

Annual Report **2024**

Where learning
leads to *life-saving.*

NCH

JUDITH & MARVIN HERB FAMILY
Simulation Center

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INTRODUCTION

THE JUDITH AND MARVIN HERB FAMILY SIMULATION CENTER is one of SWFL’s largest simulation centers that is truly multidisciplinary. The center is within a 12,000-square-foot at NCH in Naples, FL., and focuses on training healthcare professionals to acquire, maintain, and enhance their skills in a state-of-the-art, high-fidelity training environment. The center also extends the benefits of simulation to high schools, middle schools, youth organizations, women’s organizations, foundations, first responders, and other community members.

The Judith and Marvin Herb Family Simulation Center opened its doors in March 2021 in a state-of-the-art, high-fidelity temporary simulation center at NCH. This 8,000-square-foot space made it possible to have two acute care simulation rooms, a control room, an outpatient office/clinic, a procedural skills lab, a classroom, and a debriefing room. This temporary space allowed the organization to train its learners while the permanent 12,000-square-foot space was being built with a completion date of 2023. During this time, we performed a needs assessment to cater our new Simulation Center build to the organization’s and learners’ needs.

Our new Simulation Center opened in January of 2023 and has two debriefing rooms, three classrooms, a fully functioning cardiovascular operating room suite, a procedural skills lab that flexes into another operating room suite, an outpatient clinic room, a moulage room, a green room for our standardized patient program/actors, a labor and delivery/NICU simulation room, an ICU/Emergency Department simulation room, two other flex simulation rooms, two large control rooms, and an Immersive Interactive room by ECHO Healthcare. The Simulation Center team takes pride in enhancing the learner’s environment into a realistic clinical setting. The team can replicate almost any clinical or nonclinical setting, providing the highest realism possible.

MESSAGE FROM THE MEDICAL DIRECTOR

2024 WAS A VERY ENGAGED AND SUCCESSFUL YEAR for the Judith and Marvin Herb Family Simulation Center at NCH.

Some of the highlights and accomplishments are listed below:

- **The second year in a row recognized in Beckers Healthcare:** Health systems with top simulation/ education programs.
- **Grand Rounds at NCH May 2024:** In-flight medical emergencies: *What you need to know!* Simulation Competition. A hybrid grand rounds with didactics including the most common medical emergencies occurring on a plane, the contents of the emergency kit, followed by 2 in-flight medical simulations on the auditorium stage. Then, it was reviewed by a panel of debriefers, and the audience voted on the winner.



- **Dr. Harrington delivered an invited lecture** at the national ACOI (American College of Osteopathic Internists) conference, entitled “Breathing Life into Learning. The Evolution of Simulation Training in Pulmonary and Critical Care.”
- **Publication in Cereus, Level Up Your Residency:** *Can a Novel Two Week Simulation Rotation Really Make a Difference.* Collaboration between the simulation team and the transitional year residency.
- The center acquired **two new mannequins:** a Laerdal ALS high-fidelity mannequin devoted to code team training optimization, generously donated by Barbara Morrison, and a Laerdal high-fidelity Nursing Ann geriatric mannequin, generously donated by Bill and Lynn Martin, for internal medicine

resident and nursing training, focused on scenario training, including neurological and cardiology.

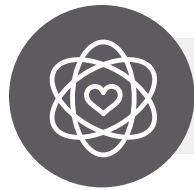
- **Increased utilization of the mixed reality immersive room** for both wellness and interactive scenario training with an element of gamification.
- **Expansion of the 3D printing capability** to include two new state-of-the-art 3D resin printers utilized by the sim team and NCH Rooney Heart Institute to print anatomical patient heart models in resin, allowing improved planning and execution of percutaneous cardiac valvular procedures.

The Simulation Center has seen **continued growth**, with 5,077 learners, more than 20,000 learner hours, and 703 classes. This includes expanded in-situ simulation training, including mock codes in the inpatient units at both campuses and the operating room, labor and delivery, and OB emergencies in mom and baby at North Naples WCP.



