

## Aaron William Calhoun, MD, FAAP, FSSH

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### EDUCATION

1993 - 1997 B.A., May 1997 Washington and Jefferson College, Washington, Pennsylvania  
1997 - 2001 M.D., Johns Hopkins School of Medicine  
2001 - 2004 Resident in Pediatrics, McGaw Medical Center at Northwestern University, Chicago, Illinois  
2004 - 2007 Fellow, Pediatric Critical Care, Children's Hospital of Boston, Harvard University, Boston, Massachusetts  
2006 Harvard Macy Institute Program for Educators in the Health Professions, Boston, Massachusetts  
2006 Simulation as a Teaching Tool Instructor Training Center for Medical Simulation, Cambridge, Massachusetts

### ACADEMIC APPOINTMENTS

2007 - 2013 Assistant Professor of Pediatrics  
University of Louisville  
Louisville, Kentucky

2007 - present Attending Physician, Pediatric Intensive Care Unit  
Norton Children's Hospital  
Louisville, Kentucky

2009 - 2010 Director, SPARC (Simulation for Pediatric Assessment, Resuscitation, and Communication)  
Working Group  
University of Louisville  
Louisville, Kentucky

2010 - 2022 Director, SPARC (Simulation for Pediatric Assessment, Resuscitation, and Communication) Program  
Norton Children's Hospital  
Louisville, Kentucky

2022 - present Senior Advisor, SPARC (Simulation for Pediatric Assessment, Resuscitation, and Communication)  
Program  
Norton Children's Hospital  
Louisville, Kentucky

2013 - 2019 Associate Professor  
University of Louisville  
Louisville, Kentucky

2013 – present Faculty Associate, Institute for Professionalism and Ethical Practice

2014 Awarded Tenure at University of Louisville

2016 – 2021 Director of Faculty Development – Division of Pediatric Critical Care

2018 – present Director, CAHRDS Unit, Medical Education Research Division

2019 – present Professor  
University of Louisville  
Louisville, Kentucky

2021- present Associate Division Chief, Pediatric Critical Care Medicine

### OTHER POSITIONS AND EMPLOYMENT

2005 - 2007	Locum Tenens Massachusetts General Hospital Department of Surgery Boston, Massachusetts
2005 - 2007	Locum Tenens Shriners Burns Hospital, Acute Care Unit Boston, Massachusetts
2006 - 2007	Small Group Tutorial Facilitator Patient-Doctor III Course, Harvard Medical School Boston, Massachusetts

## CERTIFICATION AND LICENSURE

1999	USMLE Step 1
2001	USMLE Step 2
2002 - 2021	Pediatric Advanced Life Support Certification American Heart Association <ul style="list-style-type: none"> <li>• Provider, 2002-2014</li> <li>• Instructor 2014-2021</li> </ul>
2003	USMLE Step 3
2004	American Board of Pediatrics, General Pediatrics Certification
2004-2008	Massachusetts State Medical License #220517
2005	American Board of Pediatrics, Pediatric Critical Care Subspecialty Certification
2007 - present	Commonwealth of Kentucky State Medical License #41278

## PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

1997 - 2015	American Medical Association
2001 - present	Christian Medical and Dental Association
2001 - present	American Academy of Pediatrics <ul style="list-style-type: none"> <li>• Member 2001-2008</li> <li>• Fellow 2009-present</li> </ul>
2004 - present	Society of Critical Care Medicine
2005 - 2015	American Academy on Communication in Healthcare
2008 - present	Society for Simulation in Healthcare
2011 - 2015	Society for Pediatric Sedation
2014 - present	International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE)
2011 - present	Society for Pediatric Research
2016 - present	Society for Simulation in Healthcare Academy
2024 - present	American Pediatric Society

## HONORS AND AWARDS

1997 - present	Member: Phi Beta Kappa Society
2003	A. Todd Davis Outstanding Resident Award Children's Memorial Hospital Chicago, Illinois
2003	Third Year Resident Teaching Award Children's Memorial Hospital Chicago, Illinois
2008	Norton Hospital Celebrating Better Care Award <ul style="list-style-type: none"> <li>• February 12, 2008</li> </ul>

- November 20, 2008

2010	Research Abstract Award in Impact of Simulation Context and Physical Setting (Honorable Mention) - Complete Integration of a Simulation Center into Active Intensive Care Workspace: A Feasibility Study - 2010 International Meeting on Simulation in Healthcare.
2010	Top Poster Award - Integration of a Simulation Center into a Pediatric Intensive Care Unit – 2010 NACHRI Leadership Conference
2011	Department of Pediatrics Faculty Peer Clinician-Teacher Excellence Award for Junior Faculty-March 2011
2011	Paul Weber Award for Departmental Excellence in Teaching
2011	Outstanding Division Award, Division of Critical Care, Department of Pediatrics, University of Louisville: <i>For consistent excellence in patient care and resident teaching.</i>
2011	Top 2 Teaching Division of the Year. <i>In Honor of the Excellence in Clinical Teaching, Lecturing and Instruction.</i> Division of Pediatric Critical Care, Department of Pediatrics. From the house staff of the University of Louisville for the academic year 2010-2011
2011	Elected to the Society for Pediatric Research
2012	Department of Pediatrics Faculty Peer Clinician-Teacher Excellence Award for Junior Faculty-March 2012
2012	Top 2 Teaching Division of the Year. <i>In Honor of the Excellence in Clinical Teaching, Lecturing and Instruction.</i> Division of Pediatric Critical Care, Department of Pediatrics. From the house staff of the University of Louisville for the academic year 2011-2012
2013	Department of Pediatrics Faculty Peer Clinician-Teacher Excellence Award for Mid-career Faculty-March 2013
2013	Kentucky Medical Association Educational Achievement Award
2013	Kosair Children's Hospital Physician of the Quarter Award
2013	Second Place Poster, Ruth Greenberg Award for Medical Education, Research Louisville 2013, Burns CM, Boland KA, Cross KP, <b>Calhoun AW</b> . A Structured Curriculum Significantly Enhances Procedural Performance in Pediatrics.
2013	Outstanding Division Award, Division of Critical Care, Department of Pediatrics, University of Louisville: <i>For consistent excellence in patient care and resident teaching.</i>
2013	Top 2 Teaching Division of the Year. <i>In Honor of the Excellence in Clinical Teaching, Lecturing and Instruction.</i> Division of Pediatric Critical Care, Department of Pediatrics. From the house staff of the University of Louisville for the academic year 2012-2013
2014	Commendation of Distinguished Services, SSH Research Committee and IMSH Scientific Contents Committee, 2014 Annual International Meeting on Simulation in Healthcare.
2014	Department of Pediatrics Faculty Peer Clinician-Teacher Excellence Award for Established Faculty-April 2014
2015	Third place research abstract award – When the Mannequin Dies, Creation and Exploration of a Theoretical Framework Using a Mixed Methods Approach – Presented at the International Meeting on Simulation in Healthcare, Jan 2015
2015	Kosair Children's Hospital Doctor's Day Awards

- Outstanding Male Physician 2014
- Best Educator
- Best Communicator

- 2015 Top 20 Clinical Teacher of the Year Award, 2014-2015, *For Impact as Attending, Lecturer, Mentor and Role Model*. Awarded by all Pediatrics Residents, University of Louisville School of Medicine (selected from among 200+ faculty)
- 2015 Department of Pediatrics Faculty Peer Clinician-Teacher Excellence Award for Established Faculty- April 2015
- 2016 Research Snapshot Award - Use of TEG to Direct Heparin Management in Neonatal and Pediatric ECMO Patients - Presented at the Society of Critical Care Medicine's Critical Care Congress, February 2016.
- 2016 Kosair Children's Hospital Doctor's Day Awards
- Best Bedside Manner
- 2016 Department of Pediatrics Faculty Peer Clinician-Teacher Excellence Award for Established Faculty- April 2016
- 2016 2016 Dean's Outstanding Educator Award
- 2016 Awarded Fellow status in the Society for Simulation in Healthcare Academy (FSSH)
- 2017 Norton Children's Hospital Doctor's Day Awards
- Best Educator
- 2017 Department of Pediatrics Outstanding Peer Mentor Award-April 2017
- 2017 3<sup>rd</sup> place, Greenberg Award for Medical Education Research – presented at Research! Louisville, September 2017.
- 2018 Society for Simulation in Healthcare Presidential Citation – January 2018
- 2018 Pediatrics Outstanding Performance Award – February 2018
- 2018 Norton Children's Hospital Doctor's Day Awards
- Most Remarkable Male Physician
- 2019 Society for Simulation in Healthcare Award for Service and Dedication
- 2019 Norton Children's Hospital Doctor's Day Awards
- Best Educator
- 2019 Top Five Teaching Faculty of the Year, Academic Year 2018-2019
- 2021 Norton Children's Hospital Doctor's Day Awards
- Best Attitude
- 2021 Department of Pediatrics Outstanding Peer Mentor Award - April 2021
- 2021 Department of Pediatrics Faculty Peer Clinician -Teacher Excellence Award for Established Faculty - April 2021
- 2021 Clinical Simulation in Nursing Research Article of the Year Award – “Exploring the Boundaries of

Deception in Simulation: A Mixed-Methods Study”

- 2021 Top Ten Teaching Faculty of the Year, Academic Year 2020-2021
- 2022 Norton Children’s Hospital Doctor’s Day Awards
  - Best Educator
- 2023 Society for Simulation in Healthcare Articles of Influence Award: Current Research Priorities in Healthcare Simulation: Results of a Delphi Survey. Simulation in Healthcare.
- 2023 Society for Simulation in Healthcare Board of Directors Service Award
- 2023 Society for Simulation in Healthcare Research Summit Lead and Co-lead Service Award
- 2023 Norton Children’s Hospital Doctor’s Day Awards
  - Best Educator
- 2023 University of Louisville Career Achievement in Education Award
- 2024 Awarded Membership in the American Pediatric Society
- 2024 2024 International Meeting on Simulation in Healthcare Articles of Influence: From Concept to Publication: Effectiveness of the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) Project Development Process at Generating Simulation Scholarship.

**COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES**

**Local/Regional Committees**

- 2007 – 2010 Critical Care Quarterly Committee
- 2007 - 2015 Kosair Children’s Hospital Ethics Committee
- 2008 - 2015 Norton Children’s Hospital Code 300 Committee
- 2009 - 2010 WHAS Crusade for Children Kosair Children’s Hospital Grant Review Committee
- 2009 - 2011 Scholarship Oversight Committee: Eleanor Peterson, MD
- 2009 - 2015 Critical Care Clinical Practice Team
- 2009 - 2015 Division of Critical Care Research Facilitation Committee
- 2009 - present University of Louisville Pediatrics Residency Comprehensive Communication Skills Curriculum Development Committee
  - 2009 - 2011, Committee Co-Chairman
  - 2011 - present, Committee Senior Advisor
- 2010 - present Department of Pediatrics Research Committee/PIRATs Committee
- 2011 -2013 Louisville Simulation Consortium Development Committee
  - 2011 - present, Committee Co-Chairman
- 2012 - present University of Louisville Pediatrics Residency Procedural Medicine Curriculum Development Committee Member.
- 2012 - present Medical Education Core Faculty Group
- 2014 - present Pediatric Residency Annual Program Evaluation and Recruitment Committee
- 2015 – present Department of Pediatrics Faculty Development Committee
- 2015 – 2018 Critical Care Advisory Committee
- 2015 – 2017 Medical Education Innovations Working Group
  - 2016 – present, Group Director
- 2018 – 2019 Department of Pediatrics Clinician-Scholar Planning Committee

