

Nationwide Children's Hospital Simulation Center Annual Report 2023



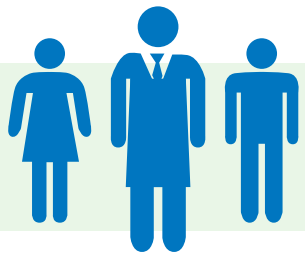
NATIONWIDE CHILDREN'S
When your child needs a hospital, everything matters.

IN THIS ANNUAL REPORT

| | |
|-----------------------------------------------------|----|
| MISSION/VISION | 4 |
| DIRECTOR'S MESSAGE | 6 |
| MEET THE TEAM | 8 |
| TIMELINE | 10 |
| CENTER GROWTH/PROGRAM EVOLUTIONS..... | 12 |
| BY THE NUMBERS | 14 |
| NATIONAL/INTERNATIONAL LEADERSHIP AND SERVICE | 15 |



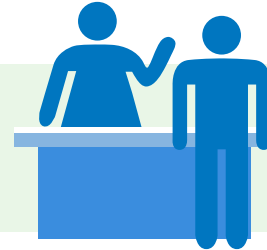
SIMULATION DATA



2023 Learners

16,709

**58% INCREASE
FROM 2022**



2023 Learner Contact Hours

43,232

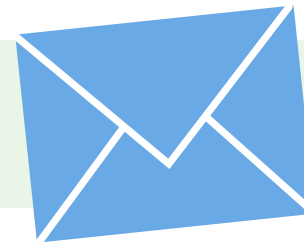
**75% INCREASE
FROM 2022**



2023 Hours

5,397

**123% INCREASE
FROM 2022**



2023 Events

2,217

**89% INCREASE
FROM 2022**

MISSION/VISION

Mission

To integrate agile and immersive simulation that leads to the best outcomes in pediatric health care.

Vision

By leading the way in simulation, we will empower health care teams, patients and families to reach their highest potential.

- Utilize simulation to transform clinical performance and practice (education and operational excellence).
- Lead development of state-of-the-art medical and surgical pediatric simulation (partnerships and program integration).
- Generate new knowledge through simulation research and program development.

“The internal collaboration between two Center for Clinical Excellence teams has been fantastic! Our Quality team has worked with the Simulation team in the past year to identify opportunities for testing interventions for quality improvement projects in a safe and reliable setting – the simulation center – which allows our clinical partners to gain confidence that the changes they are making will have the impact they want. Additionally, our teams have recently collaborated with our Infection Prevention team to develop scenarios around crucial conversations dealing with hand hygiene situations. It’s a win-win for everyone to be able to utilize this space for testing changes and feel confident our work will lead to best patient outcomes.”

*Jessica Holstine,
Heather Maciejewski
and Christina Toth*
Quality Team Managers, Clinical Outcomes



DIRECTOR'S MESSAGE



**Cheryl Camacho, MBA,
CHSE, Paramedic, FSSH**

Hello,

It is with great pleasure that we present to you the 2023 Annual Report for the Nationwide Children's Hospital Simulation Center. This year has been marked by outstanding achievements, unparalleled dedication from our team, and remarkable progress in advancing simulation education and training.

Our Simulation Center stands as a Center of Excellence, thanks to the unwavering commitment and expertise of our exceptional staff. Their dedication to providing immersive and realistic simulation experiences has transformed learning outcomes for health care and non-health care professionals across various disciplines. From physicians to nurses and emergency responders to medical students, our team has consistently delivered high-quality training that prepares individuals to handle real-world medical challenges with confidence and proficiency.

In 2023, we expanded our repertoire of simulation scenarios to encompass a diverse range of medical specialties, including both communication and medical scenarios. Our team meticulously crafted immersive simulations that mirror real-life clinical situations, enabling learners to develop critical thinking skills, enhance teamwork, foster communication and improve patient outcomes. Through innovative simulation techniques and cutting-edge technology, we have created an environment where learners can safely explore complex medical procedures, refine their clinical skills and cultivate a deep understanding of patient care principles.

The achievement of accreditation from the Society in Simulation in Healthcare marks a significant milestone for our simulation center. It validates our commitment to excellence in simulation-based training and underscores our dedication to providing the highest quality education for health care and non-health care professionals.

Through rigorous standards and assessments, we have demonstrated our adherence to best practices in simulation methodology, technology and education. This accreditation not only showcases our center's capabilities but also assures our stakeholders, including students, faculty and health care organizations, of the caliber of our programs. It signifies that our simulation center meets the highest industry standards, fostering confidence and trust in the education and training we provide. With this accreditation, we are poised to continue advancing simulation-based learning, driving innovation, and ultimately enhancing patient care and safety through well-prepared health care professionals.

Furthermore, our Simulation Center played a pivotal role in promoting interprofessional collaboration and teamwork within health care teams. Through interdisciplinary simulation scenarios, we brought together professionals from various fields to simulate realistic patient care scenarios, emphasizing the importance of effective communication, collaboration and mutual respect in delivering optimal patient outcomes.



