

# **Stephen M. Sandelich, MD**

**Curriculum Vitae Date: 3/7/24**

## **Current Position**

8/2022-Present

Penn State Health Milton S. Hershey Medical Center, Hershey, PA  
Attending Physician, Pediatric Emergency Medicine  
Assistant Professor, Emergency Medicine and Pediatrics

## **Contact Information**

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## **Education and Training**

7/2014 – 6/2017

Nemours/AI duPont Hospital for Children, Wilmington, DE  
Fellow, Pediatric Emergency Medicine

7/2011 – 6/2014

St. Christopher's Hospital for Children, Philadelphia, PA  
Intern, Pediatrics  
Resident, Pediatrics

8/2007-5/2011

Drexel University College of Medicine, Philadelphia, PA  
Doctor of Medicine

8/2003-5/2007

Duquesne University, Pittsburgh, PA  
Bachelor of Science, cum laude  
Minor Psychology and Biochemistry  
Thesis Title: The Nutritional Endoderm of *Eleutherodactylus coqui*

## **Certifications**

Pennsylvania Medical License  
Physician; current 2024  
DEA; current through 2024  
BLS, Current through 12/2024  
ACLS, Current through 12/2025

PALS, Current through 12/2025  
ATLS, Current through 12/2025

### **Professional Development Activities**

- 1/2024-3/2024: Penn State ECHO Series
  - Medication for Opioid Use Disorder
- 1/2024-3/2024: Penn State ECHO Series
  - Adolescent Alcohol and Substance Use
- 1/2024-3/2024: Penn State ECHO Series
  - Mental Health for Primary Care Providers
- 8/2023-current
  - Grants Academy, Penn State College of Medicine
- 8/2023-current
  - Junior Faculty Development Program, Penn State College of Medicine and Penn State Health Milton S. Hershey Medical Center
- 8/2023
  - ACEP/CORD Teaching Fellowship, American College of Emergency Physicians
- 1/2023-4/2023
  - IHI Open School, Quality Improvement and Patient Safety, Institute for Healthcare Improvement
- 12/2022-Current: Penn State ECHO Series
  - Diagnosing and Managing Substance Use Disorder
- 10/2016-6/2017
  - Micro-MBA, Nemours/AI duPont Hospital for Children, Wilmington, DE/Fox School of Business at Temple University
- 3-10/2015
  - Fellows Statistics Course, Basic and Intermediate, Nemours/AI duPont Hospital for Children, Wilmington, DE
- 3/2015
  - First-Year PEM Fellows Conference, American Academy of Pediatrics, Section on Emergency Medicine
- 7/2014
  - PEM Fellows Skills Course, Nemours/AI duPont Hospital for Children, Wilmington, DE

### **Work Experience**

7/2020-6/2022

Mary Bridge Children's Hospital, Tacoma, WA  
Attending Physician, Pediatric Emergency Medicine

7/2017-6/2020

Grand Strand Medical Center/Summerville Medical Center, Charleston/Myrtle Beach, SC  
Attending Physician, Pediatric Emergency Medicine

7/2017-11/2017

St. Christopher's Hospital for Children, Philadelphia, PA  
Attending Physician, Pediatric Emergency Medicine

11/2014-6/2017

Nemours/AI duPont Hospital for Children, Wilmington, DE  
Attending Physician, Pediatric Emergency Medicine-Fast Track

7/2014-6/2017

St. Christopher's Hospital for Children, Philadelphia, PA  
Attending Physician, Pediatric Emergency Medicine-Fast Track

### **Professional Organizations**

American Academy of Pediatrics

- Section on Emergency Medicine
- Section on Anesthesiology & Pain Medicine
- Council on Quality Improvement and Patient Safety

American College of Emergency Physicians

- National Committee on Pediatric Emergency Medicine
- Emergency Medicine Practice Management and Health Policy Section
- Emergency Ultrasound Section
- Pain Management & Addiction Medicine Section

Society for Academic Emergency Medicine

- Research Committee
- Pediatric EM Interest Group
- Quality & Safety Interest Group

### **Clinical and Administrative Activities**

03/2024-Present      Opioid Use Disorder Interest Group Lead

Pediatric Emergency Care Applied Research Network

I co-lead an interest group of approximately 30 researchers through the PECARN network to refine, develop, and run research studies related to pediatric opioid use disorders.