**National/International Committees**

2011 - 2023	<p>Society for Simulation in Healthcare Research Committee</p> <ul style="list-style-type: none"> <li>• 2013 – 2014, Chair, Task Force on Research Integration</li> <li>• 2015 – 2016, Chair, Conference Subcommittee</li> <li>• 2016 – 2017, Committee Co-Chair</li> <li>• 2017 – 2019, Committee Chair</li> <li>• 2019 – 2023, Committee Liaison</li> </ul>
2011 - 2015	<p>Society for Pediatric Sedation Procedural Sedation Course Committee</p> <ul style="list-style-type: none"> <li>• 2012 – 2015, Committee Co-Chairman</li> </ul>
2012 - 2014	INSPIRE (International Network for Simulation-based Pediatric Innovation, Research, and Education) Assessment Tool Working Group
2013 - 2014	Society for Critical Care Medicine, Pediatric Section, Resident Education and Recruitment Committee
2013	International Meeting on Simulation in Healthcare 2014 Scientific Contents Committee
	<ul style="list-style-type: none"> <li>• Section Chair-Research Abstract Review Task Force</li> </ul>
2014	International Meeting on Simulation in Healthcare 2015 Scientific Contents Committee
	<ul style="list-style-type: none"> <li>• Chairman-Research Abstract Track</li> </ul>
2015	International Meeting on Simulation in Healthcare 2016 Scientific Contents Committee
	<ul style="list-style-type: none"> <li>• Chairman-Research Abstract Track</li> </ul>
2016	International Meeting on Simulation in Healthcare 2017 Scientific Contents Committee
	<ul style="list-style-type: none"> <li>• Scientific Chair</li> </ul>
2014 - present	International Simulation Data Registry
	<ul style="list-style-type: none"> <li>• 2014-2016, Committee Co-Chairman</li> <li>• 2017-2019, Executive Committee Member</li> <li>• 2019 – Present, Committee Advisor</li> </ul>
2015 - present	Editorial Board Member - Simulation in Healthcare
2017 - present	Associate Editor – Simulation in Healthcare
2022 – present	Associate Editor-in-Chief – Simulation in Healthcare
2015 - 2019	INSPIRE (International Network for Simulation-based Pediatric Innovation, Research, and Education) – Scientific Review Committee
	<ul style="list-style-type: none"> <li>• Member</li> <li>• 2017 – 2019, Co-Chair</li> </ul>
2015 - 2018	American Heart Association Get With The Guidelines (GWTG) Pediatric Research Task Force appointment
2016 - 2020	Society for Simulation in Healthcare Nominations Committee
	<ul style="list-style-type: none"> <li>• 2016 – Member</li> <li>• 2018 – Member</li> <li>• 2020 – Member</li> </ul>
2016	Society for Simulation in Healthcare Research Summit Planning Committee
2017 - present	INSPIRE (International Network for Simulation-based Pediatric Innovation, Research, and Education)
	<ul style="list-style-type: none"> <li>• 2017-2019, Executive Committee</li> <li>• 2019-2022, Network Co-chair</li> <li>• 2022-2023, Executive Committee</li> </ul>
2017 - present	Society for Simulation in Healthcare Fellows Academy
	<ul style="list-style-type: none"> <li>• 2017-2019, Chair, Scholarship Working Group</li> </ul>
2018 – 2020	Society for Simulation in Healthcare IMSH Future Vision Task Force
2018	Society for Simulation in Healthcare Nominations Committee
2018	Pediatric Cardiac Intensive Care Society (PCICS) APP Curriculum Committee
	<ul style="list-style-type: none"> <li>• Committee Member and Course Co-Editor</li> </ul>
2018 - 2019	International Pediatric Simulation Society (IPSS) World Conference Planning Committee
2019 – 2023	Society for Simulation in Healthcare Board of Directors
2020	Meeting Organizing Committee – Inaugural Healthcare Distance Simulation Summit
2020	Member- NIH Grant Expert Panel for “Virtual Reality Pandemic Preparedness Life Support (VR-PPLS) Curriculum with Artificial Intelligence-Based Coaching” – Dr. Utpal Bhalala, PI.
2021 – 2023	Society for Simulation in Healthcare 2023 Research Summit Planning Committee
	<ul style="list-style-type: none"> <li>• Consensus Group Co-lead: In-situ Simulation.</li> </ul>
2020 – present	Healthcare Distance Simulation Collaborative

- 2020 – present, Co-lead, Psychological Safety Research Working Group.
- 2020-2021, Summit Planning Committee
- 2022 – present, Strategic Development Subcommittee Member

### Peer Reviewer of Manuscripts

2006 - 2012	Medical Education
2008 - 2012	Annals of Pharmacotherapy
2008 - present	Simulation in Healthcare <ul style="list-style-type: none"> <li>• 2010 Top ten reviewer award</li> <li>• 2011 Top ten reviewer award</li> <li>• 2012 Top ten reviewer award</li> <li>• 2013 Top ten reviewer award</li> </ul>
2010 - 2012	Journal of Healthcare Engineering
2010 - present	Journal of Graduate Medical Education <ul style="list-style-type: none"> <li>• 2014 Top 10% of reviewers</li> </ul>
2012	Journal of the Pediatric Infectious Diseases Society
2019	American Heart Association Education/Implementation Reviewer - Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care and International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations.

### EDUCATIONAL ACTIVITIES

#### Teaching – Undergraduate/Graduate Students

2012 - present	Pre-medical Student/Medical Student Clinical Shadowing – multiple students per year.
2012 - present	Simulation/Research Shadowing Mentor
2012	PhD Thesis Advisory Committee-Shuangshuang Jiang, J.B. Speed School of Engineering
2020	Doctoral Dissertation Committee – Lisa Paganotti, George Washington University

#### Teaching – Medical Students

2007 - present	1 <sup>st</sup> year medical student clinical preceptorship – multiple students per year
2007 - 2016	Integrated Clinical Cases/Introduction to Clinical Medicine Preceptor University of Louisville School of Medicine
2007 - 2014	Paris Simulation Center 3 <sup>rd</sup> Year Pediatrics Clerkship Guest Instructor
2007 - 2009	First Year Anatomy Class guest instructor – Neck/Airway.
2007 - present	4 <sup>th</sup> year medical student elective in Critical Care Norton Children’s Hospital ICU
2007 - 2015	Introduction to Clinical Medicine-Ethics Preceptor University of Louisville School of Medicine
2010 - 2011	Expert Reviewer, High Stakes Third Year Medical Student Standardized Patient Examination. Case- Meningococemia, University of Louisville School of Medicine <ul style="list-style-type: none"> <li>• February 2010</li> <li>• March 2011</li> </ul>
2012 - present	Faculty, Practical Pediatrics Elective Simulation-based Training Sessions
2012 - 2020	Faculty/Small Group Mentor, Religion in Medicine Course <ul style="list-style-type: none"> <li>• 2013-2020, Core Course Faculty</li> </ul>
2014 - 2016	CADE course small group mentor University of Louisville School of Medicine

#### Teaching – Other students

2008 - 2012	Clinical ethics student preceptorship.
2012 - 2014	Simulation Educator- University of Louisville PEPP Program
2014	Simulation Educator- University of Kentucky Medicine Interest Group Student Program
2014 - 2016	Simulation Educator- Whitney-Young Scholar Program, Lincoln Foundation

2018 – present Faculty- University of Louisville Summer Health Professions Education (SHPEP) Program

### Teaching – Nurses

2007 - present Beyond the Basics Simulation Training  
Norton Children's Hospital ICU Nurses

2007 - present Nurse Practitioner Education  
Norton Children's Hospital ICU

2007 - present Hi Tech Critical Care Nurse Training  
Norton Children's Hospital ICU

- Acute Lung Injury/ARDS
- Basic Management of Shock States
- Management of Refractory Shock

2008 - 2009 Kosair Children's Hospital Critical Care Center Crisis Teamwork Debriefing Program

- Nov 2008, Program Development
- Dec 2008, Program Implementation

2008 - present SPARC Simulation Program Critical Care and Communication Skills Faculty.

### Teaching – Residents and Fellows

2007 - present Resident Mock Code Simulation Sessions  
Department of Pediatrics Residents

2007 - present Resident Morning Report

2007 - present Discussion Leader, Resident Morning Report, Multiple times per year

2007 - present Division of Pediatric Critical Care Fellow Conferences, Multiple topics and presentations per year

2007 - present Department of Pediatrics Residents, Physiology and Diagnosis of Shock States

- December 3, 2007
- October 7, 2008
- June 16, 2010

2008 - present Norton Children's Hospital Critical Care Center Crisis Resource Management Simulation Program

2008 - 2011 Research Mentor (Scholarship Oversight Committee), Eleanor Peterson, MD

- 1<sup>st</sup> place-Original Research, Fellow Scholarly Activity Award, June 2011

2009 - 2020 Norton Children's Hospital Program for the Approach to Complex Encounters (PACE), program faculty and mentor.

2009 - present University of Louisville Department of Pediatrics Grand Rounds

- August 7, 2009- "Leadership and Teamwork During Pediatric Medical Crises"
- February 26, 2016 – "When Ethics and Medical Education Collide: Death, Deception, and Difficult Conversations in Simulation"
- November 20, 2020 – "Simulation in the Era of COVID-19".
- January 20, 2023 – "In Situ Simulation- The State of the Literature"

2010 - 2020 Faculty- University of Louisville Pediatrics Residency Comprehensive Communication Skills Curriculum

2011 - 2013 Research Mentor/Scholarship Oversight Committee Member, Ingrid Anderson, MD, Division of Critical Care, Department of Pediatrics, Case Western Reserve University.

2012 – 2013 Research Mentor /Scholarship Oversight Committee Member, Candice Burns, MD, Fellow, Division of Critical Care, Department of Pediatrics, University of Louisville

2013 – 2014 Research Mentor for Senior Project, Shreepada Tripathy, MD, Resident, Department of Pediatrics, University of Louisville

2013 – 2014 Research Mentor for Senior Project, Tracy Wagner, MD, Resident, Department of Pediatrics, University of Louisville

2016 – 2017 Research Mentor/Scholarship Oversight Committee Member, Joshua Henry, MD, Fellow, Division of Critical Care, Department of Pediatrics, University of Louisville

2017 – 2019 Research Mentor/Scholarship Oversight Committee Member, Susan Martin, MD, Fellow, Division of Critical Care, Department of Pediatrics, University of Louisville

2018 – 2019 Research Mentor/Scholarship Oversight Committee Member, Christina Tryon, MD, Fellow, Division of Critical Care, Department of Pediatrics, University of Louisville

2018 – 2019	Research Mentor/Scholarship Oversight Committee Member, Shiva Zargham, MD, Fellow, Division of Pediatric Emergency Medicine, Department of Pediatrics, University of Louisville
2019 – 2021	Research Mentor/Scholarship Oversight Committee Member, Kelly Lyons, MD, Fellow, Division of Pediatric Critical Care, Department of Pediatrics, University of Louisville
2019 – 2021	Research Mentor/Scholarship Oversight Committee Member, Sara Greer, Division of Critical Care, Department of Pediatrics, Washington University of St. Louis.
2019 – 2021	Research Mentor/ Scholarship Oversight Committee Member, Shanna Barton, MD, Fellow, Division of Pediatric Infectious Diseases, Department of Pediatrics, University of Louisville
2020 - 2022	Research Mentor/ Scholarship Oversight Committee Member, Dominique Elmore, MD, Fellow, Division of Pediatric Infectious Diseases, Department of Pediatrics, University of Louisville
2023 - 2025	Research Mentor/ Scholarship Oversight Committee Member, Sara Grout, MD, Fellow, Division of Pediatric Infectious Diseases, Department of Pediatrics, University of Louisville
2023 - 2025	Research Mentor/ Scholarship Oversight Committee Member, Michelle Bresler, MD, Fellow, Division of Pediatric Infectious Diseases, Department of Pediatrics, University of Louisville
2023 - 2025	Research Mentor/ Scholarship Oversight Committee Member, Naomi Warnick, MD, Fellow, Division of Pediatric Infectious Diseases, Department of Pediatrics, University of Louisville
2020	Lecture to Neonatology Residents – The Importance of Simulation in Pediatric Patient Care, An Overview – March 2020

**Teaching – Pharmacy Residents**

2008 - present	Norton Children’s Hospital Critical Care Center Crisis Resource Management Simulation Outreach Program
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**Teaching – Faculty**

