

# Annual Report

**INSPIRE | 2023**



# Table of Contents

Preface	3
INSPIRE Overview	4
Vision	4
Mission	4
Values	4
Current Network Snapshot	5
Members by country	5
History	6
Organization	6
Organizational Structure of INSPIRE	6
Executive Committee	6
Strategic Planning: Charting our future course together.	7
Connect.	9
INSPIRE Funding and Partners	9
What does INSPIRE mean to you?	10
Incubate.	11
IPSS-INSPIRE Fellowship: Developing simulation leaders	11
ALERTs: Incubating Research Ideas	12
Accelerate.	13
2023 INSPIRE Highlights: Ongoing and Completed Projects and Initiatives	13
PROJECTS	13
INSPIRE-related research initiatives	13
2023 Research Awards: Investing in our community.	15
Award Outcomes in 2023: Catalyzing innovation	16
2023 INSPIRE Scholarly Impact	18
~\$6.1M in Funding and Support for INSPIRE Collaborators	18
Abstracts	20
Peer-Reviewed Publications	24
Other Publications	31
Optimize.	32
Current Executive Committee Members	32
INSPIRE Advisory Committee	33
Committees, Roles, and Positions	34
Executive Committee	34
Committees	39

## Preface

Dear INSPIRE community,

This annual report spans the network's productivity from August 2022 to August 2023 and major achievements through the end of 2023. As we reflect on the past year, there's no question we continue to be at the forefront of pediatric simulation in healthcare thanks to the work of all of you who employ simulation to teach, learn, discover, provide patient care, and support our community. Together, we have many successes across the organization to celebrate, and here are a few highlights with more detail to be found in this report.

### **This year, we...**

Changed lives by...

- Mentoring 4 graduating fellows who have become simulation leaders and gone on to promote excellence in simulation-based education and research in their home countries. Congratulations to Daniel Orqueda, MD (Argentina), Katharina Bibl, MD (Austria), Vijayanand Jamalpur, MD (India), Mahima Singh, MD (India).

Made an impact in simulation scholarship by...

- Establishing evidence-based practice guidelines in simulation and identifying gaps in research through leadership in the 2023 Society for Simulation in Healthcare Research Summit.
- SQUIRE-Sim: a network-wide project to develop simulation-based extensions to the existing SQUIRE 2.0 quality improvement reporting guidelines. Manuscript submitted 12/2023.

Overcame challenges....

- We were the victims of wire fraud but with the help of our management company, ARS, and the FBI, we were fortunate to recover 100% of the stolen funds.

Supported each other through...

- Our IMSH 2023 meeting: 12 ALERTS, 3 international (Pakistan, Canada)
- Fall Virtual 2023 meeting: 23 ALERTS, 13 international (India, Pakistan, Brazil, New Zealand and Ghana)
- Presenting 4 virtual grand rounds, highlighting the research achievements of our members: Nov 2022 Eve Purdy, April 2023 Adeel Khatri, Sept 2023 Betsy Hunt, Nov 2023 Amy Florez.
- Investing in our community through award funding (See more on page 16).

Partnered with others to...

- Co-author an editorial with simulation leaders of AAP, IPSS, SSH, PediStar to advocate for a call to action for simulation-based procedural skills training during pediatric residency training.
- Form strategic collaborations with the Pediatric Emergency Care Applied Research Network (PECARN) and the Association of Child Life Professionals (ACLP). Synergy with these organizations will give our discoveries broader potential impact.

Planned for our future by...

- Embracing our strengths and opportunities through brainstorming activities done at INSPIRE @IMSH and IPSS meetings and using these results to inform our 3-year strategic plan. (See the plan on page 7).

As we reflect on this past year, we remain incredibly grateful for all of you. Thank you for your commitment to the INSPIRE mission to *catalyze innovative global simulation-based collaborative scholarship to improve pediatric health*. We invite you to return, engage, participate, lead, and include others as we dive into 2024 and we look forward to many more accomplishments in the year to come!

Sincerely, Tensing Maa, Jon Duff, and Kimberly Stone  
INSPIRE Co-Chairs, on behalf of the INSPIRE Executive Board



# INSPIRE Overview

## Vision



## Mission

To catalyze global simulation-based collaborative scholarship to improve pediatric health.

## Values

### Community

We strive to create a **collaborative** environment with open sharing of ideas and **accessibility** between members while breaking down silos.

### Discovery

We encourage **innovation** through **healthy risk taking** and challenging the status quo.

### Integrity

We believe in **transparency**, **trust**, **respect**, and high standards for **quality** in all of our endeavors.



## Current Network Snapshot

**992**

community members

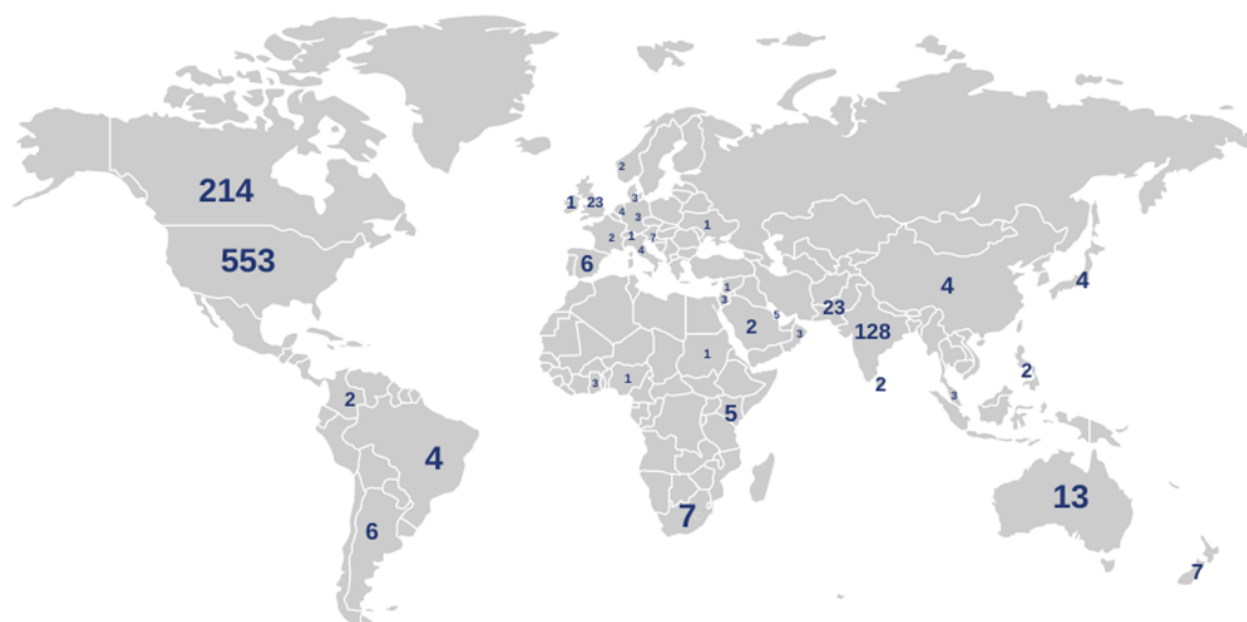
**215**

sites

**40**

countries

### Members by country



## History

INSPIRE stands for the International Network for Simulation-based Pediatric Innovation, Research, and Education. Looking to improve collaboration, mentorship, and productivity, two large-scale, existing, multidisciplinary, pediatric simulation research networks, EXPRESS and POISE, merged to become INSPIRE in 2011.

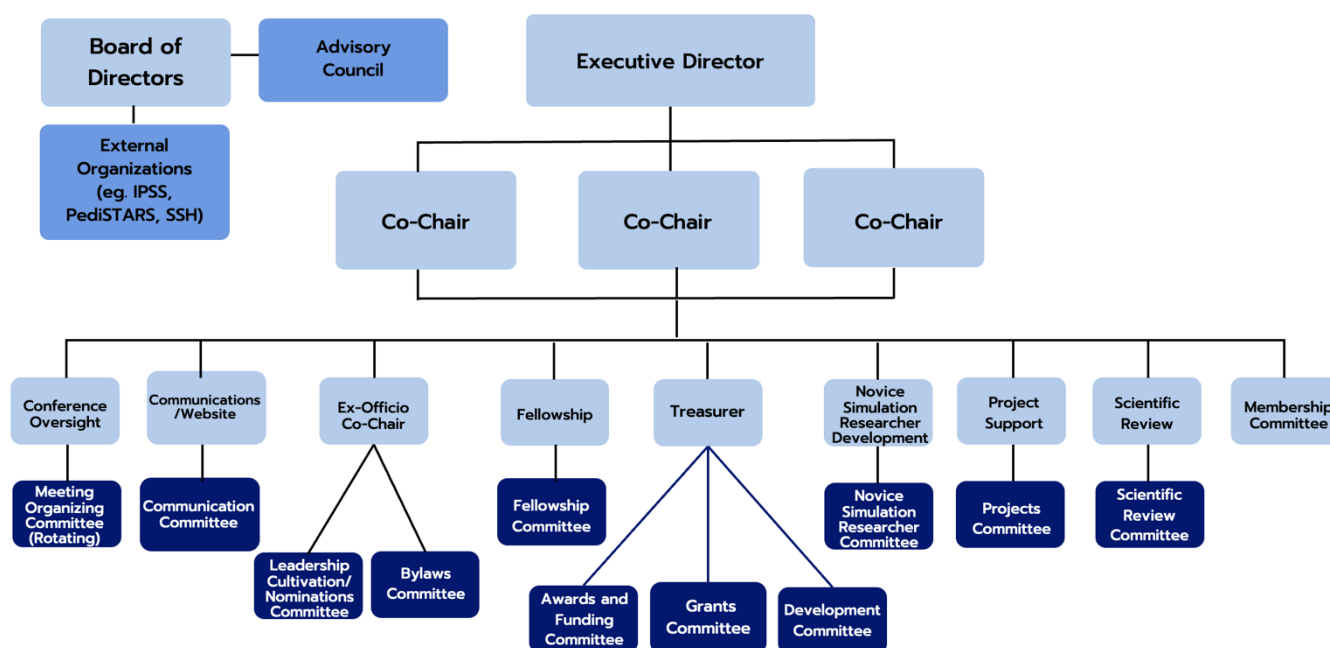
## Organization

The process of centralizing all pediatric simulation research through INSPIRE has brought down the walls between institutions and allowed for sharing our resources and minds towards a common goal. Our work has helped synergize ongoing projects in overlapping domains. We are not a formal academic society; rather, we are a bottom-up, grassroots organization that formed to meet the needs of the rapidly changing landscape of pediatric simulation research. The network has been extremely productive in advancing and guiding simulation-based research activities, and we excel as an incubator for cutting-edge innovation. We provide a structure and process of mentorship to junior investigators. In 2020, INSPIRE became 501(c)3 non-profit status.