03/2024-Present      Section Editor: Pediatrics

The Western Journal of Emergency Medicine

I review scientific articles for WestJEM, consolidating the peer reviewer comments and determining if the articles fit the scope of the journal. I help to make final determinations on acceptance for articles to the journal.

11/2023-Present      Research-To-Policy Collaboration

Penn State Health Milton S. Hershey Medical Center, Hershey, PA

I work with the RPC to facilitate meaningful collaboration between legislative officials and translational research to advance evidence-based care for children on the local, regional, and national levels.

11/2023-Present      DEM Pre-IRB Review Committee  
Penn State Health Milton S. Hershey Medical Center, Hershey, PA  
I review research proposals from the Department of Emergency Medicine prior to submission to the IRB. I edit protocols and help to strengthen research proposals.

11/2023-Present      Peer Reviewer  
The Western Journal of Emergency Medicine  
I am a peer reviewer for WestJEM, specifically focusing on areas of pediatric emergency medicine. I currently review approximately 2-3 articles/month.

10/2023-Present      The Naloxone Project's Naloxone Training Delphi Task Force  
The Naloxone Project  
I am part of a task force working to create the most advanced and definitive overdose recognition and naloxone training for both lay persons and medical providers.

7/2023-present      Adolescent Mental Health Screening Program  
Penn State Health Milton S. Hershey Medical Center, Hershey, PA  
I am implementing and validating a mental health and substance misuse program in the pediatric emergency department.

10/2022-present      Opioid Harm Reduction Initiative  
Penn State Health Milton S. Hershey Medical Center, Hershey, PA  
I am working with local and state resources to source, distribute, and track a supply of home naloxone nasal spray and fentanyl test strips to distribute to emergency department patients. Developing research and QI projects to determine the optimal distribution methods. Engaging all levels of providers with education on harm reduction strategies.

8/2022-present      Opiate Withdrawal Treatment Initiative  
Penn State Health Milton S. Hershey Medical Center, Hershey, PA  
I am developing a workgroup to initiate an emergency department-based opiate withdrawal treatment protocol. Meeting with stakeholders, performing needs assessments, and querying local resources. Plan on developing an opiate treatment protocol, initiating medicated assisted treatment in the emergency department, and performing a warm handoff to local care providers for continuity of care.

10/2022-12/2023      Quality Improvement Committee  
Penn State Health Milton S. Hershey Medical Center, Hershey, PA  
I currently serve as the pediatric representative for the quality improvement committee. I work to identify multilevel system issues and develop systemic solutions.

8/2022-Present      Student and Resident Mentor  
Penn State Health Milton S. Hershey Medical Center, Hershey PA  
I am mentoring multiple medical students and residents in research and publishing endeavors. Helping mentees develop skills to design research projects, write IRB proposals, complete

research projects, and learn to write medical publications, including book chapters and manuscripts. Teaching pediatric and emergency medicine procedural skills through simulation.

6/2021-6/2022 Opiate Withdrawal Treatment Initiative

Mary Bridge Children's Hospital, Tacoma WA

I headed a multidisciplinary initiative including physicians, pharmacists, nurses, social workers, and leadership to develop and implement an opiate withdrawal treatment program for adolescent emergency department patients with close ties to outpatient and inpatient providers for continuity of care.

12/2020-6/2022 Quality Improvement Committee

Mary Bridge Children's Hospital, Tacoma WA

I participated in an ongoing multidisciplinary case review of medical and surgical cases with concerns regarding provided care. Additionally, I offered constructive feedback to the Emergency Department on improving care in similar circumstances.