2008 – present	Norton Children’s Hospital Division of Pediatric Critical Care Faculty Education Conference <ul style="list-style-type: none"> <li>• SPARC Updates and Developments, February 2014</li> <li>• Validity and Reliability for the PICU, May 2018</li> <li>• CPR Coaches, A New Addition to the Code Team, May 2019</li> <li>• Immunology for the Intensivist, May 2020</li> <li>• Ticks and Tick-Borne Illnesses – A Refresher, June 2021</li> </ul>
2008 - present	Norton Children’s Hospital Critical Care Center Crisis Teamwork Debriefing Program
2008 - present	University of Louisville Department of Pediatrics Research Luncheon <ul style="list-style-type: none"> <li>• High-Fidelity Patient Simulation for Teaching and Educational Research, December 8, 2008</li> <li>• A Study of the Relationship Between Time Spent Delivering Care and Task Performance in a Pediatric Intensive Care Unit, November 10, 2009</li> <li>• Transforming Education into Research: Growth of an In-situ Simulation Program, June 13, 2011</li> <li>• Five Years of SPARC: Progress, Outcomes, and Future Directions, January 14, 2013</li> <li>• When the Mannequin Dies: Creation and Exploration of a Theoretical Framework Using a Mixed Methods Approach, June 9, 2014</li> <li>• The International Simulation Data Registry: Gathering and Standardizing our Data, March 14, 2016</li> </ul>
2009 - present	International Conference on Communication in Healthcare Senior Mentor “Pairing with Colleagues Program” <ul style="list-style-type: none"> <li>• Patricia Connolly-2009</li> </ul>
2009 - present	University of Louisville Department of Pediatrics Grand Rounds <ul style="list-style-type: none"> <li>• August 7, 2009- “Leadership and Teamwork During Pediatric Medical Crises</li> <li>• February 26, 2016 – “When Ethics and Medical Education Collide: Death, Deception, and Difficult Conversations in Simulation”</li> <li>• November 20<sup>th</sup>, 2020 - Simulation in the Era of COVID-19</li> </ul>

- 2014 - present
  - January 27<sup>th</sup>, 2023 - In-situ Simulation: The State of the Literature University of Louisville Faculty Development Seminars
  - “Funding and Publishing Educational Research,” March 28, 2014
  - “Medical Education Research,” October 26, 2016
- 2018 - 2019
  - University of Louisville Department of Pediatrics Clinician-Scholars Program
  - Getting Behind the Question – December 2018
  - A Primer on Medical Education Research: How To (and How Not To) Succeed – April 2019
- 2020 – present
  - PIRATs ScholarSHIP Research Conference
  - Conducting Research and Scholarly Activity in the Era of COVID-19: Panel Member, March 2021
  - Investigator Questions: Writing Questions and Choosing Methods, November 2020
  - Survey Design: Co-presenter, July 2021
  - Conducting Multisite Studies: Co-presenter, November 2021
  - How to Go from Research Idea to Specific Aims Page, June 2022
  - Medicine Education Research: A Beginner’s Guide, February 2023

**Teaching – Invited Lectureships**

- 2009 - 2011
  - Guest Lecturer on the Uses of Simulation and Standardized Patients in Medical Education, Course on College Teaching for Healthcare Professionals, University of Louisville School of Education,
  - October 1, 2009
  - September 22, 2011
- 2010 - 2015
  - Course Faculty for the International Multidisciplinary Society for Pediatric Sedation Conference, Procedural Sedation Course
  - Simulation Educator, May 23, 2010- Louisville, KY
  - Simulation Coordinator/Educator, May 19, 2012- Cleveland, OH
  - Lecturer and Simulation Coordinator/Educator, March 10, 2013- Minneapolis, Minn.
  - Simulation Coordinator/Educator, May 19, 2013- Houston, TX
  - Lecturer and Simulation Coordinator/Educator, July 31, 2013- New Orleans, La.
  - Simulation Coordinator/Educator, May 17, 2014- Charleston, SC.
  - Simulation Coordinator/Educator, August 22-23, 2014- Salt Lake City, Utah
  - Simulation Coordinator/Educator, May 4-5, 2015- Grand Rapids, Michigan
  - Simulation Coordinator/Educator, May 20, 2015- St. Louis, Missouri
- 2010
  - University of Kentucky Department of Pediatrics Grand Rounds
  - September 30, 2010- “Leadership and Teamwork During Pediatric Medical Crises”
- 2011
  - Faculty for the 11<sup>th</sup> International Meeting on Simulation in Healthcare, Update on Tools for Simulation Evaluation, Expert Panel, Presented on January 24, 2011
- 2011
  - Guest Lecturer for the Norton Pediatric Ethics Symposium, Norton Hospital
  - March 1, 2011- “Approaching Parents of Potential Organ Donors”
- 2011
  - Faculty for the Center for Simulation and Research September 2011 Conference: Creating a Culture of Change
  - Workshop Leader - Making Your Learning Points Stick With Written and Graphical Feedback
  - Workshop Leader – Multi-rater Feedback and Gap Analysis: Assessing Simulated Crises
  - Lecture Presentation- Doing More With Less: Strategies to Overcome Resource Constraints
- 2011
  - Ohio State University Department of Pediatrics Grand Rounds
  - September 29, 2011- “Using Mobile Simulation to Teach Crisis Resource Management”
- 2011
  - Case Western Reserve University Department of Pediatrics Grand Rounds
  - October 20, 2011 – “Beyond the Mock Code: Simulation as a Teaching Methodology”
- 2011
  - Faculty for the 2011 Kentucky Statewide Trauma Symposium
  - Presented November 3, 2011- Trauma Simulation Workshop

- 2012 Faculty for the 12<sup>th</sup> International Meeting on Simulation in Healthcare, Update on Assessment Tools for Simulation Evaluation, Sessions 1 and 2, Expert Panel, Presented January 30, 2012
- 2012 Faculty for the 32<sup>nd</sup> International CMDA Continuing Medical and Dental Education Conference, Limuru, Kenya.
- February 6, 2012 – Faculty, Pediatric Advanced Life Support Training Course.
  - February 7, 2012 – Faculty, Helping Babies Breathe Training Course
  - February 9-1, 2012 – Workshop Faculty, Mechanical Ventilation for the Non-Intensivist
- 2012 Faculty for the Southern Group on Educational Affairs 2012 Regional Conference
- April 21, 2012- Workshop, Toward a Broader Concept: Teaching Interpersonal and Communication Skills in Medical Education.
- 2012 Faculty for the 7<sup>th</sup> International Multidisciplinary Society for Pediatric Sedation Conference
- May 21, 2012 – Participant, “Stump the Attending” Expert Panel
  - May 22, 2012 – Plenary Lecture, Optimizing Learning Experiences in Procedural Sedation.
- 2012 Faculty for the IPSS/INSPIRE Pediatric Simulation Research Webinar Series
- June 20, 2012 – Demystifying Psychometrics: Assessment Tool Creation and Validation 101.
- 2013 Faculty for the 13<sup>th</sup> International Meeting on Simulation in Healthcare
- January 28, 2013 - Workshop Leader – Using Multi-rater Feedback and Gap Analysis to Assess Participant Self-appraisal and Generate Feedback During Simulated Crises.
  - January 29, 2013 - Expert Panel Moderator – Assessment Methodologies in Simulation: A Conceptual Introduction and Update on Newly Validated Tools.
  - January 28, 2013 - Podium Presentation – Doing More with Less: How to Use In-situ Simulation and Innovative Faculty Staffing Models to Develop Low-cost Hospital-based Simulation Programs.
  - January 29, 2013 - Workshop Faculty – Understanding Generalizability Theory Data – How to Read and Understand Data Arising From the Use of this Useful Psychometric Method Without Needing a PhD in Psychometrics.
- 2013 Faculty for the 2013 Delphi Center Celebration of Teaching and Learning, Concurrent session presenter: Learner-Centered Teaching and the Post-Graduate Learning Environment: Using Simulation to Keep Knowledge Alive. Presented February 8, 2013
- 2013 Faculty for the 2013 Annual University of Louisville Annual Statewide AHEC Meeting.
- Podium Presentation – Pediatric Simulation with an Interprofessional Outreach Approach. March 18, 2013
- 2013 Faculty for the 8<sup>th</sup> International Multidisciplinary Society for Pediatric Sedation Conference
- Workshop Leader – Developing and Conducting Sedation-Based Simulations: A Hands-on Workshop. May 21, 2013
- 2013 Faculty for the 2013 Kentucky Statewide Trauma Symposium
- September 11, 2013- Trauma Simulation Workshop
- 2014 Faculty for the 14<sup>th</sup> International Meeting on Simulation in Healthcare
- Course Director – Using Multi-rater Feedback and Gap Analysis to Assess Participant Self-appraisal and Generate Feedback During Simulated Crises – Jan 28, 2014
  - Course Director – Assessment Methodologies in Simulation: A Conceptual Introduction and Update on Newly Validated Tools – Jan 28, 2014 **Note:** Subsequently accepted as an ongoing online learning module by the Society for Simulation in Healthcare
  - Course Director – Debating the Ethics of Simulation: Is the Use of Death and Deception Appropriate? –Jan 27, 2014
  - Workshop Faculty – Understanding Generalizability Theory: How to Read and Understand Data Arising from the Use of Useful Measurement Method Without Needing a PhD in Psychometrics – Jan 27, 2014
  - Professor – IMSH Professor Rounds Program– Jan 28, 2014

- Workshop Faculty, Using Mobile In-situ Simulation as an Outreach Strategy for Community Based Providers: Approaches to Curriculum Development and Implementation –Jan 29, 2014
- 2014 Faculty for the 34<sup>th</sup> International CMDA Continuing Medical and Dental Education Conference, Eritrea, Greece.
- April 28, 2014 – Faculty, Pediatric Advanced Life Support Training Course.
- 2014 Course Co-director and faculty for the Summer 2014 Laerdal Louisville Mini-Simulation User Network Conference, June 6, 2014.
- 2015 Faculty for the 15<sup>th</sup> International Meeting on Simulation in Healthcare
- Course Director – Using Multi-rater Feedback and Gap Analysis to Assess Participant Self-appraisal and Generate Feedback During Simulated Crises – Jan 2015
  - Course Director – Empowering Simulation Centers: Readyng Your Program to Enter the Research Arena –Jan 2015
  - Course Director – Assessment Methodologies in Simulation: A Conceptual Introduction and Update on Newly Validated Tools - Jan 2015
  - Workshop Faculty – Understanding Generalizability Theory: How to Read and Understand Data Arising from the Use of Useful Measurement Method Without Needing a PhD in Psychometrics – Jan 2015
  - Professor – IMSH Professor Rounds Program – Jan 2015
  - Moderator – IMSH Research Abstract Awards Presentations – Jan 2015
- 2015 Faculty for the March 2015 Galen College of Nursing Simulator User’s Network Conference
- Keynote Speaker – In-situ Simulation as it Relates to Pediatrics/Ethical Questions in Simulation – March 25, 2015
- 2015 Faculty for the Academy for Professionalism in Healthcare 3<sup>rd</sup> Annual Conference
- Panelist – Christianity, Islam and Medical Practice: Encouraging Physician Integrity
- 2016 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) January Meeting
- ALERT Presentation Mentor
- 2016 Faculty for the 16<sup>th</sup> International Meeting on Simulation in Healthcare
- Workshop Faculty – Using Multi-rater Feedback and Gap Analysis to Assess Participant Self-appraisal and Generate Feedback During Simulated Crises – Jan 19, 2016
  - Course Director – The International Simulation Data Registry Project: The Power of Gathering and Standardizing our Data –Jan 18, 2016
  - Course Director – Assessment Methodologies in Simulation: The Intersection of Validation, Simulation, and Accreditation – Jan 18, 2016
  - Workshop Faculty – Understanding Generalizability Theory: How to Read and Understand Data Arising from the Use of Useful Measurement Method Without Needing a PhD in Psychometrics –Jan 18, 2016
  - Moderator – IMSH Research Abstract Awards Presentations – Jan 18, 2016
- 2016 Faculty for the 36<sup>th</sup> International CMDA Continuing Medical and Dental Education Conference, Paralia Marathonos, Greece.
- Director, Pediatric Advanced Life Support Training Course – Presented April 4, 2016.
  - Faculty, Shock Symposium: Management Strategies Around the World – Presented April 7, 2016
  - Faculty, Physiology of Sepsis Breakout Session – Presented April 7, 2016
- 2016 Faculty for the Society for Simulation in Healthcare Rater Training Webinar
- June 6, 2016 – IMSH Reviewer Updates and Training.
- 2016 Faculty for the Community Hospital Simulation User Conference
- “Hospital-based Pediatric In-situ Simulation,” Presented October 21, 2016
- 2017 Faculty for the 2<sup>nd</sup> Society for Simulation in Healthcare Research Summit
- Invited Panelist, Establishment of Collaborative Networks – Presented January 28<sup>th</sup>, 2017
- 2017 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) January Meeting