DOUG HARRINGTON, DO, FCCP
Medical Director
Penny & Bill Allyn Endowed Chair
Judith and Marvin Herb Family Simulation Center





MISSION

The Judith and Marvin Herb Family Simulation Center enhances the organization's mission to improve healthcare by preparing competent team members across the healthcare continuum in a supportive, state-of-the-art, realistic environment that promotes excellence through multidisciplinary and innovative simulation training.



VISION

The Judith and Marvin Herb Family Simulation Center will serve as a world-class leader in healthcare simulation, advancing innovative education, hands-on practice, and research to promote patient safety and quality of care. With a broad and inclusive reach, the Simulation Center will benefit all NCH staff, community healthcare providers, first responders, and the public—elevating the standard of care across the region.



STRATEGY

- Align and leverage the Simulation Center with hospital quality improvement focused on improved patient outcomes and safety.
- Promote external users of the Simulation Center, creating partnerships and collaborations with key institutions, educational colleges, universities, and industry.
- Expand simulation into the pulmonary critical care and cardiology fellowship training programs.



MEET OUR SIMULATION TEAM

THE EXTRAORDINARY SIMULATION TEAM brings a broad range of expertise and experience to the center, which allows us to serve the staff and community with nothing but excellence. The dedicated staff work collaboratively and professionally to ensure that the simulation training is of superior quality, enhancing the learners’ experience and truly being learner-centered.



DOUG HARRINGTON, DO, FCCP
Medical Director
Penny & Bill Allyn Endowed Chair

Dr. Doug Harrington has been at NCH since 2003. He is a practicing Pulmonary and Critical Care Physician, as well as the Medical Director of the NCH Simulation Center and the Associate Program Director of the Internal Medicine Residency Program. Dr. Harrington trained in Internal Medicine, Pulmonary, and Critical Care at the Henry Ford Hospital in Detroit. He also holds appointments as an Associate Professor of Medicine at the University of Central Florida and as an Adjunct Assistant Professor of Medicine at the Mayo Clinic. Dr. Harrington has been awarded multiple Excellence in Teaching Awards. Dr. Harrington is the driving force behind the development of the NCH Simulation Center, following a one-year sabbatical/fellowship at the Mayo Clinic in Simulation Medicine from 2019 to 2020. Dr. Harrington’s interests include incorporating simulation training in postgraduate residency programs, multidisciplinary simulation with high-performing teams, situational awareness, and optimization of infrequent high-risk events, and innovative use of technology integration in simulation education.



HOPE GOODWIN, RN, MSN, CEN, CHSE
Operations Manager

Hope Goodwin was born and raised in Naples, FL. Hope has been working with NCH since 2004 in various roles, mainly in the Emergency Department and, most recently, Operations Manager of the Simulation Center. During her time at NCH, she co-investigated pediatric trauma research with Dr. Carmen Ramos and completed a year-long leadership academy funded by the Centers for Disease



JULIO IRIZARRY
Simulation and 3D Printing Specialist

Julio Irizarry, Simulation Technician Specialist, is a native New Yorker who moved to Naples, Florida in February 2002. Julio started his career at NCH in June of 2011 as a Medical Assistant with the NPG Pulmonary office. In 2013, he joined the NPG Clinical Education Team, educating new MA hires and onboarding new NPG providers. From 2015–2021, Julio began a new career with the Cerner Corporation Team and was a Senior Coach Educator, onboarding both Inpatient and Ambulatory providers and new Ambulatory clinical hires. Julio enjoys family vacations, and in his spare time, he enjoys working on cars. Julio also has an I.T. background, which is pivotal in his career as a Professional Simulation Operations Specialist.



TESA-ANN SMITH
Coordinator of Standardized Patient and Simulation

Tesa-Ann’s professional medical journey started in The Bahamas, where she was raised. Her passion for healthcare began in 2012 when she began as a junior medical assistant at The Bahamas Food Centre. She continued to grow her skills and experience in the podiatrist office until she moved to Naples, Florida, in 2018. Tesa-Ann’s career continued to evolve when she joined NCH as a patient transporter in December 2019. While working as a lead transporter, she continued to fuel her passion by completing the surgical technology program at Lorenzo Walker Technical College, which led to her successful certification as a Surgical Technologist. After working as a CST at NCH North Naples Hospital, Tesa-Ann now serves as the coordinator of the Judith and Marvin Herb Family Simulation Center.