11/2020-6/2022 ED Length of Stay Committee

Mary Bridge Children's Hospital, Tacoma WA

I worked to determine the leading causes of prolonged stays for patients in our Emergency Department and methods for reducing these delays.

10/2020-6/2022 Point of Care Ultrasound Implementation Group

Mary Bridge Children's Hospital, Tacoma WA

I worked in a multidisciplinary group to perform a needs analysis and strategy for implementing a point-of-care ultrasound program in the Emergency Department.

7/2015 – 6/2017 Fellow Research Project

Nemours AI duPont Hospital for Children, Wilmington, DE

Developed and implemented a clinical decision support system (CDSS) embedded into the electronic medical record to improve the evaluation and management of pediatric sexual abuse victims. Evaluated for improvement after implementation of CDSS.

10/2016-6/2017 Mental Health Screening Implementation

Nemours AI duPont Hospital for Children, Wilmington, DE

I worked to develop and implement a depression, suicide, and mental health screen for teens in the Emergency Department.

7/2016-6/2017 Ultrasound Educational Coordinator, Pediatric Emergency Medicine

Nemours AI duPont Hospital for Children, Wilmington, DE

Coordinated ultrasound education for the Emergency Department and the fellow's educational curriculum. Organized monthly educational meetings, presented lectures, and provided hands-on ultrasound instruction. I procured a new ultrasound unit for the Emergency Department. I Developed and implemented a quality assurance and recording system. I worked with hospital leadership to develop credentialing for emergency medicine physicians.

### **Mentorship and Advising Activities**

1/2023-present: Daniel Rittenhouse, Medical Student, 15 hrs/year, Penn State College of Medicine

- Daniel submitted a manuscript: **A national survey of Pediatric Emergency Medicine Providers' comfort level, beliefs, and Experiences with initiating buprenorphine in the Emergency Department to The Western Journal of Emergency Medicine** on **12/18/23**

3/2023-present: Ellen Jordan, Medical Student, 15 hrs/year, Penn State College of Medicine  
Evaluation of Associations Between Pennsylvania Child Fatality/Near Fatality Reports and Socioeconomic Vulnerability

3/2023-present: Manvita Mareboina, Medical Student, 15 hrs/year, Penn State College of Medicine  
Evaluating the Relationship Between CDC Social Vulnerability Data and Adolescent Substance Use Disorders

3/2023-present: Kunal Koka, Medical Student, 15 hrs/year, Penn State College of Medicine  
A Comparative Study on Pediatric Emergency Department Visits and CDC's Social Vulnerability Index Data

3/2023-present: Grace Hwang, Medical Student, 15 hrs/year, Penn State College of Medicine  
Analysis of Naloxone Administration in Pediatric Patients: Indications and Dosages

5/2023-present: Arisha Tariq, Medical Student, 15 hrs/year, Penn State College of Medicine  
Association Between Substance Abuse Treatment Accessibility and Mental Health Outcomes in Adolescents

- Arisha was awarded the **Bedrick Family Medical Student Award** on 6/13/2024 for her work

5/2023-present: Dhaval Ganhdi, Medical Student, 15 hrs/year, Penn State College of Medicine  
Assessment of the Association between Parental Income and Adolescent Substance Use Disorders and Mental Health Conditions

7/2023-present: Hayes Stancliff, Medical Student, 15 hrs/year, Penn State College of Medicine  
• Hayes submitted a manuscript: **Evaluating Trends in Chemical Sedation for Agitated Pediatric Patients in the Prehospital Setting Using the NEMESIS Database and CSC/SVI Data**, to **Academic Emergency Medicine** on **6/16/24**

### Grant Support

#### **Pending**

1. Junior Faculty Development Program Project Support. Penn State College of Medicine. Submitted 12/11/23

2. Emergency Medicine Foundation Pilot Research Grant: Clinical Trajectories of Adolescents with Substance Use and Mental Health Conditions After Evaluation in the Emergency Department. \$100,000. Submitted 1/19/24
3. H. G. Barsumian Memorial Fund: Adolescent Substance Use Screening in Pediatrics. \$25,000. Submitted 5/21/24