- 2017 Faculty for the 17<sup>th</sup> International Meeting on Simulation in Healthcare
  - ALERT Presentation Mentor
  - Workshop Faculty – Using Multi-rater Feedback and Gap Analysis to Assess Participant Self-appraisal and Generate Feedback During Simulated Crises – Presented Feb 1, 2017
  - Course Director – Assessment Methodologies in Simulation: The Intersection of Validation, Simulation, and Accreditation – Presented Jan 30, 2017
  - Workshop Faculty – Understanding Generalizability Theory: How to Read and Understand Data Arising from the Use of Useful Measurement Method Without Needing a PhD in Psychometrics – Presented Jan 31, 2017
  - Workshop Faculty – Report a Simulation-based Research Study – Presented Jan 31, 2017
  - Workshop Faculty – Simulation in Healthcare Workshop for Reviewers – Presented Feb 1, 2017
  - Moderator – IMSH Research Abstract Awards Presentations – Presented Jan 29, 2017
- 2017 Faculty for the 1<sup>st</sup> American Heart Association Education Summit
  - Invited panelist, Assessment and Resuscitation Education –February 27<sup>th</sup>-28<sup>th</sup>, 2017
- 2017 Invited Faculty and Keynote Speaker for the Lindsey Wilson College Simulation Symposium
  - Keynote Address- “The Art of the Crisis: Using Simulation to Address Crisis Resource Management” – Presented March 8, 2017
  - Workshop Director-“Teaching Acute Care Using Simulation” –Presented March 8, 2017
- 2017 Invited Keynote Speaker for the 10<sup>th</sup> Annual Simulation Symposium, Center for Immersive and Simulation-based Learning, Stanford, California –Presented May 22, 2017
  - Keynote Address- “The Intersection of Ethics, Education, and Simulation: Exploring Difficult Issues” – Presented May 22, 2017
  - Workshop Director-“Developing a Career in Simulation Research: Strategies for Young Investigators” – Presented May 22, 2017
- 2017 ScholarRx Webinar Guest Lecturer- The Role of Medical Simulation in Medical Education – Presented November 15, 2017
- 2018 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) January Meeting
  - ALERT Presentation Mentor
- 2018 Faculty for the 18<sup>th</sup> International Meeting on Simulation in Healthcare
  - Workshop Faculty – Using Multi-rater Feedback and Gap Analysis to Assess Participant Self-appraisal and Generate Feedback During Simulated Crises – Presented January, 2018
  - Course Director – Assessment Methodologies in Simulation: A Conceptual Introduction and Update on Newly Developed Tools – Presented January, 2018
  - Course Director – Meet the Fellows of the SSH Academy: A Presentation and Discussion of Current Work- Sessions 1 and 2 – Presented January, 2018
  - Workshop Faculty – Simulation in Healthcare Workshop for Reviewers – Presented January, 2018
  - Course Director – Developing a Career in Simulation Research: Strategies for Young Investigators – Presented January, 2018.
  - Preconference Course Faculty – Writing Better Manuscripts – Presented January, 2018.
- 2018 Faculty for the 38<sup>th</sup> International CMDA Continuing Medical and Dental Education Conference, Paralia Marathonos, Greece.
  - Director, Pediatric Advanced Life Support Training Course – Presented March 19, 2018.
- 2018 Faculty for the Kentucky Ambulance Provider’s Association Kentucky EMS Conference and Expo
  - Speaker, Diabetic Ketoacidosis: Believe it or Not, It’s Not All About the Sugar. – Presented September, 2018.
- 2018 University of Tennessee at Chattanooga Department of Pediatrics Grand Rounds
  - Pediatric Hospital-based Simulation: An Overview

- 2019 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) January Meeting
- ALERT Presentation Mentor
- 2019 Faculty for the 19<sup>th</sup> International Meeting on Simulation in Healthcare
- Workshop Faculty – SSH Academy Speed Mentoring Lunch - Presented January, 2019
  - Course Director – Update on Assessment Methodologies: Strategies for Evaluating the Simulated Environment – Presented January, 2019
  - Course Director – Developing a Career in Simulation Research: Strategies for Young Investigators – Presented January, 2019
  - Workshop Faculty – Turning Your Research Into a Publishable Manuscript – Presented January, 2019
  - Course Director – Using METRICS to Categorize Simulation Scholarship – Presented January, 2019
- 2019 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) May Meeting
- ALERT Presentation Mentor
- 2019 Invited Faculty for the 11<sup>th</sup> International Pediatric Simulation Society Symposia and Workshops
- Plenary Panel – Deception, Misdirection, and Sabotage in Simulation: The Ethics and the Evidence, presented May 21, 2019
- 2019 Invited Faculty for the Fall 2019 American Heart Association Emergency Cardiovascular Care Conference
- Plenary Speaker – Linkage of Real Resuscitation Events With Simulated events, presented October 18, 2019
- 2019 Invited Faculty for the International Pediatric Simulation Society Webinar
- Submitting Conference Abstracts: Strategies for Success, presented October 30, 2019
- 2020 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) January Meeting
- ALERT Presentation Mentor – presented January 2020
  - Facilitator – Becoming an Effective Research Mentor – presented January 2020
- 2020 Society for Simulation in Healthcare 2020 Virtual Scholars Program – Co-director
- 2020 Faculty for the 19<sup>th</sup> International Meeting on Simulation in Healthcare
- Course Director – Update on Assessment Methodologies: Evaluating Human Factors Skills –presented January, 2020
  - Course Director – Developing a Career in Simulation Research: Strategies for Young Investigators –presented January, 2020
  - Workshop Faculty – SSH Presents: Simulation Scholarship Knowledge Map, presented January, 2020
  - Course Director – Using METRICS to Categorize Simulation Scholarship – presented January, 2020
  - Workshop Faculty – Best Practices in Validity: A Primer for Simulation-Based Assessment – presented January, 2020
  - Workshop Faculty – Multi-rater Feedback and Gap Analysis – presented January, 2020
  - Speaker – Couch Conversation: Simulation Research 101 – presented January, 2020
- 2020 Keynote Speaker for the Modeling and Simulation Congressional Caucus Leadership Summit
- Keynote Address – INSPIRE: Advancing Pediatric Patient Safety Through Simulation Science – presented February 24, 2020
- 2020 Guest Speaker, Simulcast Healthcare Simulation Podcast
- Book Review: Healthcare Simulation Research, A Practical Guide, presented February 26, 2020. <http://simulationpodcast.com/84-book-review-healthcare-simulation-research-a-practical-guide/>
- 2020 Faculty for the 40<sup>th</sup> International CMDA Continuing Medical and Dental Education Conference, Paralia Marathonos, Greece.

- Instructor Pediatric Advanced Life Support Training Course – March 30, 2020 (Note: conference cancelled due to COVID-19 Pandemic).
- 2020 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) April Virtual Meeting, April 20, 2020
- ALERT Presentation Mentor
- 2020 Faculty for the SSH SimSeries: Sim Programs Respond to Covid-19: Keep Moving Your Scholarship Forward, May 27, 2020.
- 2020 Faculty for the Inaugural Healthcare Distance Simulation Summit.
- Facilitator – Small group discussions – August 21, 2020.
- 2020 Faculty for the PediSTARS-India Telesim Webinar
- Panelist – presented September 25<sup>th</sup>, 2020
- 2020 Faculty for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) October Virtual Meeting, October 29, 2020
- Equity and Inclusion in Simulation: A Vision for the Future - Panelist
  - ALERT Presentation Mentor
- 2020 Invited Faculty for the 12<sup>th</sup> International Pediatric Simulation Society Symposia Virtual Meeting
- Facilitator – Research Networking, presented October 26, 2020
- 2020 Faculty for the PediSTARS-India Research Workshop
- Speaker – November 10<sup>th</sup>, 2020.
- 2021 Society for Simulation in Healthcare 2021 Virtual Scholars Program – Co-director
- 2021 Faculty for the 20<sup>th</sup> International Meeting on Simulation in Healthcare
- Virtual Workshop Faculty – SSH Presents: Simulation Scholarship Knowledge Map, presented January, 2021
  - Virtual Course Director – Update on Assessment Methodologies: Evaluating Human Factors Skills –presented January, 2021
  - Virtual Panel Faculty – Best Practices in Validity: A Primer for Simulation-Based Assessment – presented January, 2021
  - Professor – Research Abstract Oral Sessions – presented January, 2021
  - Course Director – SSH Virtual Scholars project presentations – presented January, 2021
- 2021 Faculty for PediSTARS India SIMULUS 6 Conference -Presented April, 2021
- 2021 Simulation and Debriefing Workshop, Western Baptist Hospital – Course Director - presented June 22, 2021.
- 2021 Faculty for the 13<sup>th</sup> International Pediatric Simulation Society Symposia and Workshops
- Workshop - Grant Writing Basics: How to Write a Winning Research Proposal",
- 2021 Keynote Speaker for International Telesimulation in Healthcare Conference – Presented September 23, 2021
- 2021 Speaker – INACSL Webinar- Exploring and Applying the Guidelines for the Responsible Use of Deception in Simulation – Presented October 29, 2021
- 2021 Research Track Co-Director – Second International Healthcare Distance Simulation Summit
- Psychological Safety and Acceptability Track.
- 2022 Faculty for the 21<sup>st</sup> International Meeting on Simulation in Healthcare
- Workshop Faculty – Writing Manuscripts for Journal Publication - presented January 17, 2022
  - Professor – Research Abstract Oral Sessions – presented January 16, 2022
  - Course Director – Developing a Career in Simulation Research: Strategies for Young Investigators – presented January 18, 2022
  - Course Director – SSH Virtual Scholars Project Presentations – presented January 18, 2022
  - Course Director - Validity: A Brief Primer on Simulation-Based Assessment – presented January 17, 2022
- 2022 Faculty for the 51<sup>st</sup> Critical Care Congress
- Online presentation – Using METRICS to Categorize Simulation Research Scholarship in Critical Care Medicine
- 2022 Invited Faculty Presentation – Quinnipiac University

- 2022

  - Best Practices in Validity: A Primer for Simulation-Based Assessment – presented January 21, 2022

Invited Faculty Presentation -Indus Valley Hospital Simulation Workshop
- 2022

  - The Art and Science of Conducting Healthcare Simulation: Key Terms, Educational Concepts, and Career Development Strategies – Presented March 18<sup>th</sup>, 2022.

Invited Faculty Presentation -NIDI Grand Rounds, Norton Healthcare

  - The Art and Science of Conducting Healthcare Simulation – Presented June 8<sup>th</sup>, 2022.
- 2022

Invited Faculty Presentation – Texas Children’s Hospital Simulation Forum

  - Qualitative Research in Simulation: Broadening Your Methodological Toolbox – Presented September 14, 2022
- 2022

Third International Healthcare Distance Simulation Summit

  - Keynote Discussion Expert Panel Member – Presented Oct 21, 2022
  - Research Track Co-Director – Psychological Safety and Acceptability Track – Presented Oct 21, 2022
- 2023

Faculty for the 22<sup>st</sup> International Meeting on Simulation in Healthcare

  - Workshop Faculty – Workshop for Journal Reviewers - presented January 24, 2023
  - Professor – Research Abstract Oral Sessions – presented January 22, 2023
  - Course Director – Developing a Career in Simulation Research: Strategies for Young Investigators – presented January 24, 2023
  - Expert Panel Faculty – Three Questions Research Speed Mentoring Session – Presented January 23, 2023
  - Expert Panel Faculty – Assessment of Cognitive Load in Simulation – Presented January 25, 2023
  - Course Director - Validity: A Brief Primer on Simulation-Based Assessment – presented January 23, 2023
- 2023

Feinberg Academy FAME Scholarship Workshop at Northwestern University

  - Invited Speaker - Qualitative Research in Simulation: Broadening Your Methodological Toolbox -Presented February 15, 2023.
  - Invited Speaker – Concepts for Medical Education Research – A Beginner’s Guide, Presented July 2023
- 2023

Invited Faculty Presentation -NIDI Grand Rounds, Norton Healthcare

  - The Art and Science of Conducting Healthcare Simulation – Presented August 9<sup>th</sup>, 2023.
- 2024

Faculty for the 23<sup>st</sup> International Meeting on Simulation in Healthcare

  - Course Director – Workshop for Journal Reviewers – Presented January 23, 2024
  - Course Director – Developing a Career in Simulation Research: Strategies for Young Investigators – Presented January 22, 2024
  - Workshop Faculty – The SSH Knowledge Map – Presented January 22, 2024
  - Workshop Faculty – The International Simulation Data Registry – Presented January 24, 2024
  - Course Director - Validity: A Brief Primer on Simulation-Based Assessment – Presented January 22, 2024
  - Panel Faculty – The SQUIRE Guidelines Simulation Extension – Presented January 23, 2024.
- 2024

Invited Lecturer – Society for Simulation in Healthcare Virtual Scholars

  - Simulation Research Designs – presented February 14, 2024
- 2024

Faculty – Human Factors and Ergonomics Society International Symposium on Human Factors and Ergonomics in Health Care.