## Organizational Structure of INSPIRE

### Executive Committee

INSPIRE is led by volunteers on the executive committee from institutions across the globe, and our network's success fully depends upon the time and energy they put into the network. Thank you to all those who have volunteered or were candidates in the election this year! INSPIRE's executive committee structure is below:



## Strategic Planning: Charting our future course together.

Excitingly, in September 2023, INSPIRE's leadership met at the Children's Hospital of Philadelphia (CHOP) for a 3-day intensive strategic planning retreat to renew INSPIRE's mission and vision and to produce an ambitious 3-year strategic plan for the network.

We are excited to share this strategic plan with you that will be rolled out over the next three years!

### INSPIRE leadership at CHOP in September 2023



Our 3-year strategic goal is to be the recognized leader in pediatric simulation research. While continuing to focus on our strengths of fostering novice researchers, we wish to do better at translating our discoveries to patient outcomes. We have identified four pillars to support this goal: (1) connect, (2) incubate, (3) accelerate, and (4) optimize.





During this time, we also reimagined INSPIRE's mission statement to better reflect who we serve, what we aim to do and how we accomplish this. Our mission is:

**To catalyze global simulation-based collaborative scholarship to improve pediatric health.**

**2024-2027 Strategic Goal:  
To be the recognized leader in pediatric simulation research.**



## The four pillars of INSPIRE's 2024-2027 Strategic Plan:

Connect	Incubate	Accelerate	Optimize
 <p>Strategically create and develop collaboration and connection opportunities among a diverse alliance of stakeholders.</p>	 <p>Create a diverse, inclusive, welcoming community to catalyze, nurture, and improve simulation-based research ideas and support members.</p>	 <p>Focus on selected research projects to move into the next phase of research and for translation into innovations for dissemination.</p>	 <p>Establish, implement, and monitor, flexible, efficient structures and processes to support and disseminate operations of simulation research.</p>

### Connect

To create more opportunities for engagement and leverage the power of our community, we will focus on four key strategies: (1) **strategic partnerships** and allied organization outreach; (2) a **research hub** to provide continual access and unite investigators across the globe; (3) **mentor development** program to support junior mentor development and coaching; and (4) **communication** with both internal members and external entities.

### Incubate

We intentionally will continue to attract, develop, value, and retain our membership because we know diversity promotes innovation and discovery. We will focus on four strategic areas: (1) **early proposals** and **access** to create low-barrier pitch opportunities; (2) **revision of ALERT process** to streamline the ALERT system for better efficiency and quality; (3) **research topic curation** based on understanding of high priority needs and gaps; and (4) a **resource hub** to provide research support services.

### Accelerate

We will leverage the rich expertise of our members to aid in quickly elevating select transformative project discoveries to be prototyped and implemented at the bedside. Three strategies to support this are: (1) development of an **accelerate program** for a comprehensive process for identifying and vetting research projects to be invited to this phase of support; (2) a **resource hub** to galvanize multicenter research; and (3) creating a **dissemination pathway** for sharing this research with the broader community.

### Optimize

A strong foundation and efficient infrastructure are vital for us to achieve our shared goals. The strategies supporting this pillar include: (1) **governance**; (2) **finances**; (3) **infrastructure**; and (4) **communication**.

We are very excited to begin the implementation of this 3-year strategic plan. There is much work to do, and we will need your help to share responsibilities and lead these collaborative efforts. We will keep you updated as we begin this process!

## Connect.

### INSPIRE Funding and Partners

INSPIRE would like to acknowledge **two anonymous individuals** whose generous philanthropic investments will support network activities and awards over the next year. We are enormously grateful to our donors!

INSPIRE would also like to acknowledge the support of partners who have provided infrastructure funding, in-kind support, and/or loaner equipment for INSPIRE studies.



Finally, INSPIRE would like to thank the Society for Simulation in Healthcare and the International Pediatric Simulation Society for providing meeting space and food to support INSPIRE meetings at their respective annual conferences.



Through generous donations, INSPIRE is able to fund our investigators to conduct innovative and impactful research. Donations are also critical to help us support the infrastructure necessary to keep INSPIRE going.

We humbly invite our community to consider an annual donation to INSPIRE to help support our network and each other. If you would like to make a donation to INSPIRE visit our website at: [Support the mission of INSPIRE – INSPIRE \(inspiresim.org\)](https://inspiresim.org) or email us at: [info@inspiresim.com](mailto:info@inspiresim.com)

## What does INSPIRE mean to you?

During our Annual Report survey, we asked members to share testimonials of how the network has supported them personally and professionally. Below are some of the testimonials we received:

I have been a member of INSPIRE since its inception, and my ongoing participation has provided me with an ever-growing network of colleagues and research partners. It has also provided me with many opportunities to grow in leadership capacity within the field of simulation. I do not think it hyperbole to say that my time with INSPIRE has profoundly shaped my career and program of research in ways too numerous to count. I highly advise all pediatric simulationists with interest in research to join and contribute.

-- Aaron Calhoun MD, Professor of Pediatrics, University of Louisville, former Co-Chair, INSPIRE, SSH Board member

Working in an LMIC like Pakistan. I had been doing simulations with my residents for about 5 years, when I found out about IPSS-INSPIRE fellowship. Just getting in touch with the experts in simulation opened up a whole new world for me. It has given me the courage to actually pursue simulation as a career goal and a way of life. Guidance from the best in business is a precious resource that has truly 'inspired' me to be the change factor and bring simulation to the forefront in health care education and systems improvement in my country.

-- Adeel Khatri FCPS CHPE, IPSS-INSPIRE Simulation Fellow, EM Residency Program Director, Indus Hospital and Health Network

Conducting research within the INSPIRE community has been one of the most positive experiences of my career. The connections made through INSPIRE have provided a wealth of expertise and knowledge that have contributed immensely to the success of our research team. Thank you INSPIRE!

-- Anonymous

Inspiring to be part of Inspire, an always energized, always supportive group with expertise, ideas and work that has inspired impactful advances across all of pediatric medicine and has made our work as individuals and teams meaningful and rewarding. Thank you.

-- Debra Weiner MD PhD, Assistant Professor of Pediatrics, Harvard Medical School

INSPIRE has helped to incubate ideas, support me through meta/peer mentorship, create structure for collaboration/authorship, find new collaborators, engage with other professions/disciplines, create lifelong friends

-- Marc Auerbach MD MSci, Professor of Pediatrics, Yale School of Medicine, Co-founder of INSPIRE, Founder of ImPACTS



# Incubate.

## IPSS-INSPIRE Fellowship: Developing simulation leaders

The IPSS-INSPIRE Pediatric Simulation Fellowship was created to sponsor and train early career investigators worldwide in simulation, exposing them to simulation related experiences and mentorship to broaden horizons, and promote excellence in education and investigative research. The goal is to build future leaders in simulation who will go on to produce a lasting impact on patient care in diverse communities.

An IPSS-INSPIRE Pediatric Simulation Fellow is based at a home institution where most of their simulation activities are conducted. Each fellow will be assigned two simulation mentors (one local mentor + one international mentor OR two international mentors, depending on the availability of local simulation expertise) to expand and enrich their learning experience. Both mentors will work together during the fellowship. Fellows will meet every two months using an online meeting platform for networking and to exchange experiences. This is now a 2-year program and involves completion of a research project. Through generous donations, the IPSS-INSPIRE fellowship is now able to provide funding for each fellow to support their project and career development through visits to international host simulation centers and sites.

Congratulations to our graduating fellows: Daniel Orqueda, MD (Argentina), Katharina Bibl, MD (Austria), Vijayanand Jamalpur, MD (India), Mahima Singh, MD (India). We can't wait to see what you will accomplish next! The incoming fellow class is listed below:

2023-2025 Fellows		
Fellow	Institution and Country	Research project
<b>Sida Ishaque MD</b> Assistant Professor	<b>The Aga Khan University Hospital</b> Pakistan	Simulation in Pediatric Critical Care Pakistan: Exploring Latent Safety Threats and Human Factors
<b>Jaun Pablo Jaldin Vasquez MD</b> Pediatric Simulation Fellow	<b>Children's Hospital of Philadelphia</b> United States (from Bolivia)	Developing an Individualized Strategy to Improve Tracheal Intubation Skills Gap Among First-Year PCCM Fellows
<b>Adeel Khatri MD</b> Residency Program Director	<b>Indus Hospital and Health Network</b> Pakistan	Low-cost Simulation-based Central Line Placement Training Module
<b>Susan Zakariah MD</b> Pediatric Emergency and Critical Care Fellow	<b>Korle Bu Teaching Hospital</b> Ghana	The utility of 'Virtual Resuscitation Room' (VRR) in improving confidence, clinical knowledge and communication among residents involved in the emergency care of children in Ghana

## ALERTs: Incubating Research Ideas

Investigators are encouraged to submit an ALERT (Advanced Look Exploratory Research Template) presentation, which is a 5-minute report out given at one of our network meetings, that encapsulates either a new simulation-based research idea, or progress in implementing an INSPIRE-based research project. Our goal is to give project feedback and provide the networking and resources needed to launch a successful single or multi-site study.

We recently expanded our ALERT types: Initial, Joint Initial, Developing, and Scale-up.



**Diverse representation in our ALERT presentations and presenters is a key step towards supporting our mission: To catalyze global simulation-based collaborative scholarship to improve pediatric health.**

For INSPIRE @ IMSH 2023, we had 12 ALERT presentations (8 Initial and 4 Developing), 3 from investigators outside of the U.S. (Pakistan and Canada).

For the Fall Virtual 2023 meeting, we had 23 ALERT presentations (19 Initial, 2 Developing, 1 Joint initial and 1 Scale-up). 13 of these were from investigators outside the U.S. (India, Pakistan, Brazil, Ghana and New Zealand).

The number of more advanced projects (S and J ALERTs) has really blossomed since the recent introduction of these ALERT types. Just under 30% of the ALERTs that were submitted at the end of 2023 (for INSPIRE@IMSH 2024) fell into these categories.