## Publications

### Peer-reviewed Journal Articles

1. Singh S, **Sandelich S**. Current Status of the Diagnosis and Treatment of Pediatric Urinary Tract Infections. *Pediatric Emergency Medicine Reports*. 2014;19(2)
2. **Sandelich S**, Adirim TA. An Unusual Cause of Back Pain in a 10-Year-Old Girl. *Pediatr Emerg Care*. 2016;33(5):352-355
3. **Sandelich S**, Stowens J, Saks M. The use of point-of-care ultrasound to aid in the diagnosis of hematometocolpos. *Visual Journal of Emergency Medicine*. 2018; 10: 73-74. 10.1016/j.visj.2017.07.009.
4. **Sandelich S**, DePiero A. Lyme Pseudothrombophlebitis, *Pediatr Emerg Care*. 2019;35(5):e93-e95
5. Basile D, **Sandelich S**. Pediatric Chest Trauma. *Trauma Reports*. 2023
6. Swimmer KR, **Sandelich S**. Substance Use Disorder; *Emergency Medicine Clinics of North America*, 2023
7. Marco CA, **Sandelich S**, Nelson E, Hu E, Locke D, Boehmer S. Vital signs among emergency department trauma patients in the setting of alcohol or drug use. *Injury*. 2024;55(1):111024. doi:10.1016/j.injury.2023.111024
8. Ung R, **Sandelich S**. Pediatric Status Epilepticus. *Pediatric Emergency Medicine Reports*. 2023
9. DeAustin W, **Sandelich S**. Lung Injury from Vaping. *Critical Decisions in Emergency Medicine*. 2023; 37(11):12-14
10. Tariq A, **Sandelich S**. Pediatric Rash Post Vaccination. *Critical Decisions in Emergency Medicine*. 2023; 38(2):16-17
11. **Sandelich S**, Hooley G, Hsu G, Rose E, Ruttan T, Schwarz ES, Simon E, Sulton C, Wall J, Dietrich AM. Acute opioid overdose in pediatric patients. *J Am Coll Emerg Physicians Open*. 2024 Mar 7;5(2):e13134. doi: 10.1002/emp2.13134. PMID: 38464332; PMCID: PMC10920943.
12. Turner M, **Sandelich S**. Nonaccidental Trauma. *Trauma Reports*. July/August, 2023
13. Turner MD, **Sandelich S**, Marco C. Rapid progression of orbital abscess requiring lateral canthotomy in a pediatric patient. *Am J Emerg Med*. 2024 Jun;80:229.e1-229.e3. doi: 10.1016/j.ajem.2024.04.028. Epub 2024 Apr 21. PMID: 38664102.
14. Turner M, **Sandelich S**. Septic Shock Caused by a Perforated Appendix. *Critical Decisions in Emergency Medicine*. 2024; 38(4):14-15

### Submitted Journal Articles

1. Transient Ischemic Attack in Pediatric Restrictive Cardiomyopathy. Submitted to *WestJEM* on 12/18/2023

2. A National Survey of Pediatric Emergency Medicine Providers' Comfort Level, Beliefs, and Experiences with Initiating Buprenorphine in the Emergency Department. Submitted to WestJEM on 1/5/2024
3. Opioid Use Disorder in Pediatric Patients. Submitted to JACEP Open on 5/2/24
4. Impact of Comorbid Mental Health Disorders on Buprenorphine and Methadone Prescription Rates in Adolescents with Opioid Use Disorders. Submitted to Journal of the American Academy of Child and Adolescent Psychiatry on 5/29/24
5. Healthcare Utilization Patterns Among Adolescents with Dual Diagnoses of Mental Health and Substance Use Disorders. Submitted to American Journal on Addictions on 5/29/24