  - Human Factors and Medical Simulation, like peanut butter and jelly, they are just meant to be. To be presented March 25<sup>th</sup>, 2024

- 2024 Plenary Speaker – InterLACE Conference
- Interprofessional Simulation Research: Addressing the Integration of Generative Artificial Intelligence and Healthcare Education – To be presented April 12, 2024

### Teaching – Community Education

- 2011 - present SPARC Community and Prehospital Critical Care Mobile Simulation Program
- 2010 – 2013: Director and Faculty - Multiple offerings at local and regional healthcare organizations
  - 2013 – Present: Advisor and Faculty - Multiple offerings at local and regional healthcare organizations
- 2014 - present SPARC Program Outreach to Middle School and High-School students (multiple times per year).

### Teaching – Educational Consultancies and Partnerships

- 2007 - 2012 Educational Consultant to the Division of Pediatric Critical Care, Children’s Hospital Boston  
Development and Implementation of a 360-Degree Assessment System for Pediatric Critical Care Fellows
- 2011 - 2013 Collaborative Educational Partnership with Bellarmine University School of Nursing  
Facilitation of Pediatric Simulation-based Nursing Student Education Through the Simulation for Pediatric Assessment, Communication, and Resuscitation (SPARC) Program, Kosair Children’s Hospital
- 2011 - 2012 Educational Consultant to the Department of Pediatric Surgery, Children’s Hospital Boston  
Development and Implementation of a 360-Degree Assessment System for Pediatric Surgical Critical Care Fellows

### CLINICAL ACTIVITIES

- 2007 - 2015 Consultant for UCSS Sedation Service at Kosair Children’s Hospital. Includes the supervision Nurse Practitioners performing of procedural sedation of infants, children, and adolescents.
- 2007 - present Attending physician at Norton Children’s Hospital *Just for Kids* Critical Care Center. Patient served are infants, children, and adolescents with varying degrees of critical illness. Duties while on service involve rounding daily on patients with residents and medical students, performing procedures (including central venous line and arterial line placement, intubation, chest tube placement), and serving as medical control for the Just for Kids pediatric transport team.
- 2015 – present Attending physician at Norton Children’s Hospital Transitional Care unit. Patients served are infants, children, and adolescents with resolving critical illness or stable chronic illness requiring critical interventions. Duties while on service involve rounding daily on patient, directing care, and performing needed procedures.

### GRANTS-EDUCATIONAL

1. **Calhoun, A.W.**, Montgomery, V.L. Complete Integration of a Simulation Center into Active Intensive Care Workspace: A Feasibility Study. \$8,000, University of Louisville Department of Pediatrics. (October 2007)-Primary Investigator
2. **Calhoun, A.W.**, Montgomery, V.L. On-Site High-Fidelity Simulation at Kosair Children’s Hospital Critical Care Center. \$126,490, Children’s Hospital Foundation. (October 2007)-Primary Investigator
3. Peterson E, Porter M, Boone M., Wesley G., **Calhoun, A.W.** Program for the Approach to Complex Encounters, A Curriculum Development Proposal. \$5,000, Kosair Charities Community Trust Fund Research Grant. (September 2009-July 2010)-Senior Investigator

4. **Calhoun A**, Porter M, Carter L, Hilbert T, Montgomery V, Orman K. A Proposal to Enhance the Emergency Care of Critically Ill Children Using Simulation Technology. \$18,000, WHAS Crusade for Children. (July 2010-July 2011)-Primary Investigator
5. **Calhoun A**, Porter M, Carter L, Hilbert T, Montgomery V, Orman K. A Proposal to Enhance the Emergency Care of Critically Ill Children Using Simulation Technology. \$8,000 University of Louisville Department of Pediatrics. (January 2011-February 2013)-Primary Investigator
6. Ashley J, **Calhoun A**, Boland K. Comprehensive Communication Training Program in Pediatric Medical Education. \$3,000 Children's Hospital Foundation (Feb 2011 – Dec 2011)-Co-director
7. **Calhoun A**, Porter M, Carter L, Hilbert T, Montgomery V, Orman K. A Proposal to Enhance the Emergency Care of Critically Ill Children Using Simulation Technology. \$19,319 Kentucky Hospital Research and Education Foundation. (February 2011-February 2013)-Primary Investigator
8. Fallat ME, Barbee AP, Sutton E, **Calhoun AW**, Taillac P. Compassionate Options for Pediatric EMS (COPE). \$849,246 Health Resources and Services Administration (HRSA). (Aug 2013-Aug 2016)-Coinvestigator
9. Laniewicz M, **Calhoun AW**. WHAS Crusade Grant for Additional Simulator Upgrades and Funding. \$6,000 WHAS Crusade for Children. (July 2014-July 2015)-Co-investigator
10. English D, Babbage S, Jones VF, Sterrett EM, Hines-Martin V, **Calhoun AW**, Falcone JC. Summer Health Professions Education Program – University of Louisville. \$333,000 Robert Wood Johnson Foundation. (Dec 2018-Nov 2019) – Co-investigator
11. Boone M, Laniewicz M, Hanson A, Sandquist M, **Calhoun AW**. SPARC Program Audiovisual Equipment Grant – \$139,270 TWIGS of Norton Children's Hospital. January 2019. Co-director.
12. Vora S, Mathias K, Sederstrom N, Jones VF, **Calhoun AW**. Does Implicit Racial Bias Impact Simulated Pediatric Cardiopulmonary Resuscitation Performance (CPR)? \$9,948 Society for Simulation in Healthcare, January 2019. Senior Investigator.
13. Vora S, Mathias K, Sederstrom N, Jones VF, **Calhoun AW**. Does Implicit Racial Bias Impact Simulated Pediatric Cardiopulmonary Resuscitation Performance (CPR)? \$10,000 INSPIRE, May 2019. Senior Investigator.
14. English D, Babbage S, Jones VF, Sterrett EM, Hines-Martin V, **Calhoun AW**, Falcone JC. Summer Health Professions Education Program – University of Louisville. \$333,000 Robert Wood Johnson Foundation. (Sept 2019-Aug 2020) – Co-investigator.
15. Marshall, G, Barton SP, Bryant KA, Statler V, Multerer S, Bohnert C, **Calhoun AW**. Assessment of the Effectiveness of Vaccine Communication Training Using Encounters with Standardized Vaccine-Hesitant Parents - \$145,551.28 Sanofi Pasteur. February 2020, Co-investigator. (\$23,330).
16. Warnick N, Mittel O, **Calhoun AW**. Improving Trauma Informed Care with Regard to Human Trafficking in Pediatric Residents. January 2023, University of Louisville Department of Pediatrics. (\$990).
17. Greer S, Sewell J, Spies R, Manga A, **Calhoun AW**, Emke A, Jeffe B. Validity Argument for the Cognitive Load Assessment Scales in Simulation (CLAS-Sim) Germane Load Scale: A Mixed-Methods Study of Learning Outcomes. March 2023, Central Group on Educational Affairs (\$5000).
18. Kim I, **Calhoun AW**. Establishing Bi-Directional Communication Network to a Historically Marginalized Community. Pediatric Pandemic Network. \$50,000 (2023-2024) – Co-investigator.

## GRANTS-SERVICE

1. Sullivan JE (PI), Berkenbosch JW, **Calhoun AW**, Stewart DL. NIBP System Efficacy by Comparison with Intraarterial Measurement in the Infant/Neonate Population. Welch Allyn. Protocol# Mod G 058P/20088121/REV E. Phase N/A. HSPPO# 09.0293. \$12,831 (2009-2010)-Collaborator

2. Sullivan JE (PI), Berkenbosch JW, Montgomery VL, **Calhoun AW**, Gupta M, Condurache CT. "A Phase II, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study to Determine the Pharmacodynamics of Sodium Nitroprusside During Prolonged Infusion in Pediatric Subjects." DCRI. Protocol NICHD-2003-09-LT. Phase II. HSSPO #08.0367. \$53,000 (2008-2011)-Collaborator
3. Montgomery VL, **Calhoun AW**, Sullivan JE, Berkenbosch JW, Porter M, Potter K, Gupta M, Hardin A. "Genetic Epidemiology of Life-Threatening Influenza Infection in Children and young adults." PALISI Network. Protocol N/A. Phase N/A. HSPPO# 08.0642. \$30,000. (2009-2013)-Collaborator
4. Porter MB, Sullivan JE, Berkenbosch JW, **Calhoun AW**, Montgomery VL, Ruppe MD, Padmanabhan P, McDonald MJ, Orman K, Potter KE, Hardin AO, Sears LL. "Therapeutic Hypothermia After Pediatric Cardiac Arrest: The THAPCA Trials." Subcontract with the University of Michigan. NIH. Protocol N/A. Phase N/A. HSPPO #10.0464. \$47,423. (2010-2014)-Collaborator
5. **Calhoun AW**, Sullivan J. Omegaven in PN-associated Liver Disease in Children: A Longitudinal Study. Kosair Charities. \$5,000.00 (2016)- Primary Investigator

#### UNFUNDED RESEARCH

1. **Calhoun, A.W.**, Sullivan, J. Omegaven in PN-associated Liver Disease in Children: A Longitudinal Study (2007-2018)
2. Montgomery V. et al. Observation of Multi-center Quality Improvement Project: Improving Safety and Quality of Tracheal Intubation Practice in Pediatric ICUs (NEAR4KIDS) (2012-2018)

#### ABSTRACTS AND PRESENTATIONS

##### ORAL PRESENTATIONS: State/Local Meetings

1. **Calhoun A.W.**, Who's the Boss, Leadership and Teamwork during a Pediatric Crisis. Presented at the Kentucky Transport and Nursing Conference, April 2009.

##### ORAL PRESENTATIONS: National/International Meetings

1. **Calhoun A.W.**, Rider E., Meyer E., Truog R. The Use of a 360-Degree Communication Skills Tool in Actual and Simulated ICU Family Meetings. Presented at the International Conference on Communication in Healthcare, October 2007
2. **Calhoun A.W.**, Peterson E., Meyer E., Rider, E. 360-Degree Assessment with Gap Analysis: An Innovative Means to Assess Communication Skill and Self-Insight. Presented at the International Conference on Communication in Healthcare, October 2009
3. **Calhoun AW**, Boone M, Montgomery V, Boland K. Complete Integration of a Simulation Center into Active Intensive Care Workspace: A Feasibility Study. (Note, received honorable mention in the Impact of Simulation Context and Physical Setting research award category) Presented at the International Meeting for Simulation in Healthcare, January 2010
4. Boland K, Bryant K, **Calhoun AW**, Devlin-Phinney L, McKinley T, Miller KH, Murray S, Peterson EB, Porter M, Potter K. A Communication Curriculum for Pediatric Trainees: Results of a Needs Assessment. Presented at the International Conference on Communication in Healthcare, October 2011
5. Peterson EB, Porter MB, **Calhoun AW**. A Simulation-based Communication Skills Curriculum: 1 Year Results. Presented at the International Conference on Communication in Healthcare, October 2011

6. Peterson EB, Rider EA, **Calhoun AW**. The Reliability of a Modified Kalamazoo Consensus Checklist for Assessing the Communication Skills of Clinicians in the Simulated Environment. Presented at the International Conference on Communication in Healthcare, October 2013
7. Peterson E, **Calhoun A**, Miller K, McKinley T, Murray S, Porter M, Potter K, Boland K. A Communication Skills Curriculum for Pediatric Residents: Update on Progress. Presented at the International Conference on Communication in Healthcare, October 2013
8. Tripathy S, Miller K, Berkenbosch J, McKinley T, Boland K, Brown S, **Calhoun AW**. When the Mannequin Dies: Creation and Exploration of a Theoretical Framework Using a Mixed-Methods Approach, Presented at the International Meeting for Simulation in Healthcare, January 2015 (Note, received third place award for best research)
9. Jiang S, A, Frigui H, **Calhoun AW**. Speaker Identification in Medical Simulation Data Using Fisher Vector Representation. Presented at the International Conference on machine Learning and Applications, December 2015.
10. Pantalos G, Hall S, Snider J, Heidel J, Riggs A, Hughes-Miller K, Martin K, Ziegler C, Sparks J, **Calhoun AW**. CardioKid Infant Mannequin for Hands-on Training and Simulation. To be presented at the American Society for Artificial Internal Organs Annual Conference, June 2018
11. Anton N, **Calhoun AW**, Stefanidis D. Current Research Priorities in Healthcare Simulation: Results of a Delphi Survey. Presented at the International Meeting on Simulation in Healthcare, January 2020, San Diego, California.