As we reflect on the accomplishments of 2023, we extend our deepest gratitude to our dedicated staff whose passion, expertise and tireless efforts have propelled our Simulation Center to new heights. We also express our sincere appreciation to our partners, stakeholders, and collaborators for their continued support and commitment to advancing simulation education and training.

Looking ahead, we remain steadfast in our mission to inspire excellence in health care through innovative simulation education. With a steadfast commitment to excellence, a spirit of collaboration and a relentless pursuit of innovation, we are confident that the Simulation Center will continue to serve as a cornerstone of excellence in health care education for years to come.

Sincerely,

Cheryl Camacho, MBA, CHSE, Paramedic, FSSH

Director of Simulation and Outreach Education

Nationwide Children's Hospital

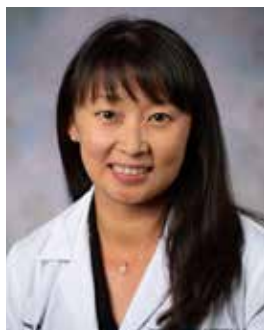
“Great experience! Repeat scenario for me and automatically felt so comfortable having practiced, Sim works!”

- Pharmacist '23

MEET THE TEAM



Karen A. Diefenbach, MD, is the director for Minimally Invasive Surgery at Nationwide Children's and is an associate professor of Pediatric Surgery at The Ohio State University College of Medicine. Previously, she served at Yale University School of Medicine and Yale New Haven Children's Hospital. She completed her general surgery residency at the University of Illinois, OSF St. Francis Medical Center, and her Pediatric Surgery training at Yale. Her clinical focus includes minimally invasive techniques for treating neonatal congenital anomalies like tracheoesophageal fistulas, esophageal atresias, diaphragmatic hernias, intestinal atresias and congenital lung lesions. Dr. Diefenbach is dedicated to surgical education, having developed pioneering neonatal training devices for laparoscopy and thoracoscopy used globally. She also serves as associate director of Surgical Education at Nationwide Children's.



Tensing Maa, MD, is board-certified in Pediatrics and Pediatric Critical Care and is a professor in Clinical Pediatrics for The Ohio State University College of Medicine, where she also attended medical school. Her academic interests include simulation in health care, resuscitation, patient safety, health equity and neurocritical care. Dr. Maa is the medical director of the Simulation Program, co-chair of the Resuscitation Committee and co-lead of the Proactive Safety Committee at Nationwide Children's. She also serves as co-chair of the executive board for the International Network for Simulation-based, Pediatric Innovation, Research and Education (INSPIRE).



Daniel J. Scherzer, MD, is a pediatric emergency medicine physician at Nationwide Children's and professor of Clinical Pediatrics at The Ohio State University. Dr. Scherzer is an associate medical director of Nationwide Children's Simulation Program, an editorial board member of *Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare*, and the site principal investigator for Improving Pediatric Acute Care Through Simulation. Dr. Scherzer directs Nationwide Children's simulation-based trauma credentialing for surgeons, emergency medicine physicians and emergency department staff who participate in trauma alerts. Dr. Scherzer has provided simulation-based workshops for the Pediatric Trauma Society, the International Meeting for Simulation in Healthcare, the International Pediatric Simulation Society, the American Academy of Pediatrics and Pediatric Academic Societies. Dr. Scherzer is passionate about using simulation as a platform to promote psychological safety and to build multidisciplinary and interprofessional relationships.



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THE SIMULATION CENTER TIMELINE

NATIONWIDE CHILDREN'S SIMULATION PROGRAM

supports the hospital's guiding principle to "Create a safe day every day."

Accredited by the Society for Simulation in Healthcare, our Simulation Program provides opportunities for various medical professionals to practice technical skills, medical judgment and collaborative teamwork.



2007

Inspired by the adoption of high-fidelity simulators at other academic medical centers, Nationwide Children's started researching innovative ways to launch education within the organization. Our program started by adopting high-fidelity simulators into our Pediatric Advanced Life Support (PALS) program to obtain buy-in from not only learners but faculty.

2017

In parallel to the curriculum developed in our Sim Center, we developed an in-situ program of mock codes that later evolved into the more formal Code Blue program at Nationwide Children's in 2017.

2018

The Sim Center was provided dedicated space in the main hospital that incorporated two hospital bays and a control room. Over the years we validated our existence and made a substantial impact on the organization. A business plan was created to build a brand new, dedicated simulation center.

2019

Nationwide Children's hired a new director with simulation expertise to complement our leadership team of three highly skilled medical directors with critical care and emergency medicine backgrounds.





2020

2021

2022

2023

2024

Sim Center opens. In August, we moved into our brand-new simulation center. From here, we created new processes and structures around the education being delivered in addition to operational policies.