### **Book Chapters**

1. **Sandelich S**, Russo C. Burn Wound Management; Reichman's Emergency Medicine Procedures, 3e; McGraw-Hill Education; 2018
2. Singh S, **Sandelich S**. Respiratory Emergencies, Pediatric Emergency Medicine Secrets; 2023

### **Invited Lectures and Workshop**

1. Neonatal Resuscitation
  - a. 5/8/2024: UPMC Harrisburg Emergency Medicine Residency, Harrisburg, PA
  - b. 20 Emergency medicine residents and medical students
2. The Adolescent Opioid Crisis
  - a. 5/3/2024: Pennsylvania Chapter of ACEP, Yearly Scientific Meeting
  - b. 50 Physicians and trainees
3. The Adolescent Opioid Crisis
  - a. 4/19/2024: Penn State Health Milton S. Hershey Medical Center, Hershey, PA
  - b. 25 Penn State Medical Center Faculty-JFDP Program
4. The Pediatric Difficult Airway
  - a. 4/17/2024: UPMC Harrisburg Emergency Medicine Residency, Harrisburg, PA
  - b. 20 Emergency medicine residents and medical students
5. Pediatric Emergency Medicine
  - a. 04/2024: EMRAP: Penn State Health Milton S. Hershey Medical Center, Hershey, PA
  - b. 10 Pre-medical students
6. First Week of Life Emergencies and Breastfeeding in the Emergency Department
  - a. 1/24/2024: UPMC Harrisburg Emergency Medicine Residency, Harrisburg, PA
  - b. 20 Emergency medicine residents and medical students
7. Pediatric Altered Mental Status
  - a. 1/18/2024: Penn State Medical Center Pediatric Residency
  - b. 25 Pediatric residents and medical students
8. A National Survey of Pediatric Emergency Medicine Providers' Comfort Level, Beliefs, and Experiences with Initiating Buprenorphine in the Emergency Department & Panel Discussion on Opiate Use Disorder
  - a. 12/8/2023: Ninth Annual Penn State Addiction Symposium, Hershey, PA
  - b. 200 Healthcare professions

9. Non-accidental trauma in the Emergency Department
  - a. 11/8/2023: UPMC Harrisburg Emergency Medicine Residency, Harrisburg, PA
  - b. 20 Emergency medicine residents and medical students
10. Red Alert: Decoding Pediatric Rashes in the ED
  - a. 08/23/2023: UPMC Harrisburg Emergency Medicine Residency, Harrisburg, PA
  - b. 20 Emergency medicine residents and medical students
11. Kids in Pain: Pain Management in Children
  - a. 05/20/2023: Penn State Health Milton S. Hershey Medical Center EMS Spring Fling, Hershey, PA
  - b. 40 Emergency medical service professionals
12. Careers in Pediatric Emergency Medicine
  - a. 04/2023: EMRAP: Penn State Health Milton S. Hershey Medical Center, Hershey, PA
  - b. 10 Pre-medical students
13. Sudden Cardiac Death in the Pediatric Athlete  
09/2021: Mary Bridge Children's Hospital, Tacoma, WA
14. APLS (Advanced Pediatric Life Support) for Emergency Medicine Residents  
04/2019: Grand Strand Medical Center, Myrtle Beach, SC
15. Evaluation of Sexual Abuse in the Emergency Department  
2/13/19: Grand Strand Medical Center, Myrtle Beach, SC
16. Applications of Ultrasound in the Pediatric Emergency Department and Intern Ultrasound Bootcamp  
12/2019: Grand Strand Medical Center, Myrtle Beach, SC
17. Applications of Ultrasound in the Pediatric Emergency Department  
1/17/18: Grand Strand Medical Center, Myrtle Beach, SC
18. Foundations of Pediatric Emergency Medicine  
11/6/17: Grand Strand Medical Center, Myrtle Beach, SC
19. Resident Resuscitation Day-Selected Cases and Airway Management  
5/12/2017: Department of Emergency Medicine, AI DuPont Hospital of Children, Wilmington, DE
20. Pediatric Emergency Medicine Skills Course for Pediatricians-Ultrasound Guided Intravenous Access  
3/30/2017: Department of Emergency Medicine, AI DuPont Hospital of Children, Wilmington, DE
21. Intern Procedure Day- Intravenous Access  
6/16/2016: Department of Pediatrics, AI DuPont Hospital of Children, Wilmington, DE
22. Neonatal Fever  
12/1/2016: Department of Emergency Medicine, Crozer Medical Center, Philadelphia, PA
23. Evaluation of Sexual Abuse in the Emergency Department  
8/1/2016: Department of Emergency Medicine, Penn State Medical Center, Hershey, PA
24. The Toxic Effects of Nicotine and e-Cigarettes  
12/12/2014: Department of Emergency Medicine, Einstein Medical Center, Philadelphia, PA