## POSTERS

### Local/Regional

1. Boone M, **Calhoun AW**, Boland K, Montgomery V. Crisis Management in the Just For Kids Critical Care Center. Presented at the Kosair Children's Hospital Safety Fair, October 2009
2. **Calhoun AW**, Boone M, Dauer A, Campbell D, Montgomery V. A Study of the Relationship Between Time Spent Delivering Care and Task Performance in a Pediatric Intensive Care Unit. Presented at the Kosair Children's Hospital Safety Fair, October 2009
3. **Calhoun AW**, Boone M, Dauer A, Campbell D, Montgomery V. A Study of the Relationship Between Time Spent Delivering Care and Task Performance in a Pediatric Intensive Care Unit. Presented at Research Louisville, October 2009
4. Boone M, **Calhoun A**, Montgomery M, Boland K. Integration of a Simulation Center into a Pediatric Intensive Care Unit. Presented at the Kentucky Organization of Nurse Leaders Annual Meeting, May 2010
5. Burns CM, Boland KA, Cross KP, **Calhoun AW**. A Structured Curriculum Significantly Enhances Procedural Performance in Pediatrics. Presented at Research Louisville, Sept 2013
6. Swiergosz A, Ngha B, Pyles L, **Calhoun AW**, Sparks J, Pantalos G. Single Ventricle Pediatric Mock Circulation for Student Instructional and Clinical Simulation. Presented at Research Louisville, October 2015
7. Tripathy S, Miller K, Berkenbosch J, McKinley T, Boland K, Brown S, **Calhoun AW**. When the Mannequin Dies: Creation and Exploration of a Theoretical Framework Using a Mixed-Methods Approach, Presented at the SIU School of Medicine Annual Symposium for Teaching and Learning, April 19<sup>th</sup>, 2016
8. Shi Z, Meltzer E, Suppes A, Hersh J, Orlander J, **Calhoun AW**, Tung J, Logio L, Manna R, Bialer P, Acres C, Fins J. Objective Structure Clinical Examinations and Simulation to Teach and Evaluate Communication With Surrogate Decision-makers: A Pilot Educational Initiative. Presented at Cornell University Medical Student Research Day, 2016.
9. McKinley T, Holloman J, Leslie K, Jones F, **Calhoun A**, Boland K. Qualitative Evaluation of a Poverty & Social Justice Rotation. Research!Louisville, September 2017. Note: 3<sup>rd</sup> place, Greenberg Award for Medical Education Research.

**National/International**

1. **Calhoun, A.W.**, Burns, J.P. The Use of a 360-degree Tool for Competency Assessment of Pediatric Critical Care Trainees. Presented at the Society of Critical Care Medicine's Critical Care Congress. February 2008
2. **Calhoun A.W.**, Rider E., Meyer E., Truog R. The Assessment of Physician Relational Skills in Real and Simulated ICU Settings Using a 360-Degree Tool. Presented at the Society of Critical Care Medicine's Critical Care Congress. February 2007
3. **Calhoun A.W.**, Rider E., Meyer E., Truog R. Using a 360-Degree Tool to Assess Relational Skills in Simulated and Actual Environments: A Case Study. Presented at the International Meeting on Simulation in Healthcare. January 2007
4. **Calhoun, A.W.**, Boone, M., Boland, K., Wesley, G., Montgomery, V. Integrating a Mobile High-Fidelity Simulation System into Active Patient Bedspaces: Addressing the Issue of Permanent Space. Presented at the International Meeting on Simulation in Healthcare. January 2009
5. Cross, K.P., Cammack, V.H., **Calhoun, A.W.**, Kim, I.K., Woods, C. Premature Departures from the Pediatric Emergency Department: a Cohort Study of Process-Related and Patient-Related Factors. Presented at the Pediatric Academic Societies Meeting. May 2009.
6. Peterson E., Porter M., Boone M., Wesley G., **Calhoun, A.W.** A Needs Assessment-Driven Curriculum for the Delivery of Bad News. Presented at the International Conference of Communication in Healthcare, October 2009
7. Peterson E., Porter M, Boone M., Wesley G., **Calhoun, A.W.** Delivering Bad News in the Pediatric Setting: A Multidisciplinary Needs Assessment. Presented at the American Academy of Pediatrics Annual Conference, October 2009
8. **Calhoun AW**, Boone M, Multerer S, Montgomery V, Boland K. Off-Site versus In-Situ Simulation for Pediatric Crisis Resource Management Training: a Quantitative and Qualitative Comparison. Presented at the International Meeting for Simulation in Healthcare, January 2010
9. **Calhoun AW**, Boone M, Taulbee R, Montgomery V, Boland K. A Multirater Tool for the Assessment of Participant Knowledge and Skills During Simulated Pediatric Crises. Presented at the International Meeting for Simulation in Healthcare, January 2010
10. **Calhoun AW**, Boone M, Dauer A, Campbell D, Montgomery V. A Study of the Relationship Between Time Spent Delivering Care and Task Performance in a Pediatric Intensive Care Unit. Presented at the Society of Critical Care Medicine's Critical Care Congress. January 2010
11. **Calhoun AW**, Burns JP. A Multirater Tool With Gap Analysis for the Assessment of Pediatric Critical Care Trainees. Presented at the Society of Critical Care Medicine's Critical Care Congress. January 2010
12. Potter K, **Calhoun AW**, Montgomery V. A Post-Orientation Curriculum in the Pediatric Intensive Care Unit Improves Nursing Knowledge and Satisfaction. Presented at the Society of Critical Care Medicine's Critical Care Congress. January 2010
13. Eldridge M, Berkenbosch J, **Calhoun A**, Montgomery V. Effect of Sedation Protocol on Duration of Mechanical Ventilation and Sedative Medication Use in Critically Ill Children. Presented at the Society of Critical Care Medicine's Critical Care Congress. January 2010
14. Peterson E., Porter M., Boone M., Wesley G., **Calhoun, A.W.** A Simulation-Based Curriculum for the Delivery of Bad News: Design and Preliminary Results. Presented at the International Meeting for Simulation in Healthcare, January 2010
15. Potter K., **Calhoun A.W.** Use of Rubrics for Assessment of Pediatric Critical Care Fellows. Presented at the Accreditation Council for Graduate Medical Education (ACGME) Yearly Conference. March 2010

16. Boone M., Boland K., Montgomery M., **Calhoun A.** Integration of a Simulation Center into a Pediatric Intensive Care Unit. Presented at the NACHRI Annual Leadership Conference, October 2010. Note: Winner, Top Poster Award
17. **Calhoun AW**, Boone M, Porter M, Potter K, Montgomery V, Boland K. The Use of a Graphical Feedback Form to Augment Traditional Debriefing: Description and Learner Impressions. Presented at the International Meeting for Simulation in Healthcare, January 2011
18. **Calhoun AW**, Boone M, Porter M, Potter K, Boland K, Montgomery V. Use of a Volunteer Staffing Model to Diminish Simulation Program Costs: A Two-Year Longitudinal Study. Presented at the International Meeting for Simulation in Healthcare, January 2011
19. **Calhoun AW**, Boone MC, Montgomery VL, Potter KP. When the Attending is Incorrect: Using Simulation to Address the Medical Hierarchy. Presented at the International Conference on Communication in Healthcare, October 2011
20. Potter K, Boland K, Bryant K, Miller KH, Peterson E, **Calhoun AW**. Two Philosophies, One Curriculum: Initial Results of a Communication Program. Presented at the International Conference on Communication in Healthcare, October 2011
21. **Calhoun AW**, Boone MC, Montgomery VL, Boland KA. The Use of Gap Analysis to Quantify Participant Self-Appraisal in Simulated Medical Crises. Presented at the International Meeting for Simulation in Healthcare, January 2012
22. Owen E, **Calhoun AW**, McDonald M. Reversible MRI abnormalities in Ethylene Glycol poisoning managed with ICP monitoring, pentobarbital coma, hypercalcemia and hyperosmolar therapies. Presented at the Society of Critical Care Medicine Annual Congress, February 2012
23. Yampolskiy RV, Frigui H, Hardin T, **Calhoun AW**. Semantic Indexing of Video Simulations for Enhancing Medical Care During Crises. Presented at the International Conference on Machine Learning and Applications, December 2012
24. **Calhoun AW**, Porter MB, Maus-Granholm P, Montgomery V, Orman K. Enhancing the Emergency Care of Critically Ill Children Using Mobile Simulation Technology. Presented at the Society of Critical Care Medicine Annual Congress, January 2013
25. **Calhoun AW**, Porter MB, Maus-Granholm P, Montgomery V, Orman K. Enhancing the Emergency Care of Critically Ill Children Using Mobile Simulation Technology. Presented at the International Meeting on Simulation in Healthcare, January 2013
26. Burns CM, Boland KA, Cross KP, **Calhoun AW**. A Structured Curriculum Significantly Enhances Procedural Performance in Pediatrics. Presented at the APPD/COMSEP Conference, April 2013
27. Burns CM, Boland KA, Cross KP, **Calhoun AW**. A Structured Curriculum Significantly Enhances Procedural Performance in Pediatrics. Presented at the PAS/SPR Conference, May 2013
28. Pantalos GM, Snider J, Joseph E, Miller KH, Martin K, Zeigler C, **Calhoun AW**. Pediatric Mock Circulation for Training and Clinical Simulation. Presented at the Extracorporeal Life Support Organization Conference, September 2014
29. Pantalos GM, Pyles L, Ngha B, Miller KH, Martin K, Ziegler C, Sparks J, **Calhoun AW**. Single Ventricle Model for Clinical Simulation Training. Presented at the American Society for Artificial Internal Organs Annual Conference, June 2015. ASAIO J Online Abstracts: 61, p 90. Abstract #65.
30. Sathik A, Frigui H, **Calhoun AW**. Identification of Cardio-Pulmonary Resuscitation (CPR) Scenes in Medical Simulation Videos Using Spatio-temporal Gradient Orientations. Presented at the International Conference on Image Processing Theory, Tools and Applications, November 2015.
31. **Calhoun AW**, Maa T, Auerbach M, Overly F, Geeraerts T, Dong Y, Arteaga G, Khodadoust N, Venegas-Borsellino C, LeFlore J, Raymond T, Nadkarni V, Kurrek M. How Closely Does Simulation Approximate Reality? A Comparison

of Key Resuscitation Metrics Between Simulated and Actual Cardiopulmonary Arrests. Presented at the International Meeting on Simulation in Healthcare, January 2016