# Accelerate.

## 2023 INSPIRE Highlights: Ongoing and Completed Projects and Initiatives

### PROJECTS

**SQUIRE-SIM** - INSPIRE has assembled a group of diverse international experts in quality improvement and simulation research to conduct a consensus process with the goal of creating simulation-specific extensions for the SQUIRE 2.0 reporting guidelines. This manuscript was submitted to *Simulation in Healthcare* 12/2023.

**2023 Society for Simulation in Healthcare Research Summit** – INSPIRE members were leads for 8 of the 12 key simulation themes with many additional members serving as experts on the committees. Each group was tasked with establishing evidence-based practice guidelines in simulation and identifying gaps in research for their topic. (Mastery learning / Deliberate practice / Technical skills, Feedback / Debriefing, Team training / Nontechnical skills training, In situ training, Virtual reality / Augmented reality, Distance simulation, Faculty development, and Immersive Virtual Environments for Summative Assessment Purposes).

### INSPIRE-related research initiatives

**PEAK II and PEAK II trach**– The Prevention of Errors in Acute conditions in Kids (PEAK II) investigator group aims to utilize in situ simulation for systems testing and proactively improve the safety of healthcare systems, leading to better patient outcomes. We developed a multi-center latent safety threat (LST) database to prospectively and systematically document LSTs and collect information on outcomes of mitigation plans developed to address the LST's. The database utilizes the Systems Engineering Initiative for Patient Safety (SEIPS) 2.0 conceptual framework. Last year we added a scenario involving tracheostomy emergencies (PEAK II trach) which is led by Dr. Christina Yang. This greatly expanded our number of participating sites and site investigators to include pediatric ENT colleagues!





**Distance Simulation** - INSPIRE partnered with 33 simulation societies including IPSS, PediSTARS, SSH, and the Netzwerk Kindersimulation to develop the nomenclature of distance simulation as well as a bold research agenda. [The Healthcare Distance Simulation Collaboration](#)



- Duff J, Kardong-Edgren S, Chang TP, Elkin RL, Ramachandra G, Stapleton S, Palaganas JC, Kou M, Gross IT. Closing the gap: a call for a common blueprint for remote distance telesimulation. *BMJ Simul Technol Enhanc Learn*. 2021 Apr 12;7(4):185-187.
- Chang TP, Elkin R, Boyle TP, Nishisaki A, Walsh B, Benary D, Auerbach M, Camacho C, Calhoun A, Stapleton SN, Whitfill T, Wood T, Fayyaz J, Gross IT, Thomas AA. Characterizing preferred terms for geographically distant simulations: distance, remote and telesimulation. *Int J Healthc Simul*. 2022;1(3):55-65.
- Bajwa M, Ahmed R, Lababidi H, Morris M, Morton A, Mosher C, Wawersik D, Herx-Weaver A, Gross IT, Palaganas JC. Development of Distance Simulation Educator Guidelines in Healthcare: A Delphi Method Application. *Simul Healthc*. 2023 Jan 5.
- Ahmed, R., Bajwa, M., Lababidi, H., Morris, M., Morton, A., Mosher, C., Wawersik, D., Herx-Weaver, A., Gross, I., & Palaganas, J. (2022). Development of distance simulation educator guidelines in healthcare: A delphi method application. *Simulation in Healthcare*.
- Burido, N., Brown, K., Olmo-Ferrer, D., Friedland, R., Bailey, S., Wawersik, D., Charnetski, M., Nair, B., Kutzin, J, Gross, I., Palaganas, JC. (2023). Healthcare simulation in-person and at a distance: A systematic review. *Simulation in Healthcare*.
- Buléon C, Caton J, Park YS, Eller S, Buyck M, Kardong-Edgren S, Walsh BM, Gross IT, Maxworthy J, Reedy G, Palaganas JC. The state of distance healthcare simulation during the COVID-19 pandemic: results of an international survey. *Adv Simul (Lond)*. 2022 Apr 5;7(1):10. doi: 10.1186/s41077-022-00202-7. PMID: 35382889; PMCID: PMC8980782.
- Charnetski M, Wawersik D, Palaganas JC, Duff J, Bailey S, Ramachandra G, Birido N, Elkin R, Nair B, Thurber P, Gross I. (2023). Understanding the effects of healthcare distance simulation: A systematic review. *Simulation in Healthcare*.

**ImPACTS** – The network for Improving Pediatric Acute Care through Simulation (ImPACTS) has published its key findings in *Pediatrics* in 2023 in describing the quality of pediatric care in 175 emergency departments in North America. Additionally, ImPACTS was funded with a \$3.5 million grant from the Toyota Way Forward Fund. ([impactscollaborative.com](https://impactscollaborative.com))



- Auerbach MA, Whitfill T, Montgomery E, Leung J, Kessler D, Gross IT, Walsh BM, Fiedor Hamilton M, Gawel M, Kant S, Janofsky S, Brown LL, Walls TA, Alletag M, Sessa A, Arteaga GM, Keilman A, Van Ittersum W, Rutman MS, Zaveri P, Good G, Schoen JC, Lavoie M, Mannenbach M, Bigham L, Dudas RA, Rutledge C, Okada PJ, Moegling M, Anderson I, Tay KY, Scherzer DJ, Vora S, Gaither S, Fenster D, Jones D, Aebersold M, Chatfield J, Knight L, Berg M, Makharashvili A, Katznelson J, Mathias E, Lutfi R, Abu-Sultaneh S, Burns B, Padlipsky P, Lee J, Butler L, Alander S, Thomas A, Bhatnagar A, Jafri FN, Crellin J, Abulebda K. Factors Associated With Improved Pediatric Resuscitative Care in General Emergency Departments. *Pediatrics*. 2023 Jul 7:e2022060790. doi: 10.1542/peds.2022-060790. Epub ahead of print. PMID: 37416979.

## 2023 Research Awards: Investing in our community.

Thanks to generous donations, INSPIRE was thrilled to award funding for three new projects in 2023. Congratulations to our winners!

Projects Funded in 2023		
<b>INSPIRE Research Award</b>	<b>Benchmark Performance of Emergency Medicine in Pediatric Resuscitation</b> Dr. Kyle Schoppel and Dr. Barbara Walsh Riley Hospital for Children and Boston Medical Center	\$20,000
<b>INSPIRE Novice Investigator</b>	<b>Pauses in Chest Compressions during ECPR: Using Simulation to Determine the Cause</b> Dr. Ariel Sugarman New York Presbyterian, Morgan Stanley Children's Hospital of New York	\$7,000
<b>INSPIRE Low- and Middle-Income Country Award</b>	<b>Systems Focused Simulation for Identifying Safety Threats and Inefficiencies in Resuscitation of Acutely Destabilized Neonates in the Pediatric Emergency Room: A Simulation-based Quality Improvement Study</b> Dr. Sundaram Venkateseshan Post Graduate Institute of Medical Education and Research, Chandigarh, India	\$7,000

We also had a call for proposals for three award categories in 2023: “microawards” funding for discrete, well-defined needs to complete an ongoing project, travel awards, and research awards. The winners of these will be announced in 2024. Stay tuned!

### 2023 INSPIRE Calls for Proposals

#### “Micro-awards” slush fund

- Ongoing funding for projects
- Up to \$2,000 USD each

#### Travel Awards

- 2 travel awards to attend INSPIRE @IMSH or @IPSSW 2024
- Non-MDs and investigators from LMICs will be prioritized
  - \$3,000 USD each

#### Research Awards

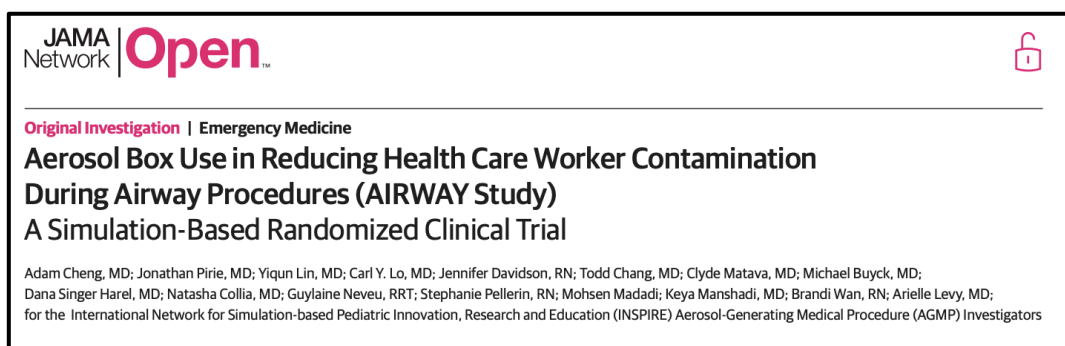
- 3 awards with priority to LMIC, non-physician teams, and novice investigators (\$10,000 USD each)
- 1 large, unrestricted research award (\$30k USD)

## Award Outcomes in 2023: Catalyzing innovation

We are so proud of our members and what they have achieved. INSPIRE has funded exciting projects over the years, supporting topics from tools during the pandemic, simulation-based approaches to diversity, equity, and inclusion, telesimulation, and much more. Here are some of the impressive outcomes from these awards.

### We are answering important research questions about how to better protect our healthcare workers:

- Cheng A, Pirie J, Lin Y, Lo C, Davidson J, Chang T, Matava C, Buyck M, Singer-Harel D, Collia N, Neveu G, Pellerin S, Madadi M, Manshadi K, Wan B, Levy A for the INSPIRE AGMP Investigators. Aerosol Box use In Reducing Healthcare Worker Contamination during Airway Procedures (AIRWAY Study): A Simulation-based Randomized Controlled Trial. JAMA Network Open. 2023; 6(4):e237894



### We are developing educational offerings that produce the most expert health care workforce:

- Dr. Noorjahan Ali's project, "Advancing Neonatal Resuscitation in a Level IV NICU" created and implemented an interprofessional resuscitation curriculum. This resulted in a decreased time to secure the airway from 12 minutes to less than five minutes. The time from the onset of chest compressions to the first dose of epinephrine has decreased to under one minute in her level IV NICU.
- Dr. Amrita Nayak examined whether virtual simulation is effective at teaching procedural skills. Her manuscript is in the final stages of preparation for publication.
  - Nayak A, Cavanaugh S, Islam S, Kim M. Just in Time Neonatal Virtual Procedural Skills Course in Times of a Pandemic. Poster presentation during PAS, Denver, CO, May 2022.
  - Nayak A, Cavanaugh S, Islam S, Kim M. Just in Time Neonatal Virtual Procedural Skills Course in Times of a Pandemic. Poster presentation at NYU Langone Research Day, New York, NY, April 2022.



