emphasis on improving the clinical care and outcome of the acutely ill or injured child. The pillars of the research program in the Division include trauma, EMS/pre-hospital management, injury prevention, pain management, sedation, respiratory care, and neurologic emergencies.

The research infrastructure includes a full time dedicated research coordinator and three research assistants. The research assistants are present in the Emergency Department 15 hours per day. In addition, we have two medical students working as volunteer research assistants.

The Division has created a Research Council to review and oversee all PEM research. The council is composed of the Division, Research, and Fellowship Directors, the Associate Director of the Fellowship Program, Research Coordinator, faculty members of the Injury Prevention Program, a member of the Emergency Medicine nursing management and nursing education staff, and select senior PEM faculty. The PEM Research Council's purpose is to review and oversee all PEM research development and conduct. The council was formed in order to have a committee within the Division with research expertise to provide advice and support for projects and to help projects reach their full potential.

**Clinical Activities**

Pediatric Emergency Medicine faculty and fellows provide emergency services at Children's Health. In 2017 we evaluated 180,441 ill and injured children at both Dallas and Plano campuses. Nearly 44% of these patients had non-urgent or low acuity complaints and were evaluated in Fast Track. Our ED admission rate remains at 16.7% for Dallas and 8.1% for Plano, with nearly 40% of all hospital admissions presenting through the ED. The Dallas ED is the only Level 1 pediatric trauma center in North Texas, and one of the busiest pediatric emergency medicine clinical services in the country. As the pediatric trauma center for Dallas County, we provide emergency care for a variety of complex problems in children with special health care needs.
Two pediatric emergency medicine faculty, Drs. Sing-Yi Feng and Collin Goto, are also certified toxicologists. They manage a special Lead Poisoning Clinic at Children’s and provide toxicology consultation service at Children’s, Parkland Memorial Hospital, and Clements University Hospital.

The emergency department serves as the clinical laboratory for the division faculty, where more than a dozen investigative studies are ongoing and designed to answer critical questions that will improve the care provided to children in crisis. Study themes include: treatment of respiratory diseases, pain management and sedation, injury epidemiology, noninvasive monitoring, and brain injury research.

**Telemedicine Program**

The TeleER started in 2016 and has evolved over the past 12 months. We currently serve 12 hospital emergency departments and have two telemedicine stations; one in the Dallas ED and one in the Plano ED. Drs. Halim Hennes, Mohamed Badawy, and Pamela Okada serve as the backup telemedicine consultants when the ED is busy and unable to respond. In 2016 we responded to 61 consults, an average of 5/month.

**Patient Statistics**

### Dallas Main Emergency Department

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Volume</td>
<td>70,260</td>
<td>72,757</td>
</tr>
<tr>
<td>Trauma (Patients meeting trauma criteria)</td>
<td>835</td>
<td>835</td>
</tr>
<tr>
<td>Admissions</td>
<td>12,048</td>
<td>11,954</td>
</tr>
<tr>
<td>Median time arrival to departure (minutes)</td>
<td>221</td>
<td>258</td>
</tr>
</tbody>
</table>

### Dallas Emergency Department Trauma Statistics

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trauma stat activation</td>
<td>119</td>
</tr>
<tr>
<td>Trauma Alert activation</td>
<td>366</td>
</tr>
<tr>
<td>Trauma consult</td>
<td>329</td>
</tr>
<tr>
<td>Trauma admission</td>
<td>1,372</td>
</tr>
</tbody>
</table>

### Plano Emergency Department

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual volume</td>
<td>46,553</td>
<td>49,769</td>
</tr>
<tr>
<td>Admissions</td>
<td>3,647</td>
<td>4,042</td>
</tr>
<tr>
<td>Median time arrival to departure (minutes)</td>
<td>131</td>
<td>131</td>
</tr>
</tbody>
</table>

### Dallas Fast Track

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual volume</td>
<td>54,909</td>
<td>57,915</td>
</tr>
<tr>
<td>Median time arrival to departure (minutes)</td>
<td>146</td>
<td>158</td>
</tr>
</tbody>
</table>
Current Grant Support

Mohamed Badawy

**Grantor:** NIH / NICHD  
**Title of Project:** Use of Mechanism of Injury for the Identification of Severely Injured Children  
**Role:** Co-investigator; Site Principal Investigator  
**Dates:** 11/2013 – 7/2017

**Grantor:** NICHD  
**Title of Project:** Validation of Decision Rules for CT Use in Children with Abdominal or Head Trauma  
**Role:** Co-principal Investigator  
**Dates:** 7/2016 – 6/2020

Pamela Okada

**Grantor:** NIH / National Institute of Neurological Disorders and Stroke  
**Title of Project:** Established Status Epilepticus Treatment Trial (ESETT)  
**Role:** Principal Investigator; Site Investigator  
**Dates:** 09/2014 - 08/2019

Kenneth Yen

**Grantor:** Texas Higher Education Coordinating Board: Emergency and Trauma Care Education Partnership Program  
**Title of Project:** Pediatric Emergency Medicine Fellowship Expansion  
**Role:** Project Lead  
**Dates:** 5/2016 – 6/2018

Peer-Reviewed Publications