32. Peterson E, Porter M, **Calhoun AW**. Medical and Relational Crisis Simulation (MARCS) in Pediatric Critical Care Medicine: The Development of a Novel Hybrid Simulation Curriculum. Presented at the International Meeting on Simulation in Healthcare, January 2016
33. Henderson N, Myers J, Wells T, Berkenbosch J, **Calhoun AW**, Sullivan J, Tzanetos D. Use of TEG to Direct Heparin Management in Neonatal and Pediatric ECMO Patients. Presented at the Society of Critical Care Medicine's Critical Care Congress, February 2016. (Note, received Research Snapshot Award)
34. Henderson N, Wells T, **Calhoun AW**, Berkenbosch J, Sullivan J, Myers J, Tzanetos D. Empirically Based Cut-off of Anti-Xa for Predicting a Significant Thrombotic Event and Significant Bleeding for Pediatric and Neonatal ECMO Patients. Presented at the Society of Critical Care Medicine's Critical Care Congress, February 2016.
35. Henderson N, Wells T, Berkenbosch J, Sullivan J, **Calhoun AW**, Myers J, Tzanetos D. New Markers for the Prevention of Thrombus Formation and Significant Bleeding for Pediatric and Neonatal ECMO Patients. Presented at the Society of Critical Care Medicine's Critical Care Congress, February 2016.
36. Swiergosz A, Ngha B, Pyles L, **Calhoun AW**, Martin K, Hughes-Miller K, Sparks J, Pantalos G. Continuing Development of a Single Ventricle Pediatric Mock Circulation for Student Instruction and Clinical Simulation. Presented at the American Society for Artificial Internal Organs, June 2016.
37. McBride M, Schinasi D, Moga MA, Tripathy S, **Calhoun A**. Death of a Simulated Patient: Toward a More Robust Theoretical Framework. Presented at the Midwest Society for Pediatric Research Conference, September 2016.
38. McBride M, Schinasi D, Moga MA, Tripathy S, **Calhoun A**. Death of a Simulated Patient: A Robust Theoretical Framework for Simulations. Presented at the Pediatric Emergency Medicine Israel Conference, November 2016.
39. **Calhoun AW**, Sutton E, Barbee A, McClure B, Bohnert C, Forest R, Taillac P, Fallat M. Compassionate Options for Pediatric EMS (COPE): Initial Evidence for a Self-Debriefing Based Communication Skills Intervention. Presented at the International Meeting on Simulation in Healthcare, January 29, 2017
40. **Calhoun A**, Boone M, Sandquist M. Use of Simulated "Speed Codes" to Benchmark Non-attending Preparedness for Critical Events. Presented at the Joint AAP Section on Critical Care-Pediatric Critical Care Colloquium, September 2017.
41. **Calhoun A**, Boone M, Sandquist M. Use of Simulated "Speed Codes" to Benchmark Non-attending Preparedness for Critical Events. Presented at the International Meeting on Simulation in Healthcare, January 2018.
42. Sathik AP, Frigui H, **Calhoun AW**. Cardio-Pulmonary Resuscitation (CPR) Scene Retrieval from Medical Simulation Videos using Local Binary Patterns Over Three Orthogonal Planes. Presented at the 2018 International Conference on Content-Based Multimedia Indexing.
43. Zargham S, Hanson A, Laniewicz M, Kessler D, Sandquist M, Gilbert G, **Calhoun AW**. Debriefing the Debriefers: Evaluating Pediatric Emergency Medicine Fellows Debriefing Critical Event Simulation Experiences. Presented at the 2019 International Meeting on Simulation in Healthcare, Jan 27th, 2019, San Antonio, Texas.
44. Hanson AH, Laniewicz MB, Warkentine FH, Boone M, **Calhoun AW**. The Influence of Debriefing on Team Perception of Strengths and Weaknesses Following Simulated Medical Crises. Presented at the 2019 International Meeting on Simulation in Healthcare, Jan 27th, 2019, San Antonio, Texas.
45. Stefanidis D, Anton N, **Calhoun AW**. Current Research Priorities in Healthcare Simulation. Presented at the 2019 International Meeting on Simulation in Healthcare, Jan 27th, 2019, San Antonio, Texas.
46. **Calhoun AW**, Pian-Smith M, Shah A, Levine A, Gaba D, DeMaria S, Goldberg A, Meyer E. "Modification" of Information Provided to Learners During Simulation: An Exploratory Study. Presented at the 2019 International Meeting on Simulation in Healthcare, Jan 27th, 2019, San Antonio, Texas.

47. Martin SD, **Calhoun AW**, Porter MB, Berkenbosch J. Variability in Patterns of Feeding PICU Patients on High-Flow Nasal Cannula: When Is It Safe? Presented at the Society for Critical Care Medicine Congress, February 2019, Orlando, Florida
48. Tryon C, **Calhoun AW**, Hanofee C, Havlin K, Berkenbosch J. Impact of Age on Procedural Sedation Practices and Outcomes: A Report From the PSRC. Presented at the Society for Critical Care Medicine Congress, February 2019, Orlando, Florida
49. Bohnert C, Mittel O, Green J, **Calhoun A**. Integrating Human Trafficking into Graduate Nursing Education. Presented at the Association of Standardized Patient Educators Annual Conference, June 2019, Orlando, Florida
50. Dessie AS, **Calhoun AW**, Gilbert GE, Lewiss RE, Rabiner J, Uya A, Tsze DS, Kanjanaptom P, Kessler DO. Development and Validation of a Point-of-care Ultrasound Image Quality Assessment Tool: The POCUS IQ Scale. Presented at the American College of Emergency Physicians Annual Meeting, October 2019, Denver, Colorado
51. McKinley T, Holloman J, Leslie KF, Jones VF, **Calhoun AW**, Langford S, Hodge B, Boland KA. Transformative Learning of Pediatric Trainees Through a Local-Global Social Justice Elective. Presented at the CHOP Global Health Conference, October 2019, Philadelphia, Pennsylvania.
52. Trace ME, Brothers KB, **Calhoun AW**, Craft LT, Winders-Davis D, Feygin YB, Sullivan JE, Williams PG. ADHD Practice Patterns: A Survey of Kentucky Pediatric Providers. Presented at the Pediatric Academic Societies (PAS) Annual Conference, May 2020, Philadelphia, Pennsylvania.
53. Marshall G, Bryant K, Multerer S, Statler V, **Calhoun AW**, Bohnert C. AIMS-trained Residents Exhibit Specific Communication Skills in a Standardized Patient Model of Vaccine Hesitancy. Presented at IDWeek 2020, Virtual.
54. Trace ME, Brothers KB, **Calhoun AW**, Craft LT, Winders-Davis D, Feygin YB, Sullivan JE, Williams PG. ADHD Practice Patterns: A Survey of Kentucky Pediatric Providers. Presented at the Society for Developmental and Behavioral Pediatrics Annual Meeting, October 2020, Virtual.
55. Florez A, Shepard L, Frey M, Justice L, Constand S, Gilbert G, Kessler D, Kerrey B, **Calhoun AW**. The Concise Assessment of Leader Management Tool: Evaluation of Healthcare Provider Leadership During Real-Life Pediatric Emergencies. Presented at PCICS Virtual, September 2021.
56. **Calhoun AW**, Gross I, Mallory L, Shepard L, Adler M, Maa T, Auerbach M, Cheng A, Kessler D, Whitfill T, Duff J. From Concept to Publication: Effectiveness of the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) Project Development Process at Generating Simulation Scholarship. presented at the International Meeting on Simulation in Healthcare (IMSH), January 2022.
57. Thang C, Kucaj S, **Calhoun AW**, Lay K, Lee J, Garell C, Szilagyi M. Development and Validation of a Trauma-Informed Care Communication Skills Assessment Tool for Pediatric Residents. Presented at Pediatric Academic Societies, April 2023
58. Thang C, Kucaj S, **Calhoun AW**, Lay K, Lee J, Garell C, Szilagyi M. Development and Validation of a Trauma-Informed Care Communication Skills Assessment Tool for Pediatric Residents. To be presented at the American Academy of Pediatrics Conference, October 2023
59. Furlong-Dillard J, Abdulebda K, **Calhoun AW**. Validating a Pediatric ECMO Checklist for Clinical Specialists Across Institutions Using a Delphi Method. To be presented at the Extracorporeal Life Support Organization (ELSO) 34<sup>th</sup> Annual Conference, September 2023.
60. Dennis D, **Calhoun AW**, Knott C, Khanna R, Van Heerden P. Advice for intensivists from intensivists: summation of a qualitative study. To be presented at the European Society of Intensive Care Medicine 2023 Annual Conference, October 2023.
61. Dennis D, **Calhoun AW**, Knott C, Khanna R, Van Heerden P. Coping strategies, modifiers and supports that allow Intensivists to flourish in the ICU setting. To be presented at the European Society of Intensive Care Medicine 2023 Annual Conference, October 2023.

62. Dennis D, **Calhoun AW**, Knott C, Khanna R, Van Heerden P. Constructing the persona of the intensivist: a qualitative study. To be presented at the European Society of Intensive Care Medicine 2023 Annual Conference, October 2023.

## PUBLICATIONS

### PEER-REVIEWED Journal Articles

1. **Calhoun, A.W.**, Guyatt, G.H., Cabana, M., Lu, D., Turner, D.A., Valentine, S.V., Randolph, A.G. Addressing the Unit of Analysis in Medical Care Studies: A Systematic Review. *Medical Care*, 46(6):635-643, June 2008
2. **Calhoun A.W.**, Rider E.A. Engagement and Listening Skills: Identifying Learning Needs. *Medical Education*. 42(11):1134-1135, November 2008
3. **Calhoun A.W.**, Rider E., Meyer E., Lamiani, G., Truog R. Assessment of Communication Skills and Self-Appraisal in the Simulated Environment: Feasibility of Multi-rater Feedback with Gap Analysis. *Simulation in Healthcare*. 4(1):22-29, Spring 2009
4. **Calhoun A.W.**, Sullivan J.E. Omegaven for the Treatment of Parenteral Nutrition Associated Liver Disease: A Case Study. *Journal of the KMA*. 107(2):55-57, Feb 2009
5. Cross K.P., Cammack V.H., **Calhoun A.W.**, Gracely E., Kim I.K., Woods C. Premature Departures from the Pediatric Emergency Department: A Retrospective Cohort Analysis of Process-Related and Patient-Related Factors. *Pediatric Emergency Care*. 2010 May; 26(5):349-56
6. **Calhoun A.W.**, Peterson E., Meyer E., Rider, E. Multirater Feedback with Gap Analysis: An Innovative Means to Assess Communication Skill and Self-Insight. *Patient Education and Counseling*. 80(3):321-326. September 2010. **Note: Invited Research Article**
7. **Calhoun AW**, Boone M, Miller KH, Taulbee R, Montgomery V, Boland K. A Multirater Instrument for the Assessment of Simulated Pediatric Crises. *Journal of Graduate Medical Education*. 3(1):88-94. March 2011
8. **Calhoun AW**, Boone M, Peterson E, Montgomery V, Boland K. Integrated In-situ Simulation Using Redirected Educational Time to Minimize Costs: A Feasibility Study. *Simulation in Healthcare*. 6(6):337-344. December 2011
9. Peterson E, Porter M, **Calhoun AW**. A Simulation-based Curriculum to Address Relational Crises in Medicine. *Journal of Graduate Medical Education*. 4(3):351-356. September 2012
10. **Calhoun AW**, Boone MC, Miller KH, Pian-Smith MC. Case and Commentary: Using Simulation to Address Hierarchy Issues During Medical Crises. *Simulation in Healthcare*. 8(1):13-19. February 2013
11. Jiang S, Frigui H, **Calhoun AW**. Text-independent Speaker Identification Using Soft Bag-of-Words Feature Representation. *International Journal of Fuzzy Logic and Intelligent Systems*. 13(1):50-57 March 2013
12. **Calhoun AW**, Boone MC, Porter MB, Miller KH. Using Simulation to Address Hierarchy-related Errors in Medical Practice. *The Permanente Journal*. 18(2):14-20. Spring 2014 **Note: Invited Research Article**
13. **Calhoun AW**, Boone M, Dauer A, Campbell D, Montgomery V. Using Simulation to Investigate the Impact of Hours Worked on Task Performance in a Pediatric Intensive Care Unit. *American Journal of Critical Care*. 23(5):1-7. September 2014
14. Peterson EB, **Calhoun AW**, Rider EA. The Reliability of a Modified Kalamazoo Consensus Checklist for Assessing the Communication Skills of Clinicians in the Simulated Environment. *Patient Education and Counseling*. 96(3):411-418. September 2014 **Note: Invited Research Article**