### **We are using technology to innovate new research methods:**

- Bibl K, Gross IT, Gröpel P, Cardona F, Whitfill T, Auerbach M, Kadhim B, Berger A, Wagner M. Quantifying the effect of visual distraction on neonatal ventilation using eye-tracking. Poster Presentation during the International Pediatric Simulation Society (IPSS) Annual Meeting, Lisbon, Portugal, May 2023.
- Bibl K, Wagner M, Groepel P, Olischar M, Auerbach MA, Gross IT. Eye-tracking during simulation-based neonatal airway management. Poster presentation during the International Meeting on Simulation in Healthcare (IMSH) annual meeting, Los Angeles, January 2022.
- Bibl K, Gross IT, Kadhim B, Auerbach M, Whitfill T, Wagner M. Quantifying the impact of visual distraction on neonatal ventilation using eye-tracking in a simulated setting. Poster presentation during the International Pediatric Simulation Symposium (IPSS), virtual meeting, September 2021.
- Manuscript is in the final stages of preparation for publication.

### **We are evolving health care delivery models to transform the patient experience through better communication and health equity:**

- Lang B, Cramer A, and Remick K. Uptake of Bereavement Principles Among a Diverse Cohort of EMS Providers Using the COPE Curriculum: A Simulation-Based Approach. Presentation, University of Texas/Dell Children's Research Day, April 2023.
- Lang B, Cramer A, and Remick K. Uptake of Bereavement Principles Among a Diverse Cohort of EMS Providers Using the COPE Curriculum: A Simulation-Based Approach. Presentation, Pediatric Academic Society, April 2023.
- Lang B, Cramer A, and Remick K. Uptake of Bereavement Principles Among a Diverse Cohort of EMS Providers Using the COPE Curriculum: A Simulation-Based Approach. Presentation, Texas EMS Conference, November 2022.
- Lang B, Cramer A, and Remick K. Uptake of Bereavement Principles Among a Diverse Cohort of EMS Providers Using the COPE Curriculum: A Simulation-Based Approach. Presentation, National Association of EMS Physicians, November 2022.
- Ewulonu U et al. Fostering Equity and Allyship Through Simulation. PHM Annual Conference: workshop, July 2022, Orlando, FL.
- Ewulonu U et al. Fostering Equity and Allyship Through Simulation. APPD Annual Spring Conference: workshop, March 2023, Atlanta, GA.
- Ewulonu U et al. Fostering Equity and Allyship Through Simulation. IPSS Conference, workshop, May 2023. Lisbon, Portugal.

## 2023 INSPIRE Scholarly Impact

### ~\$6.1M in Funding and Support for INSPIRE Collaborators

You are amazing! Funding support across our membership is up by \$4.8M from last year, a reflection of the rising recognition of the potential for simulation-based research to advance knowledge with broader translational impacts to our patients.

#### Project and Funding Agency

**Title:** Increasing access to high quality emergency care for pediatric patients with severe head injuries in rural and underserved communities in MI and TX.

**PIs:** Marc Auerbach, Elizabeth Sanseau

**Funded by:** Toyota Way Forward Fund

**Amount:** \$3.5 million USD

**Title:** R Baby Improving Pediatric Acute Care through Simulation

**PI:** Marc Auerbach

**Funded by:** Rbaby foundation

**Amount:** \$75,000 USD per year

**Title:** AR-Screen: Development of a Decision Support System for Cardiac Arrest

**PI:** Adam Cheng

**Funded By:** Alberta Children's Hospital Research Institute, Department of Pediatrics, and Alberta Children's Hospital Foundation

**Funding Dates:** July 1, 2023 – June 30, 2025

**Amount:** \$250,000 CAD

**Title:** Development and Multicentric Evaluation of an Augmented Reality and Screen-based Decision Support System for Cardiopulmonary Arrest: An International Project

**PI:** Adam Cheng

**Funded By:** HUG Foundation

**Funding Dates:** July 1, 2023 – June 30, 2025

**Amount:** \$292,000 CAD

**Title:** Design and Development of an Augmented Reality Decision Support System for Cardiopulmonary Arrest

**PI:** Adam Cheng

**Funded By:** University of Calgary Clinical Research Fund Grant

**Funding Dates:** March 1, 2023 – Feb 28, 2024

**Amount:** \$10,000 CAD

**Title:** Impact of aerosol box use during cardiopulmonary arrest: A multicenter, randomized trial

**PI:** Adam Cheng

**Funded By:** Canadian Institutes of Health Research – Project Grant

**Funding Dates:** March 1, 2023 – Feb 28, 2026

**Amount:** \$478,126 CAD

**Title:** Design and Development of an Augmented Reality Decision Support System for Cardiopulmonary Arrest

**Funded By:** NSERC Alliance – Alberta Innovates Advance Program

**Funding Dates:** March 1, 2023 – Feb 28, 2025

**Funding Amount:** \$38,000

**Title:** An innovative instructional design model to improve delivery of bad or difficult news for PGY-2 residents across multiple specializations.

**PI:** Timothy C. Clapper, PhD

**Funded by:** NewYork-Presbyterian Patient Experience Physician Council

**Amount:** \$25,000.00 USD

**Title:** Validity Argument for the Cognitive Load Assessment Scales in Simulation (CLAS-Sim) Germane Load Scale: A Mixed-Methods Study of Learning Outcomes.

**PI:** Greer S, Sewell J, Spies R, Manga A, Calhoun AW, Emke A, Jeffe B.

**Funded by:** Central Group on Educational Affairs

**Amount:** \$5,000 USD

**Title:** Implementation of a novel high fidelity low-cost point-of-care ultrasound technology to in-situ pediatric simulation in the emergency department: An exploratory survey study.

**Team:** M Harel-Sterling, D Singer-Harel, H Katz-Dana, E Thau, P Olszynski, J Pirie

**Funded by:** Paediatric Consultant Education Grant, Sickkids.

**Amount:** \$5,000 CAN

**Title:** Establishing Bi-Directional Communication Network to a Historically Marginalized Community.

**PI:** Kim I, Calhoun AW.

**Funded by:** Pediatric Pandemic Network.

**Amount:** \$50,000 USD

\$10,000 USD

**Title:** Preventing workplace violence in healthcare: situational awareness and de-escalation virtual reality training

**PI:** Tensing Maa

**Funded by:** Ohio Bureau of Workers' Compensation

**Amount:** \$938,190 USD

Dates: 7/2023-6/2024

**Title:** Development of a simulation device for training in Continuous renal replacement techniques.

**PI:** Santiago Mencía.

**Funded by:** Carlos III Health Institute

**Amount:** \$80,000 USD

**Title:** Does sex of a victim character affect learner performance in a simulated cardiopulmonary resuscitation scenario?

**PI:** Pooja Nawathe

**Funded by:** Center for Research in Women's Health

**Amount:** \$30,000 USD

**Title:** Use of simulation for interprofessional education and competency assessment for pediatric residents

**PI:** Pooja Nawathe

**Funded by:** Mailman Foundation

**Amount:** \$50,000 USD

**Title:** Indian Health Services ImPACTS grant

**PI:** Elizabeth Sanseau

**Funded by:** HRSA  
**Amount:** \$250k per year

**Title:** Pauses In Chest Compressions During ECPR: Using Simulation To Determine The Cause  
**PI:** Dr. Ariel Sugarman (PI), Columbia University Irving Medical Center

**Funded by:** INSPIRE  
**Amount:** \$7,000

**Title:** TRACK-PEDS: Team Reflexivity in ATLS Concepts and Knowledge in Pediatric Trauma  
**Team:** Andrea Vo, Cara Doughty, Daniel Lemke, Bram Welch-Horan  
**Funded by:** Texas Children's Hospital and Baylor College of Medicine Department of Pediatrics Educational  
**Amount:** \$25,000

**Title:** Benchmark Performance of Emergency Medicine Residents in Pediatric Resuscitation: Are We Optimizing Pediatric Education for Emergency Medicine Trainees?  
**PI:** Barbara Walsh, Kyle Schoppel  
**Funded by:** INSPIRE  
**Amount:** \$20,000 USD

**Title:** Improving Trauma Informed Care with Regard to Human Trafficking in Pediatric Residents.  
**PI:** Warnick N, Mittel O, Calhoun AW.  
**Funded by:** University of Louisville Department of Pediatrics  
**Amount:** \$900 USD

## Abstracts

1. Abulebda K, Right care, Right place, every time, Improving Pediatric Acute Care Through Simulation (ImPACTS), Region V for Kids Quarterly meeting, Aug 12, 2023, Hyatt Regency, Cleveland, OH.
2. Adler M, Calhoun A Assessment of Cognitive Load: A Case Study. Co-Facilitator, Panel Discussion at the International Meeting on Simulation in Healthcare, Orlando, FL Jan 2023.
3. Adler, M. Types of simulation research and basic quantitative study design. [Online presentation]. Society for Simulation in Healthcare Virtual Scholars Program. Mar 2023.
4. Arteaga GM, Abulebda K, Anderson IM, Rozenfeld R, Montgomery E, Scherzer DJ, Umoren RA, Gleich S, Kaur S, Wing R, Pearson K, Carreiro P, Kennedy C, Manga A, Maloney L, McKissic D, Anger D, Hulfish E: Standardized Practice Guideline Application in the Assessment of Multi-Center Pediatric Critical Care Transport Team Performance American Academy of Pediatrics: Washington DC AAP Experience National Conference 2023.
5. Barlow K, Porter J, Jones F, Bohnert C, Ziegler C, Lyons K, Hanson A. Difficult Conversations: Addressing Microaggressions in Healthcare. Research Symposium, University of Louisville, Louisville, KY June 2023.
6. Bergman, C.M., Thomas, C., Clapper, T.C., Nellis, M., Yuen, A., Gerber, L., & Ching, K. A simulation-based discharge education program for caregivers of children with tracheostomies: A mixed method study on patient outcomes and parental preparedness.(Research Coach). Accepted research poster at Pediatric Academic Societies (PAS) 2023, 29 April 2023.