## Research Presentations

1. Rittenhouse D and **Sandelich S**. A National Survey of Pediatric Emergency Medicine Providers' Comfort Level, Beliefs, and Experiences with Initiating Buprenorphine in the Emergency Department. Poster Presentation: 2024 Eastern Society for Pediatric Research Annual Meeting, 3/10/24
2. **Sandelich S** and Thompson A. A Clinical Decision Support System Improves the Evaluation and Management of Pediatric Victims of Sexual Assault. Poster Presentation: 2017 Pediatric Academic Society Annual Meeting, May 9, 2017
3. McColgan M, Ellen S, **Sandelich S**, Kuykendal S, Davis M, Witherspoon M, Ellen S, Bernstein B The Family Safe Zone: A Needs Assessment For A Multi-Level Parenting Intervention In The Pediatric Setting. Poster Presentation: 2013 Pediatric Academic Society Annual Meeting, May 7, 2013, Poster and platform presentation: St. Christopher's Hospital for Children Research Day, May 31, 2013
4. McColgan M, **Sandelich S**, Kuykendall S, Ellen S, Davis M, Dempsey S, Witherspoon M, Bernstein. B Needs Assessment of Parents in a Multi-Level Parenting Intervention in the Pediatric Setting. Poster Presentation: 2013 Pediatric Academic Society Annual Meeting, May 7, 2013
5. **Sandelich S**, Cruz M. Can a Pediatric Homeless Shelter Clinic Reduce Low Acuity Emergency Department Visits by Homeless Children, Platform presentation: 2012 Eastern Society for Pediatric Research Annual Meeting. March 31, 2012
6. Cruz M, Taylor DR, **Sandelich S**, Metha A. A Needs Assessment of Health Care Providers for a Violence Prevention Program at a Pediatric Hospital, Poster and platform presentation: St. Christopher's Hospital for Children Research Day, June 4, 2010, Poster presentation: Drexel University College of Medicine Research Day, April 16, 2010, Office of Research Award for Research Day 2010, Platform presentation: 2010 Eastern Society for Pediatric Research Annual Meeting. March 27, 2010
7. **Sandelich S**, Chopra A, Stolberg B, Wechsler A, Janmey P, Kresh J. Cardiac Mechanotransduction: Extracellular Matrix Transduced Tensional Forces Activate Adhesion And Cardiomyocyte Specific Genes, Poster Presentation: Drexel University College of Medicine Research Day, April 23, 2009
8. **Sandelich S** and Elinson R: The Role Of Eccad1 In Gut Formation In Eleutherodactylus Coqui, Poster presentation: 2006 Duquesne University Summer Research Symposium, August 3, 2006, Poster Presentation: 2007 UMBC Undergraduate Research Symposium, March 13, 2007

## **Personal Interests**

Wine Making, Woodworking, Fly Fishing, Cooking

## **Professional References**

Kathryn M. McCans Pediatric Emergency Department Medical Director,  
Penn State Health Hershey Medical Center  
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Andrew DePiero Pediatric Emergency Fellowship Director  
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