15. **Calhoun AW**, Pian-Smith MCM, Truog RD, Gaba D, Meyer, EC. Deception and Simulation Education: Issues, Concepts, and Commentary. *Simulation in Healthcare*. 10(3):163-169. June 2015
16. Kurrek M, Morgan P, Howard S, Kranke P, **Calhoun AW**, Hui J, Kiss A. Simulation as a New Tool to Establish Benchmark Outcome Measures in Obstetrics. *PLoS ONE*. June 24 10(6):e0131064, 2015
17. **Calhoun AW**, Pian-Smith MCM, Truog RD, Gaba DM, Meyer EC. The Importance of Deception in Simulation: A Response. *Simulation in Healthcare*. 10(6):387-390. December 2015
18. Owen EB, Woods CR, O'Flynn JA, Boone MC, **Calhoun AW**, Montgomery VL. A Bedside Decision Tree for Use of Saline With Endotracheal Tube Suctioning. *Critical Care Nurse*. 36(1):e1-e10 February 2016
19. Tripathy S, Miller KH, Berkenbosch JW, McKinley T, Boland K, Brown SA, **Calhoun AW**. When the Mannequin Dies: Creation and Exploration of a Theoretical Framework Using a Mixed Methods Approach. *Simulation in Healthcare*. 11(3):149-156, 2016.
20. Gonzales MJ, Henry JM, **Calhoun AW**, Riek LD. Visual TASK: A Collaborative Cognitive Aid for Acute Care Resuscitation. *Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health)*, pp. 1-8, June 16, 2016.
21. **Calhoun AW**, Bhanji F, Sherbino J, Hatala R. Simulation for High-Stakes Assessment in Pediatric Emergency Medicine. *Clinical Pediatric Emergency Medicine*. 17(3):212-223, September 2016. **Note: Invited Article**
22. Cheng A, Kessler D, Mackinnon R, Chang T, Nadkarni V, Hunt E, Duval-Arnould J, Lin Y, Cook D, Pusic M, Hui J, Moher D, Egger M, Auerbach M, and **for the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) Reporting Guideline Investigators**. Reporting Guidelines for Health Care Simulation Research: Extensions to the CONSORT and STROBE Statements. *Advances in Simulation*. 1:25, 2016; *Simulation in Healthcare*, 11(4), 238-248, August 2016.
23. Peterson EB, Boland KA, Bryant KA, McKinley TF, Porter MB, Potter KE, **Calhoun AW**. Development of a Comprehensive Communication Skills Curriculum for Pediatric Residents. *Journal of Graduate Medical Education*. 8(5):739-746, December 2016.
24. Amaral A, Rider B, Lajolo P, Tone L, Pinto R, Lajolo M, **Calhoun AW**. Development of Brazilian Portuguese Adapted Version of the Gap-Kalamazoo Communication Skills Assessment Form. *International Journal of Medical Education*. 2016;7:400-405
25. Bohnert C, **Calhoun AW**, Mittel O. Taking Up the Mantle of Human Trafficking Education: Who Should be Responsible? *American Medical Association Journal of Ethics*. 19(1):35-42, January 2017.
26. **Calhoun AW**, Sutton E, Barbee A, McClure B, Bohnert C, Forest R, Taillac P, Fallat M. Compassionate Options for Pediatric EMS (COPE): Addressing Communication Skills. *Prehospital Emergency Care*. 21(3):334-343 May-June 2017.
27. Andersen LW, Vognsen M, Topjian A, Brown L, Berg RA, Nadkarni VM, Kirkegaard H, Donnino MW; **American Heart Association's Get With The Guidelines-Resuscitation Investigators**. Pediatric In-Hospital Acute Respiratory Compromise: A Report From the American Heart Association's Get With the Guidelines-Resuscitation Registry. *Pediatric Critical Care Medicine*. 18(9):838-849, Sept 2017.
28. Meltzer EC, Shi Z, Suppes A, Hersh JE, Orlander JD, **Calhoun AW**, Tung J, Logio L, Manna R, Bialer PA, Acres CA, Fins JJ. Improving Communication With Surrogate Decision-makers: A Pilot Initiative for Medicine Residents. *Journal of Graduate Medical Education*. 9(4):461-466. August 2017.
29. **Calhoun AW**, Gaba DM. Live or Let Die: New Developments in the Ongoing Debate over Mannequin Death. *Simulation in Healthcare*. 12(5):279-281, October 2017.
30. McBride ME, Schinasi DA, Moga MA, Tripathy S, **Calhoun AW**. Death of a Simulated Pediatric Patient: Toward a More Robust Theoretical Framework. *Simulation in Healthcare*. 12(6):393-341, December 2017

31. Holmberg MJ, Moskowitz A, Raymond TT, Berg RA, Nadkarni VM, Topjian AA, Grossestreuer AV, Donnino MW, Andersen LW; **American Heart Association's Get With The Guidelines-Resuscitation Investigators**. Derivation and Internal Validation of a Mortality Prediction Tool for Initial Survivors of Pediatric In-Hospital Cardiac Arrest. *Pediatric Critical Care Medicine*. 19(3):186-195. March 2018.
32. Nadkarni L, Roskind C, Auerbach M, **Calhoun AW**, Adler M, Kessler D. The Development and Validation of a Concise Tool for Assessing Leader Performance During Mock Resuscitations. *Simulation in Healthcare*. 13(2):77-82, April 2018.
33. Adler M, **Calhoun AW**. FIRES: Bridging the Publication Gap for Upcoming Investigators. *Simulation in Healthcare*. 13(3):147-148 June 2018
34. Scerbo MW, **Calhoun AW**, Paige JT, Sanko J, Sokolowski J. The Second Society for Simulation in Healthcare Research Summit: Beyond our Boundaries. *Simulation in Healthcare*. 13(3S Suppl 1):S1-S6. June 2018
35. Cheng A, Auerbach M, **Calhoun AW**, Mackinnon R, Chang T, Nadkarni V, Hunt EA, Duval-Arnould J, Pusic M, Peiris N, Kessler D. Building a Community of Practice for Researchers: The International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE). *Simulation in Healthcare*. 13(3S Suppl 1):S28-S34. June 2018.
36. Cheng A, **Calhoun AW**, Topps D, Adler M, Ellaway R. Using the METRICS Model for Defining Routes to Scholarship in Healthcare Simulation. *Medical Teacher*. 40(7):652-660. July 2018.
37. Cheng A, Nadkarni VM, Mancini MB, Hunt EA, Sinz EH, Merchant RM, Donoghue A, Duff JP, Eppich W, Auerbach M, Bigham BL, Blewer AL, Chan PS, Bhanji F; **American Heart Association Education Science Investigators**; and on behalf of the American Heart Association Education Science and Programs Committee, Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation; Council on Cardiovascular and Stroke Nursing; and Council on Quality of Care and Outcomes Research. Resuscitation Education Science: Educational Strategies to Improve Outcomes From Cardiac Arrest: A Scientific Statement From the American Heart Association. *Circulation*. 138(6)e82-e122. August 2018.
38. Henderson N, Sullivan JE, Myers J, Wells T, **Calhoun A**, Berkenbosch J, Tzanetos DT. Use of Thromboelastography to Predict Thrombotic Complications in Pediatric and Neonatal Extracorporeal Membranous Oxygenation. *Journal of Extra Corporeal Technology*. 50(3):149-154. September 2018
39. **Calhoun AW**, Nadkarni, V, Venegas-Borsellino C, White M, Kurrek M. Concepts for the Simulation Community: Development of the International Simulation Data Registry. *Simulation in Healthcare*. 13(6):427-434. December 2018.
40. Hunt EA, Duval-Arnould JM, Bembea MM, Raymond T, **Calhoun AW**, Atkins DL, Berg RA, Nadkarni VM, Donnino M, Andersen LW, for the American Heart Association Get With The Guidelines Investigators. Association Between Time to Defibrillation and Survival in Pediatric In-hospital Cardiac Arrest With a First Documented Shockable Rhythm. *JAMA Network Open*. 1(5):e182643. September 2018.
41. Laroia R, Burns CM, Boland KA, **Calhoun AW**, Owen EB, Stevenson MD, Berkenbosch JW, Cross KP. Efficacy of a Pediatric Procedure Curriculum on Resident Training. *Progress in Pediatric Cardiology*. 55: <https://doi.org/10.1016/j.ppedcard.2019.05.002>. December 2019.
42. Walsh, B, Auerbach M, Byrne B, Brown L, Gawel MN, Brown LL, Byrne BJ, **Calhoun AW**. On behalf of the INSPIRE ImPACTS Investigators, Community-based Distributed In-Situ Simulation: Bringing Simulation to the Masses. *Advances in Simulation*. 4(30): <https://doi.org/10.1186/s41077-019-0112-y>. December 2019.
43. **Calhoun AW**, Pian-Smith M, Shah A, Levine A, Gaba D, DeMaria S, Goldberg A, Meyer EC. Exploring the Boundaries of Deception in Simulation: A Mixed-Methods Study. *Clinical Simulation in Nursing*. 40:7-16. March 2020.

44. **Calhoun AW**, Pian-Smith M, Shah A, Levine A, Gaba D, DeMaria S, Goldberg A, Meyer EC. Guidelines for the Responsible Use of Deception in Simulation: Ethical and Educational Considerations. *Simulation in Healthcare*. 15(4):282-288. August 2020.
45. Sanko JS, **Calhoun AW**, Issenberg SB, Kelly M, Battista A. Reflections on Career-pathways of Simulation-focused Experts in the Field. *Simulation in Healthcare*. 2020 Dec;15(6):432-437.
46. Peterson EB, Boone M, Orman K, Porter M, **Calhoun AW**. Mixed Reality Simulation for a Pediatric Transport Team. *Air Medical Journal*. 2020, 39:173-177.
47. Tzanetos DRT, Montgomery V, Harrington W, **Calhoun AW**. Implementation of a “threat and error” model in complex neonatal cardiac surgery patients to identify quality improvement opportunities. *Cardiology in the Young*. June, 2020.
48. Zargham S, Hanson A, Laniewicz M, Sandquist M, Kessler DO, Gilbert GE, **Calhoun AW**. Evaluating a Debriefing Assessment in a Different Context: Psychometric Testing of the DASH for Post-Critical Event Debriefing. *Academic Emergency Medicine Education and Training*. 2020. <https://doi.org/10.1002/aet2.10482>
49. **Calhoun AW**. Primum Non Nocere. *Simulation in Healthcare*. 15(5):301-302. 2020.
50. Wagner M, Jaki C, Löllgen R, Mileder L, Eibensteiner F, Ritschl V, Steinbauer P, Gottstein M, Abulebda K, **Calhoun AW**, Gross IT. Readiness for and response to COVID-19 among pediatric health care providers: The role of simulation for pandemics and other disasters. *Pediatric Critical Care Medicine*. December 21 online.
51. Peterson E, Morgan R, **Calhoun AW**. Improving Patient-and Family-Centered Communication in Pediatrics: A Review of Simulation-Based Learning. *Pediatric Annals* 50 (1), e32-e38.
52. Tzanetos D, **Calhoun AW**. Respiratory Therapy-Driven Protocols: An Important Component to Decrease Overutilization in Medicine. *Respiratory Care*. 66(1):175-176, 2021.
53. Anton N, **Calhoun AW**, Stefanidis D. Current Research Priorities in Healthcare Simulation: Results of a Delphi Survey. *Simulation in Healthcare*. 2022 Feb 1;17(1):e1-e7.
54. Vora S, Dahlen B, Adler M, Kessler D, Jones VF, Kimble S, **Calhoun AW**. Recommendations and Guidelines for the Use of Simulation to Address Structural Racism and Implicit Bias. *Simulation in Healthcare*. 16(4):275-284. 2021.
55. Thyagarajan S, Ramachandra G, Jamalpuri V, **Calhoun AW**, Nadkarni V, Deutsch E. “Simulathon 2020”: Integrating Simulation Period Prevalence Methodology into the COVID-19 Disaster Management Cycle in India. *Simulation in Healthcare*. 2022 June 17(3);183-191.
56. Trace ME, Feygin YB, Williams PG, Davis DW, Brothers KB, Sullivan JE, **Calhoun AW**. Attention-Deficit/Hyperactivity Disorder Practice Patterns: A Survey of Kentucky Pediatric Providers. *Journal of Developmental and Behavioral Pediatrics*. 2022 May 1;43(4):233-239.
57. Barton SM, **Calhoun AW**, Bohnert CA, Multerer SM, Statler VA, Bryant KA, Arnold DM, Felton HM, Purcell PM, Kinney MD, Parrish-Sprout JM, Marshall GS. Standardized Vaccine-Hesitant Patients in the Assessment of the Effectiveness of Vaccine Communication Training. *Journal of Pediatrics*. 2022 Feb; 241; 203-211.
58. **Calhoun AW**, Gross IT, Mallory L, Shepard L, Adler M, Maa T, Auerbach M, Cheng A, Kessler D, Whitfill T, Duff JP. From Concept to Publication: Effectiveness of the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE) Project Development Process at Generating Simulation Scholarship. *Simulation in Healthcare*. 2022 Dec 27, 17(6):385-393.
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