7. Brophy A, Johnson M, Miller L, Ogunleye O, Camacho C, Maa T. Utilization of simulation to safely launch a maternal fetal medicine program at a Children's Hospital. Oral presentation at 15th International Pediatric Simulation Symposia and Workshops, May 18, 2023, Lisbon, Portugal.
8. Campisi C, Li D, Tank A, Goto L, Tawfik M, Kelly Z, Cai R, Chickmagalur S, Rinke ML, Yang CJ. Implementation and Comparison of Tracheostomy Care Curricula for Pediatric Residents. SENTAC. Dec 3, 2022. Philadelphia, PA.
9. Clapper, T.C. (2022). Theory and curriculum design in simulation-based medical education: The educational theories and curriculum design. 14th Chang Gung International Medical Education Conference (CGIMEC 2022), Taiwan.
10. Collia N, J Pirie, et al. Simulation-Based Evaluation of a new Video Laryngoscope Intubation Validation Tool. International Pediatric Simulation Society Conference, Lisbon, May 2023. (Oral Presentation).
11. Cuzzolina J, Garland J, Wong R, Grein J, Nawathe P. Simulation as a Quality Improvement Tool to Facilitate Training and Protocol development for the Special Pathogens Program. 23rd International Meeting on Simulation in Healthcare (IMSH 2023), Orlando, Florida.
12. Fayyaz J, Kats-Dana H, Pirie J, et al. Neonatal Emergency Readiness Project (NERP): Development of asynchronous virtual simulation curriculum to improve emergency department neonatal resuscitation care among interprofessional teams. SIM Expo (Poster) Oct 2022.
13. Fenberg R, Shah SJ, Li D, Campisi C, Schiff E, Yang CJ. Validation of a Scoring Tool used for Administering In-Situ Simulations of Pediatric Tracheostomy Emergencies. ASPO. May 5-7, 2023. Boston, MA.
14. Furlong-Dillard J, Abdalebda 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) 34th Annual Conference, September 2023.
15. Garland G, Cuzzolina J, Dodd B, Grein J, Metcalfe Smith R, Nawathe P. An innovative infection control training approach using immersive 360 video for special pathogens patient care in a biocontainment unit (BCU) setting at an Academic Medical Center in Los Angeles. International Conference on Prevention and Infection Control 2023. Antimicrob Resist Infect Control 12 (Suppl 1), 81 (2023).
16. Hassan B, Kelly Z, Li D, Schiff E, Tawfik M, Bangar M, Schiff B, Yang CJ. Identifying Latent Safety Threats Using an In Situ Simulation-Based Adult Tracheostomy Care Quality Improvement Model. AAO-HNS Simulation Showcase. Sept 12, 2022. Philadelphia, PA.
17. Hon,K.,Li,K.,Shin,R.,Clapper,T.ResusciSim: An Inter-facility Simulation-based Emergency Medicine Boot Camp.The Lang Center for Research and Education,NewYork-Presbyterian -Queens Residents and Fellows Research Day.
18. Huber, L., Bishop, R., Flood, S., Good, R., Nichols, C., Walsh, K. "Evaluation of a Novel Simulation Rotation for Pediatric Residents to Teach Crisis Resource Management Skills." Pediatric Academic Societies Meeting. Washington, D.C. April 2023. Poster.
19. Huber, L., Bishop, R., Flood, S., Good, R., Nichols, C., Walsh, K. "Evaluation of a Novel Simulation Rotation for Pediatric Residents to Teach Crisis Resource Management Skills." Association of Pediatric Program Directors (APPD). Atlanta, GA. March 2023. Poster.
20. Kopp T, Hanson A. Stress Innoculation Training for Procedural Performance. Presentation and Workshop. International Meeting for Simulation in Healthcare, Orlando, FL January 2023.



21. Maa T, Schaffner B, Luna J, Reese J, et al. Evaluation of a Virtual Reality Training on Therapeutic Crisis Intervention for Behavioral Health Staff. Poster presentation at 15th International Pediatric Simulation Symposia and Workshops, May 17, 2023, Lisbon, Portugal.
22. Mangold K, Trainor J, Jain P, Adler M. Using Simulation for Resident Assessment: Reflection Across Twelve Years of Experience. International Pediatric Simulation Symposia & Workshops. Lisbon, Portugal May 2023.
23. Mencía S. Faculty at the Pediatric Simulation Lab Workshop. EAPS Congress. Barcelona October 9-10, 2022.
24. Mencía S. Faculty at the Pediatric Simulation Lab Workshop. 7th Critical Care Meeting SHOCK 2023. Madrid April 19-21, 2023.
25. Montgomery E, Sanseau E, Abulebda K, "The ImPACTS Program: Past, Presence, and Future" Seventh Annual Tristate Regional Simulation Symposium scheduled for June 02, 2023, Virtual Meeting, Oral Presentation. Mount Saini.
26. Montgomery E, Reames S, Abulebda K, Toyota Way Forward Fund Summit. Invited speaker for Research Update. June 29th. Plano TX
27. Nassar M, Yang CJ, Johnson KE, Myer CM, Rickert SM, Challenging airway bronchoscopy: Do's and don'ts for a successful procedure. AAO-HNSF. Sept 11, 2022. Philadelphia, PA.
28. Norris K, Holmes S, Momin Z, Hwu R, Waters K, and Okonye J. Utilizing Simulation-Based Learning to Improve Learner Confidence and Competence in Medical Resuscitations. Southern Regional Meetings 2023, Academic Pediatric Association Workshop; New Orleans, LA; February 3, 2023
29. Prickett K, Ottenstein L, Sebelik M, Yang CJ. Simulation for Patients and Caregivers: A New Path to Tracheostomy and Laryngectomy Safety. AAO-HNSF. Sept 11, 2022. Philadelphia, PA.
30. Rogers T, Halling C, Conroy S, Bapat R, Maa T. Pilot RCT for repetitive simulation vs standard debrief on an interprofessional NICU team's clinical performance when managing the acutely desaturated, intubated patient. Poster presentation at Pediatric Academic Societies Meeting,
31. Schafer, K. M., & Kremer, M. (2023, March 20). Simulation overview [60-minute workshop]. RUSH College of Nursing Faculty Development Committee, Chicago, IL.
32. Schafer, K. M., Lawrence, C., & Mohr, L. (2023, March 8-11). Simulation professional development for students: Adding value to the pediatric and neonatal CNS role [Podium Presentation]. National Association of Clinical Nurse Specialists 2023 Annual Conference, Portland, OR.
33. Schafer, K. M., Kopal, A., & Boardman, S. (2023, June 14-17). Development of simulation-based pediatric clinical for prelicensure nursing students [Poster presentation]. International Nursing Association for Clinical Simulation and Learning 2023 Annual Conference, Providence, RI.
34. Schiff E, Tawfik M, Dimattia D, Frascione M, Bajaj K, Yang CJ. Barriers and Facilitators to checklist development for pediatric tracheostomy emergency scenarios. 12th Annual Academic Pediatric Association Quality Improvement Research Conference. April 28, 2023. Washington, DC.
35. Schremmer, Robert, MD; Ausmus, Andrew MD; Ahluwalia, Tania, MD; McLuckie, Aiden; and Stoner, Alyssa MS, DO. #SimEscape 2023 Workshop. Workshop. International Pediatric Simulation Society Symposia and Workshops, Lisbon, Portugal. May 2023.
36. Sobana R, "Role of standardised patients in skills teaching" guest lecture , SSH Simulation Society in Healthcare, August 7th 2023.

37. Sobana R, Dinker R Pai, Role of Standardized patients in teaching AETCOM skills. Poster. MEDUCON, JIPMER, Puducherry, India, September 29, 2023
38. Sterling Harel D, Lin J, Cheng A...J Pirie. Impact of aerosol box on healthcare provider workload during simulated aerosol generating medical procedures. International Pediatric Simulation Society Conference, Lisbon, May 2023. (Oral Presentation).
39. Stone A, Gorthey SW, Cao A, Yang CJ. Video demonstration vs puzzle for rigid bronchoscope assembly training. SENTAC. Dec 2-4, 2022. Philadelphia, PA.
40. 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.
41. Vohsing L, Camacho C, Maa T. Integrating a novel TPIAT program at Nationwide Children's Hospital. Oral presentation at 15th International Pediatric Simulation Symposia and Workshops, May 18, 2023, Lisbon, Portugal.
42. Barbara M Walsh, MD, Marc Auerbach, MD, Manu Madlock, MD, Grace Ortega, MD, DJ Scherzer, MD, Marc Cicero, MD, and Maricar Diaz, MD. Developing and debriefing pediatric trauma simulation: A train the trainer course. Invited workshop to 2022 Pediatric Trauma Society Meeting. Portland, OR.2022
43. Barbara M Walsh, MD, Marc Auerbach, MD, Manu Madlock, MD, Grace Ortega, MD, DJ Scherzer, MD, Marc Cicero, MD, and Maricar Diaz, MD. Are you Prepared for a Disaster? Use Simulation for Pediatric Disaster Triage. Invited workshop to 2022 Pediatric Trauma Society Meeting. Portland, OR.
44. Weiner DL, Alfonso N, Ali N, Dadiz R, Halamek LP, Lindley K, Loprieato J, Mehta R, Moussa A, Smith MO, Tanaka LY, Wolbrink T, Wolfe H, Zargham S, Stavroudis T, White ML Debriefing Simulated vs. Actual Clinical Events: Similarities and Differences. International Pediatric Simulation Society Workshop (IPSSW). Poster. Lisbon, Portugal, May 2023
45. Yang CJ, Maa T, Harwayne-Gidansky I, Fortunov R, PEAK-II Investigators, Nishisaki A. PEAK-II Trach (J-Alert). International Network for Simulation-based Pediatric Innovation, Research, & Education (INSPIRE) Virtual Fall Meeting. Sept 14, 2023.
46. Yang CJ, Cassel-Choudhury G. Harnessing In Situ Simulation as a Quality Improvement Tool. INSPIRE Novice Simulation Research Seminar. June 1, 2023. Virtual.
47. Yang CJ, Thompson D, Hinni M, Faucett E. Combating Implicit Bias in Healthcare: Simulation and Panel Discussion. AAO-HNSF. Sept 13, 2022. Philadelphia, PA.
48. Yang CJ, Deutsch E. Lunch with the Experts: Using Simulation as a Quality Improvement and Patient Safety Tool. AAO-HNSF. Sept 11, 2022. Philadelphia, PA.
49. Zanno A, Melendi M, Cutler A, Gabrielson S, Piro S, Gilbert A, Chipman M, Mallory L, Holmes J, Ottolini M, Ferguson M, Craig A, on behalf of the MOOSE Research Team. A Novel Telesimulation Program, Maine Ongoing Outreach Simulation Education (MOOSE), Improves Teamwork and Communication in a Rural Hospital. Oral Presentation. International Meeting on Simulation in Healthcare, January 25, 2023, Orlando, FL.