In the summer, we received Provisional Accreditation from the Society of Simulation in Healthcare. We took this feedback and made improvements and enhancements in our data collection and educational methodology. We were reorganized from being housed under the Education umbrella to being under the Center for Clinical Excellence and aligning our strategic plan in accordance with Quality and Safety.

During that time 2021-2022, we made a significant improvement by integrating into our organization in response to aiding in launching new programs and space.

The Sim Center obtained the Basic Life Support program under our list of courses to house all certifications in one department. As we continue to grow our programs and events we look forward to a record-breaking year, surpassing learner engagement and contact hours in addition to growth.

This year, we received Full Society for Simulation in Healthcare Accreditation.

Changes on Horizon
Focusing on diversity, equity and inclusion initiatives and systems integration



CENTER GROWTH/PROGRAM EVOLUTIONS

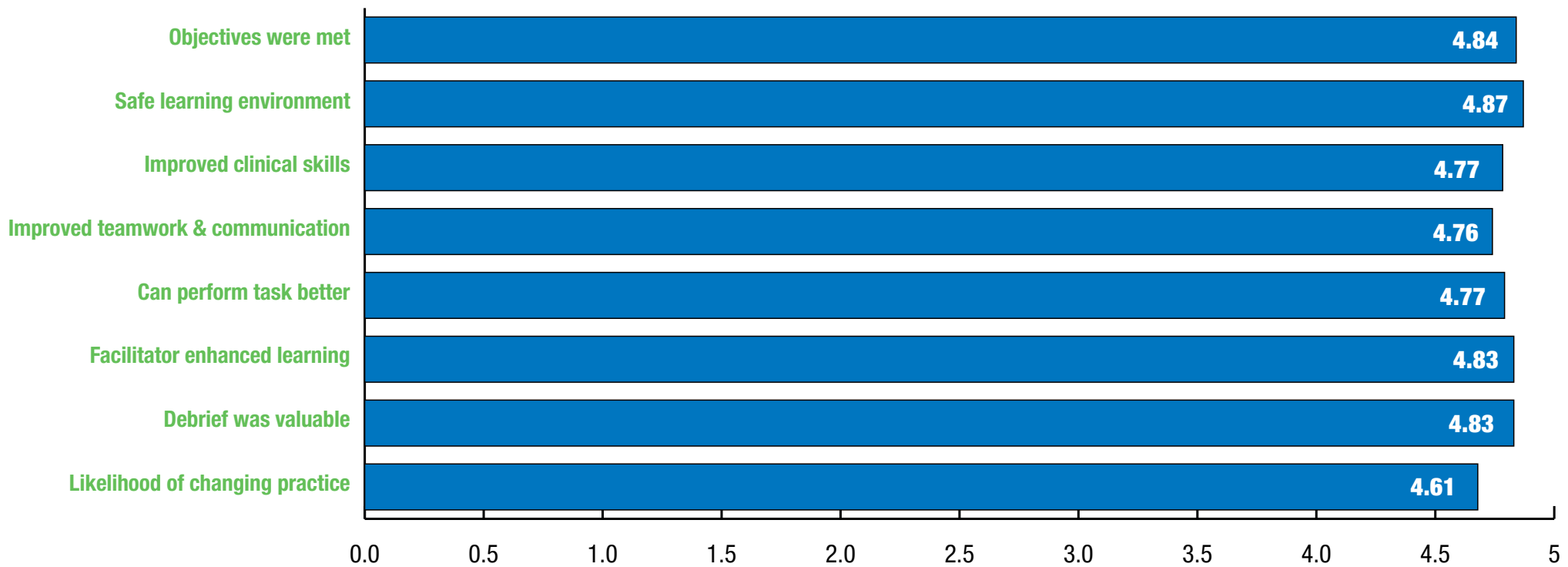
- Society for Simulation in Healthcare Full Accreditation
- Simulation Costing Structure
- 95% Customer/Learner Satisfaction Survey
- Commercialization - Tracheostomy Trainer
- Central Ohio Simulation Consortium Host
- Employee Turnover - one in 2023
- Systems Testing - Livingston Orthopedic & Surgery Center, New Tower
- Identify Latent Safety Threats
- Crucial Conversations
- Inclusive Excellence Award
- Staff Orientation - Situation Awareness Update
- Conference Support
- Simulation Integration Into New Areas and Projects





SIMULATION SURVEY RESULTS

(5 point Likert Scale)



Simulation Contributions

Cheryl Camacho: SSH: Site Reviewer, Program Reviewer Co-chair, Directors Section Chair, Fellow, IMSH 2024 Co-chair, Technology Committee Member CHA Co-Chair-Simulation Leadership Committee, IPSSW-membership committee

Daniel Scherzer: Editorial Board Member for SSH ImpACTS Site Investigator for ImpACTS-ED and ImpACTS Transport

Tensing Maa: Co-chair, International Network for Simulation-based Pediatric Innovation, Research, & Education (INSPIRE)

All: Central Ohio Simulation Consortium Steering Committee Member



Zero Hero™
Create a safe day. Every day.



CONTACT US

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