## Peer-Reviewed Publications

1. Abelairas-Gómez C, Carballo-Fazanes A, Chang TP, Fijačko N, Rodríguez-Núñez A. Is the AED as intuitive as we think? Potential relevance of "The Sound of Silence" during AED use. *Resusc Plus*. 2022 Nov 2;12:100323. doi: 10.1016/j.resplu.2022.100323. eCollection 2022 Dec. PMID: 36386767.
2. Abelairas-Gómez C, Carballo-Fazanes A, Martínez-Isasi S, López-García S, Rodríguez-Núñez A. An effort to reduce chest compression pauses during automated external defibrillator use among laypeople: A randomized partially blinded controlled trial. *Resusc Plus*. 2023 May 8;14:100393. doi: 10.1016/j.resplu.2023.100393. eCollection 2023 Jun. PMID: 37207261.
3. Ahmedli NN, Ngo M, Yang Greenberg C, Schiff E, Chambers T, Patel R, Vivek K, Straker T, Yang CJ. Gender, hierarchy and implicit bias: An interdisciplinary pilot simulation study. *MedEdPublish*. 2023 Sept;13:128. <https://doi.org/10.12688/mep.19711.1>
4. Ahmed, R., Bajwa, M., Lababidi, H., Morris, M., Morton, A., Mosher, C., Wawersik, D., Herx-Weaver, A., Gross, I., & Palaganas, J. (2022). Development of distance simulation educator guidelines in healthcare: A delphi method application. *Simulation in Healthcare*.
5. Alansari, R., Lim, P. W., Ramani, S., & Palaganas, J.C. (2023). What Do You Think of When You Hear the Word "Feedback"? A Reflective Thematic Analysis Study of Interviews. *The Clinical Teacher*.
6. Alsaedi H, Berrens ZJ, Lutfi R, Weinstein E, Montgomery EE, Pearson KJ, Kirby ML, Abu-Sultaneh S, Abulebda K, Thammasitboon S. Simulation-based assessment of care for an infant with cardiogenic shock in the emergency department. *Nurs Crit Care*. 2023 May;28(3):353-361. doi: 10.1111/nicc.12716. Epub 2021 Oct 26. PMID: 34699685.
7. Aranda-García S, Barrio-Cortes J, Fernández-Méndez F, Otero-Agra M, Darné M, Herrera-Pedroviejo E, Barcala-Furelos R, Rodríguez-Núñez A. Dispatcher-assisted BLS for lay bystanders: A pilot study comparing video streaming via smart glasses and telephone instructions. *Am J Emerg Med*. 2023 Sep;71:163-168. doi: 10.1016/j.ajem.2023.06.035. Epub 2023 Jun 28. PMID: 37418840.
8. Aranda-García S, Otero-Agra M, Fernández-Méndez F, Herrera-Pedroviejo E, Darné M, Barcala-Furelos R, Rodríguez-Núñez A. Augmented reality training in basic life support with the help of smart glasses. A pilot study. *Resusc Plus*. 2023 Apr 18;14:100391. doi: 10.1016/j.resplu.2023.100391. eCollection 2023 Jun. PMID: 37128627.
9. Aranda-García S, Santos-Folgar M, Fernández-Méndez F, Barcala-Furelos R, Pardo Ríos M, Hernández Sánchez E, Varela-Varela L, San Román-Mata S, Rodríguez-Núñez A. "Dispatcher, Can You Help Me? A Woman Is Giving Birth". A Pilot Study of Remote Video Assistance with Smart Glasses. *Sensors (Basel)*. 2022 Dec 30;23(1):409. doi: 10.3390/s23010409. PMID: 36617008.
10. Auerbach MA, Whitfill T, Montgomery E, Leung J, Kessler D, Gross IT, Walsh BM, Fiedor Hamilton M, Gawel M, Kant S, Janofsky S, Brown LL, Walls TA, Alletag M, Sessa A, Arteaga GM, Keilman A, Van Ittersum W, Rutman MS, Zaveri P, Good G, Schoen JC, Lavoie M, Mannenbach M, Bigham L, Dudas RA, Rutledge C, Okada PJ, Moegling M, Anderson I, Tay KY, Scherzer DJ, Vora S, Gaither S, Fenster D, Jones D, Aebersold M, Chatfield J, Knight L, Berg M, Makharashvili A, Katznelson J, Mathias E, Lutfi R, Abu-Sultaneh S, Burns B, Padlipsky P, Lee J, Butler L, Alander S, Thomas A, Bhatnagar A, Jafri FN, Crellin J, Abulebda K. Factors Associated With Improved Pediatric Resuscitative Care in General Emergency Departments. *Pediatrics*. 2023 Jul 7:e2022060790. doi: 10.1542/peds.2022-060790. Epub ahead of print. PMID: 37416979.

11. Bajwa M, Ahmed R, Kutzin JM, Palaganas JC, Park YS. (2023). Exploring Technological Competencies of Distance Simulation Educators: A Nominal Group Consensus Using a Mixed Methods Approach. *Teaching and Learning in Nursing*.
12. Bajwa M, Ahmed R, Lababidi H, Morris M, Morton A, Mosher C, Wawersik D, Herx-Weaver A, Gross IT, Palaganas JC. Development of Distance Simulation Educator Guidelines in Healthcare: A Delphi Method Application. *Simul Healthc*. 2023 Jan 5. doi: 10.1097/SIH.0000000000000707. Epub ahead of print. PMID: 36598821.
13. Bajwa, M.\*, Palaganas, J., Ahmed, R., Seibold-Simpson, S. (2023). Prioritizing Healthcare Distance Simulation Educators' Technological Competencies: Descriptive Analysis of Qualitative Interviews. *International Journal of Healthcare Simulation*. doi 10.54531/EBTN3915
14. Barcala-Furelos R, Izquierdo V, Gómez-Silva A, Vázquez-Álvarez S, Rodríguez-Nuñez A. Infant cardiopulmonary resuscitation from the wheelchair. Is it feasible and worthwhile? *Resusc Plus*. 2023 Aug 4;15:100440. doi: 10.1016/j.resplu.2023.100440. eCollection 2023 Sep. PMID: 37560757.
15. Bibbens S, Lam A, Lam F, Bastero P, Lasa J, Doughty C. Pediatric Cardiopulmonary Resuscitation Quality during Simulation of In-Hospital Transport. Published online, *International Journal of Healthcare Simulation*, July 2023. <https://www.ijohs.com/article/doi/10.54531/pcts1722>.
16. Bokka, L., Ciuffo, F., & Clapper, T.C. Systemized review. Why simulation matters: a systematic review on medical errors occurring during simulated healthcare. Accepted research article. *Journal of Patient Safety*.
17. Breckwoldt J, Lockey A, Cheng A, Greif R et al. Stepwise Approach to Skills Teaching in Resuscitation: A Systematic Review. *Resuscitation Plus*. 2023; 16:100457.
18. Burido, N., Brown, K., Olmo-Ferrer, D., Friedland, R., Bailey, S., Wawersik, D., Charnetski, M., Nair, B., Kutzin, J, Gross, I., Palaganas, JC. (2023). Healthcare simulation in-person and at a distance: A systematic review. *Simulation in Healthcare*.
19. Buleon, C., Caton, J., Walsh, B., Ramachandra, G., Stapleton, S., Duff, J., Calhoun, A., Wagner, M., Elkin, R., Gross, I., & Palaganas, J.C. (2022). Characteristics of distance simulation during COVID19: A report of a large-scale survey. *Simulation in Healthcare*.
20. Buléon C, Caton J, Park YS, Eller S, Buyck M, Kardong-Edgren S, Walsh BM, Gross IT, Maxworthy J, Reedy G, Palaganas JC. The state of distance healthcare simulation during the COVID-19 pandemic: results of an international survey. *Adv Simul (Lond)*. 2022 Apr 5;7(1):10. doi: 10.1186/s41077-022-00202-7. PMID: 35382889; PMCID: PMC8980782.
21. Corazza F, Arpone M, Tardini G, Stritoni V, Mormando G, Graziano A, Navalesi P, Fiorese E, Portalone S, De Luca M, Binotti M, Tortorolo L, Salvadei S, Nucci A, Monzani A, Genoni G, Bazo M, Cheng A, Frigo AC, Da Dalt L, Bressan S. PediAppRREST – Effectiveness of a novel tablet application in reducing guideline deviations during pediatric cardiac arrest – a randomized clinical trial. *JAMA Network Open*. 2023; 6(8):e2327272.
22. Calhoun AW, Gross IT, Mallory LB, Shepard LN, Adler MD, Maa T, Auerbach MA, Cheng A, Kessler DO, Whitfill TM, Duff JP. From Concept to Publication: Effectiveness of the International Network for Simulation-Based Pediatric Innovation, Research, and Education Project Development Process at Generating Simulation Scholarship. *Simul Healthc*. 2022 Dec;17(6):385-393. Dec 27. PMID: 34966128
23. Cardalda-Serantes B, Carballo-Fazanes A, Rodríguez-Ruiz E, Abelairas-Gómez C, Rodríguez-Núñez A. Would anti-choking devices be correctly and quickly managed by health science students? A manikin crossover trial. *BMC Med Educ*. 2023 May 23;23(1):365. doi: 10.1186/s12909-023-04345-7. PMID: 37221498.

24. Chang TP, Elkin R, Boyle TP, Nishisaki A, Walsh B, Benary D, Auerbach M, Camacho C, Calhoun A, Stapleton SN, Whitfill T, Wood T, Fayyaz J, Gross IT, Thomas AA. Characterizing preferred terms for geographically distant simulations: distance, remote and telesimulation. *Int J Healthc Simul.* 2022;1(3):55-65. doi: 10.54531/dwti2869. Epub 2022 Jul 3. PMID: 36458206; PMCID: PMC9710245.
25. Charnetski M, Wawersik D, Palaganas JC, Duff J, Bailey S, Ramachandra G, Birido N, Elkin R, Nair B, Thurber P, Gross I. (2023). Understanding the effects of healthcare distance simulation: A systematic review. *Simulation in Healthcare.*
26. Cheng A, Davidson J, Wan B, St-Onge-St-Hilaire A, Lin Y. Data-informed debriefing for cardiopulmonary arrest: A randomized controlled trial. *Resuscitation Plus.* 2023; 100401.
27. Cheng A, Pirie J, Lin Y, Lo C, Davidson J, Chang T, Matava C, Buyck M, Singer-Harel D, Colia N, Neveu G, Pellerin S, Madadi M, Manshadi K, Wan B, Levy A for the INSPIRE AGMP Investigators. Aerosol Box use In Reducing Healthcare Worker Contamination during Airway Procedures (AIRWAY Study): A Simulation-based Randomized Controlled Trial. *JAMA Network Open.* 2023; 6(4):e237894
28. Cheng A, Bhanji F, Lockey A, Nabecker S, Greif R. Shaping the Future: Pressing Needs for Resuscitation Education Research. *Resuscitation Plus.* 2023; 13:100353.
29. Chipman M, Schreiber C, Fey J, Lane S, DiLisio C, Mallory L. Engagement across professions: A mixed methods study of debriefing after interprofessional team training. *Simul Healthc.* 2023 Jul 5. doi: 10.1097/SIH.0000000000000736. Epub ahead of print. PMID: 37440428.
30. Cicero MX, Baird J, Brown L, Auerbach M, Adelgais K. Frequency, Type, and Degree of Potential Harm of Adverse Safety Events among Pediatric Emergency Medical Services Encounters. *Prehosp Emerg Care.* 2023 Sep 12:1-7. doi: 10.1080/10903127.2023.2257775. Online ahead of print. PMID: 3769835.
31. Cicero MX, Baird J, Adelgais K, Brown L, Auerbach M. Emergency Medical Services Provider Acceptance of and Attitudes About Pediatric SimBox Simulations. *Pediatric Emergency Care* 2022, 38: e1655-e1659. PMID: 35353772, DOI: 10.1097/pec.0000000000002678.
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33. Corazza F, Fiorese E, Arpone M, Tardini G, Cheng A, Frigo AC, Da Dalt L, Bressan S. The impact of cognitive aids on resuscitation performance in in-hospital cardiac arrest scenarios: a systematic review and meta-analysis. *Internal and Emergency Medicine.* 2022; 17(7):2143-2158.
34. Dowell S, Bajwa M, Charnetski M, Lababidi H, Vora S, Herrera ED, Park YS, Palaganas J. Principles of Justice, Equity, Diversity and Inclusion in Healthcare Distance Simulation Education – Consensus building via the Nominal Group Technique. (2023). *Academic Medicine,* July, <http://dx.doi.org/10.1097/ACM.0000000000005317>
35. Dowell, S., Charnetski, M. & Palaganas, J.C. (2022) Cultural Considerations in IPE: A Systematic Review. *Journal of Research in Interprofessional Practice and Education.*
36. Elkin R, Duff JP, LaForest ML, Stapleton S, Ramachandra G, Palaganas JC, Gross IT. Distance simulation in the health professions: a scoping review. *Adv Simul (Lond).* 2023 Nov 17;8(1):27. doi: 10.1186/s41077-023-00266-z. PMID: 37978416; PMCID: PMC10656877.
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- emergency medicine. *AEM Educ Train*. 2023 Nov 22;7(6):e10908. doi: 10.1002/aet2.10908. PMID: 37997591; PMCID: PMC10664395.
38. Feick M, Iqbal A, Boolchandani H, Kandil S, Johnston L, Soma G, Cordone A, Auerbach M, Tiyyagura G. A quality improvement approach to integrating social determinants of health objectives into pediatric simulation. *AEM Education And Training* 2023, 7: e10910. PMID: 37791136, PMCID: PMC10543355, DOI: 10.1002/aet2.10910.
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## Other Publications

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2. Hanson AL, Calhoun AW. Healthcare Simulation Methods: A Multi-Faceted Approach. In Vincenzi D, Moulousa M, Hancock PA, Pharmer JA, Ferarro JC (ed). *Human Factors In Simulation and Training*. CRC press/Taylor and Francis, 2023
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# Optimize.

## Current Executive Committee Members

### 2023-2024 Executive Board



Tensing Maa, MD  
Co-Chair



Kim Stone, MD  
Past Co-Chair



Jon Duff, MD  
Incoming Co-Chair



Travis Whitfill, MPH  
Treasurer



Kasey Davis, MD



Jabeen Fayyaz,  
MD



Isabel Gross, MD



Priti Jani, MD



Pooja Nawathe, MD



Normaliz  
Rodriguez, MD



Anita Thomas, MD



Barbara Walsh, MD



Bram Welch-Horan, MD



Hillary Woodward, MS,  
CCLS



Rachel Elkin  
Junior Director

## INSPIRE Advisory Committee

Special thanks to our members serving in the senior role as advisors to the executive committee. The advisory committee is available in an ad hoc fashion to consult for and support the network on important matters.

- Mark Adler MD, Feinberg School of Medicine, USA
- Jennifer Arnold MD, Boston Children's Hospital, USA
- Marc Auerbach MD, MSci, Yale University, USA
- Aaron Calhoun MD, University of Louisville, USA
- Todd Chang MD, MAcM Children's Hospital of LA, USA
- Adam Cheng MD, Alberta Children's Hospital, Canada
- Cara Doughty MD, Texas Children's, USA
- David Grant MBChB, MRCPCH, FFICM, University of Bristol, UK
- Elizabeth Hunt MD, PhD, MPH, John Hopkins Children's Center, USA
- David Kessler, MD MSci, Columbia University, USA
- Ralph Mackinnon MD, Royal Manchester Children's Hospital, UK
- Vinay Nadkarni MD, MS, Children's Hospital of Philadelphia, USA
- Akira Nishisaki MD, MSCE, Children's Hospital of Philadelphia, USA
- Martin Pusic MD, PhD, New York University School of Medicine, US

## Committees, Roles, and Positions

### Executive Committee

Role and suggested exec member	Description	Roles/activities	Selection process
<b>Network Co-chairs</b>  Tensing Maa Jon Duff Kimberly Stone	The Co-chairs of the INSPIRE network are charged with maintaining the overall mission and vision of INSPIRE by overseeing and guiding the activities of the Executive Board and Scientific Review Committee. Once elected, co-chairs will serve for 2 years, followed by an additional mandatory year on the Exec Board afterward in an ex-officio position. The specific role of this position is Leadership Development.	<ul style="list-style-type: none"> <li>• Oversight of all current network activities with the goal of maintaining alignment with network mission, vision, and ethos/values.</li> <li>• Development/organization and leadership of core network research endeavors.</li> <li>• Decision-making, in collaboration with the Executive Committee, regarding new network initiatives and activities</li> <li>• Oversight of the financial status and health of INSPIRE</li> <li>• Carrying out (with the assistance of the Executive Committee) decisions made by the Executive Committee</li> <li>• Scheduling and chairing the monthly Executive Committee conference calls.</li> <li>• Establishing and maintaining collaborative relationships with other entities.</li> <li>• Identification and mentorship of potential new leaders within the network.</li> <li>• Overseeing and disseminating yearly network activity reports.</li> </ul>	Nominations for Network co-chair positions can be made by any executive board member. Self-nominations are acceptable. Minimum criteria for the position include 1 or more years of service on 1) the executive board, 2) within a committee, or 3) as the chair of an INSPIRE meeting. If a committee member/meeting chair self-nominates, the committee chair/executive member associated with that committee or meeting must approve. Nominations will be brought to the nominations committee, which reserves the right to nominate additional candidates and/or to veto any nomination. Elections will occur in June, with new terms beginning in July. Elections for the co-chair positions will be conducted in a staggered fashion, with only one director/co-director turning over per year. Only members will be eligible to vote in director/co-director elections.
<b>Treasurer</b> Travis Whitfill	The Treasurer oversees the Society's financial management to ensure the Board of Directors and staff understand their fiduciary responsibility. The Treasurer's term is three years.	<ul style="list-style-type: none"> <li>• Attend all Business and Board of Directors meetings.</li> <li>• Oversee the funds and financial matters of INSPIRE.</li> <li>• Present an annual financial report to the membership.</li> <li>• Signatory authority for tax and financial purposes.</li> <li>• Assume other responsibilities as directed by the Co-Chairs.</li> </ul>	This position has a 3-year term
<b>Executive Director</b> Leah Bozeman	The Executive Director serves as a long-term, paid position alongside the Network Co-	<ul style="list-style-type: none"> <li>• Management of the INSPIRE webpage and other IT infrastructure</li> <li>• Direct oversight of financial status and associate accounts</li> </ul>	This is a long term-position not subject to election. New Executive Directors will be selected by the

	directors, and is tasked with overseeing all administrative roles within the network. The executive director will also oversee and manage network finances and financial transactions.	<ul style="list-style-type: none"> <li>Coordinates network official communications.</li> <li>Oversees other administrative personnel</li> <li>Tracking/updating project-related databases in concert with other administrators</li> <li>Preparing/disseminating yearly reports.</li> </ul>	Network Co-chairs and Executive Committee, and their activities will be overseen by the same. Yearly performance evaluations will be provided.
<b>Executive Board</b> Tensing Maa Kimberly Stone Jon Duff Travis Whitfill Kasey Davis Jabeen Fayyaz Isabel Gross Priti Jani Pooja Nawathe Normaliz Rodriguez Barbara Walsh Bram Welch-Horan Hilary Woodward Anita Thomas Rachel Elkin	The executive board serves as the main governing body of INSPIRE. Each executive board member will have a specific role/area of oversight as outlined below. Together with the Network Director/Co-director and Executive Director, the Executive Board will oversee all activities of the network and function collectively to make needed decisions.	While roles are specified, this will not be construed to imply complete separation of function, and healthy crosstalk will be deliberately maintained. The Executive Board shall conduct monthly conference calls, during which each will report out regarding their specific role/function. Attendance at 80% of these calls is an expectation, and when calls must be missed, a brief electronic summary of their activities over the past month will be provided in advance of the monthly conference call. The period of service is 2 years for regular members, with an additional junior/trainee member with a 1-year term who must currently be in a training program. In addition to the named roles below, general at-large executive board slots may be created by the board as needed.	Nominations for the Executive board can be made by any member of the network. All members who have been part of INSPIRE for >2 years shall be eligible for nomination. Nominations will be brought to the nominations committee, which reserves the right to nominate or appoint additional candidates and/or to veto any nomination. Elections will occur in June, with new terms beginning in July. Elections will be conducted in a staggered fashion, so that no more than 50% of the Executive Board will turn over in any given year. Once elections have occurred, roles will be selected at the first executive meeting.
<b>Scientific Review Chair</b> Priti Jani Rachel Elkin	The Scientific Review Chair is responsible for overseeing and coordinating the consult and ALERT processes. These function as primary entrance points into the network. This individual shall convene a Scientific Review Committee for the purpose of conducting these activities, and for leadership development	<ul style="list-style-type: none"> <li>Developing agenda, facilitating and taking/distributing minutes for SRC conference calls. These 1 hour calls occur at least every other month, with additional calls scheduled as committee activities require.</li> <li>Overseeing the ALERT call for proposals, review, and notification process. This occurs twice a year (Sept-Jan for INSPIRE at IMSH, March-May for INSPIRE at IPSSW).</li> <li>Overseeing the consultancy functions of the SRC. Each year, a number of external research consultancy/mentorship requests are forwarded to the SRC. The committee chair is responsible for initial triage of these requests and, with the help of the committee as a whole, locating an appropriate mentor within INSPIRE for the originator of the request.</li> <li>Presenting SRC activities and status to the INSPIRE Executive Committee at monthly conference calls.</li> </ul>	Standard executive board nomination or appointment

<b>Award and Funding Chair</b> Travis Whitfill  Awards Chris Kennedy  Philanthropy Barb Walsh	The Finance and Award Chair is responsible for overseeing and coordinating study-related financial awards within the network as well as the acquisition of additional funding for the network itself. This individual shall convene a Finance and Award Committee for the purpose of conducting these activities, and for leadership development. The Finance and Award Chair will work closely with the Executive Director to accomplish these tasks.	<ul style="list-style-type: none"> <li>• Developing agenda, facilitating and taking/distributing minutes for Finance and Award Committee conference calls. These 1-hour calls occur at least every other month, with additional calls scheduled as committee activities require.</li> <li>• Overseeing the INSPIRE award selection process as well as the disbursement of funds and follow up regarding progress.</li> <li>• Active monitoring for funding opportunities/grants that could be used to conduct network-related studies and/or enhance infrastructure.</li> <li>• Presenting Finance and Award Committee activities and status to the INSPIRE Executive Committee at monthly conference calls.</li> </ul>	Standard executive board nomination or appointment
<b>Conference Oversight Chair</b> Kasey Davis	The Conference Oversight Chair is responsible for overseeing and coordinating all Network meetings. This includes INSPIRE@IMSH, INSPIRE@IPSSW, and any additional smaller meetings/retreats that may occur. This individual will be responsible for assuring that each of these meeting has co-chairs, and will fill in in the absence of an appropriate individual. Individual meeting chairs will then convene a planning committee, with the overall Conference Oversight Chair functioning as an Executive Board Liaison.	<ul style="list-style-type: none"> <li>• Selection of individual meeting co-chairs</li> <li>• Service as “backup” chair in the event that one of the above cannot be found or cannot serve.</li> <li>• Development and planning of official INSPIRE social events at network meetings</li> <li>• Functioning as a liaison to the Executive Board for the individual planning committees created by the specific meeting co-chairs</li> <li>• Presenting meeting related activities and status to the INSPIRE Executive Committee at monthly conference calls.</li> </ul>	Standard executive board nomination or appointment
<b>Communications / Website Chair</b> Bram Welch-Horan	The Communications Chair is responsible for overseeing and coordinating IT and social-media related activities. This also includes any advertising for the network. This individual shall convene	<ul style="list-style-type: none"> <li>• Developing agenda, facilitating and taking/distributing minutes for Communications Committee conference calls. These 1-hour calls occur at least every other month, with additional calls scheduled as committee activities require.</li> <li>• Overseeing social media communications and campaigns with</li> </ul>	Standard executive board nomination or appointment



	<p>a Communications Committee for the purpose of conducting these activities, and for leadership development. The Communications Chair will work closely with the Executive Director and designated administrative IT personnel to accomplish these tasks</p>	<p>the assistance of the Communications Committee.</p> <ul style="list-style-type: none"> <li>• Active monitoring for Social media opportunities that could benefit INSPIRE.</li> <li>• Presenting Communication Committee activities and status to the INSPIRE Executive Committee at monthly conference calls.</li> </ul>	
<p><b>Leadership Cultivation Chair/Outgoing Network Chair:</b> Kim Stone</p>	<p>The Leadership Cultivation Chair is occupied by the outgoing Network Chair and is tasked with assisting Executive Committee members as they develop and nurture leaders within their respective committees as well as in the network at large. This individual also convenes a Nominations Committee for the purpose of assuring that all potential Executive Board/Network Director nominees are appropriately qualified for the position and will maintain INSPIRE core values. The Nominations Committee also oversee all elections. The Leadership Development Chair works closely with the Executive Director to accomplish these tasks.</p>	<ul style="list-style-type: none"> <li>• Convening and overseeing activities of Nominations Committee, which shall occur yearly in March, allowing for 3 months of activity prior to elections.</li> <li>• Observing and liaising with other Executive Board Members and their respective committees with the goal of developing/nurturing future leaders</li> <li>• Active monitoring of INSPIRE network meetings for promising new leaders that could be encouraged to take on more core roles.</li> </ul>	Standard executive board nomination or appointment
<p><b>Membership Development Chair</b> Pooja Nawathe</p>	<p>The Global Membership Development Chair is responsible for overseeing all INSPIRE membership growth related activities. This includes outreach and expansion of international and inter-professional membership growth, as well as assurance of healthy diversity. While a committee is not required, this individual is charged with convening <i>ad hoc</i></p>	<ul style="list-style-type: none"> <li>• Outreach to under-represented national, ethnic, professional, and other social groups with the goal of enhancing the network's global relevance and reach.</li> <li>• Overseeing membership processes and databases in partnership with the Executive Director</li> <li>• Active monitoring for external opportunities that could increase INSPIRE membership and value to the global community.</li> <li>• Convening of <i>ad hoc</i> committees as needed to accomplish these goals</li> <li>• Presenting global membership-related activities and status to the INSPIRE Executive Committee at monthly conference calls.</li> </ul>	Standard executive board nomination or appointment

	committees as needed to accomplish these goals.		
<b>Novice Simulation Researcher Development Chair</b> Ryan Fredericks Rachel Elkin	This position is reserved for trainees with interest in the INSPIRE network. Novice development members serve for at least 1 year, with the potential for 2-years of service at their discretion provided they are still in a training program for the second year. The Novice Simulation Researcher Development Chair is tasked with forming a Novice Simulation Researcher Committee composed of trainees also interested in the network with the goal of obtaining ongoing feedback regarding current novice and trainee needs. Those within this role will receive intensive mentoring with the purpose of preparing them for future service once training complete.	<ul style="list-style-type: none"> <li>• Development and oversight of a Novice Simulation Researcher Committee composed of trainees interested in INSPIRE (note, this committee will serve a 1-year term)</li> <li>• Ongoing monitoring and assessment of current trainee needs</li> <li>• Presentation of these activities to the INSPIRE Executive Committee at monthly conference calls.</li> </ul>	Standard executive board nomination or appointment
<b>Fellowship Committee Chair</b> Jabeen Fayyaz	The fellowship committee chair is responsible for overseeing INSPIRE's contributions to the INSPIRE-IPSS fellowship program. This includes developing and maintaining processes for the selection of new fellows, oversight of their scholarly work, and assistance in professional growth. This individual is also charged with the convening of a committee to assist in these activities, and serving as a liaison to those members of the IPSS leadership involved with the fellowship program	<ul style="list-style-type: none"> <li>• Convening and overseeing activities of the Fellowship Committee</li> <li>• Developing and maintaining processes for fellow selection,</li> <li>• Developing and maintaining processes to monitor and assist with fellow progress</li> <li>• Working with the Finance and Award Committee to manage fellowship-directed donations and other relevant funds</li> <li>• Serve as a liaison with IPSS leadership in matters pertaining to the fellowship</li> <li>• Assure, along with the IPPS fellowship committee chair, balanced representation of both INSPIRE and IPSS within the committee</li> <li>• Assure that outgoing fellows are involved, if they so desire, in committee activities</li> </ul>	Standard executive board nomination or appointment

## Committees

Committee	Description / terms of service	Chair
<b>Standing Committees</b>		
<b>Scholarship Oversight Committee</b>	2 years	Chair
<b>Leadership Cultivation/Nominations Committee</b>	Serves for a 3-month period prior to June elections	Outgoing Chair
<b>Finance and Audit Committee</b>	3-year term of service. The Finance & Audit committee shall provide financial reports, recommendations, and guidance to the Board of Directors. They are responsible for reviewing and authorizing internal and external financial audits as required by applicable laws or as otherwise deemed necessary to effectively provide oversight for INSPIRE's financial status and integrity.	Treasurer
<b>Bylaws Committee</b>	The Bylaws committee shall perform a review of the Society Bylaws every three years, or as needed, and provide recommended amendments (if applicable) of these Bylaws to the Board of Directors.	Secretary
<b>Ad Hoc Committees</b>		
<b>Award and Funding Committee</b>	2 years	Funding Chair
<b>Communication / Website Committee</b>	2 years	Communications Chair
<b>Project Support Committee</b>	2 years	Project Oversight Chair
<b>Novice Simulation Researcher Committee</b>	1 year, with option of one additional year if desired.	Novice Simulation Researcher Development Chair
<b>Conference Planning</b>	Serves for a period of 6-12 months prior to the meeting in question. During this preparatory period the meeting co-chairs shall be invited to INSPIRE Executive calls and shall function as <i>de facto</i> executive members	Individual Meeting Chair and Social Events Chair
<b>Membership Committee</b>	As needed based no particular goals or events	Global Membership Development Chair
<b>Advisory Council</b>	The Advisory Committee will consist of previous Network chairs and/or founding members and exists for the purpose of advising current Network Directors and providing needed institutional memory. No standing meetings of this committee will be required.	