NCH SIMULATION CENTER BY THE NUMBERS

20,981

LEARNER
HOURS

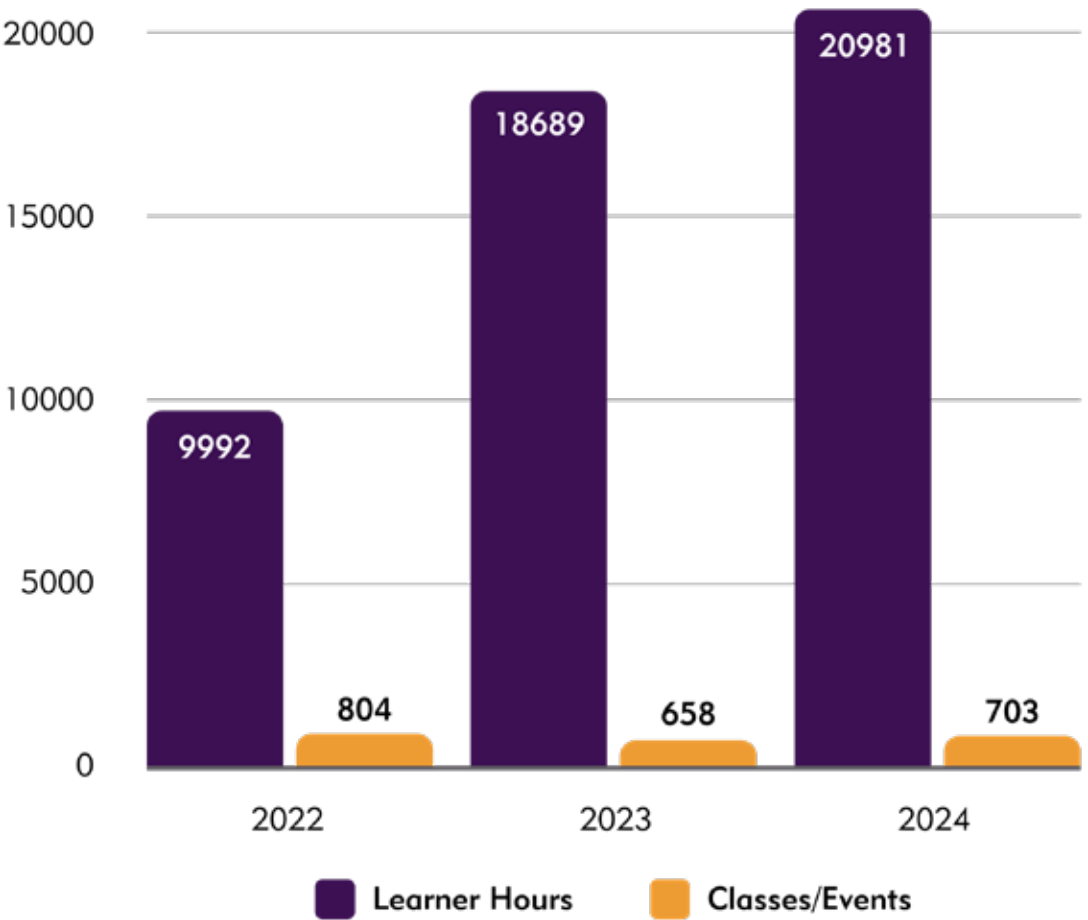
5,073

TOTAL
LEARNERS

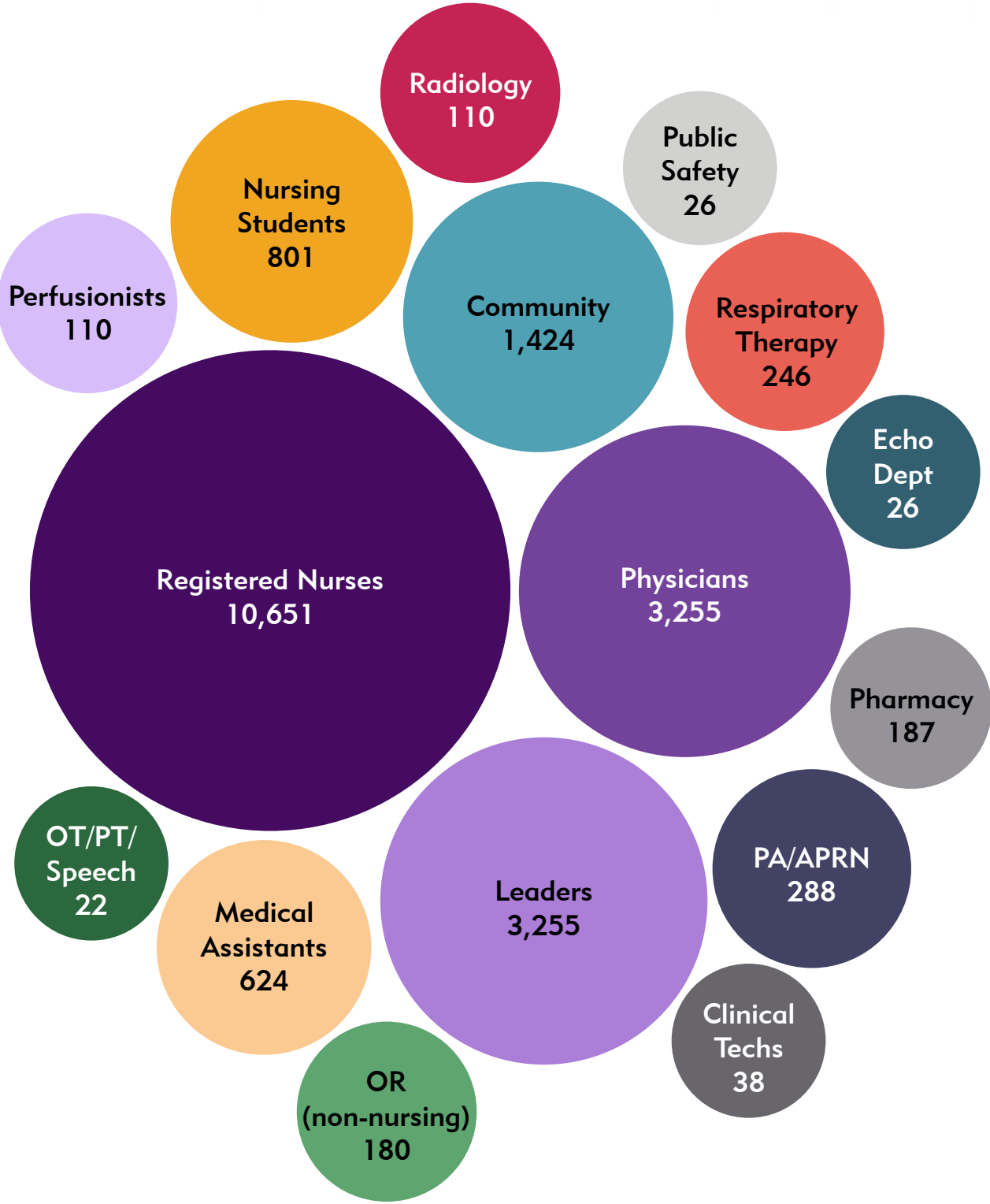
703

COURSES

YEAR COMPARISON
(LEARNER HOURS & SCHEDULED CLASSES)



LEARNER HOURS



INNOVATIONS & TECHNOLOGY

PUBLIC SAFETY DE-ESCALATION AND TASER DEPLOYMENT SIMULATION TRAINING

All of the public safety officers have been given tasers for the safety of our staff and patients. The public safety officers go through a rigorous training program where we perform high-level simulation training, deploying real tasers and utilizing standardized patient actors that they will have to de-escalate during a crisis event.

HR LEADERSHIP COMMUNICATION TRAINING

Leaders were our Simulation Center’s third biggest user in 2024. Human Resources has put together several high-level communication scenarios where actors from The Naples Players have been tapped to recreate realistic scenarios where leaders have to utilize communication skills.

CARDIAC ECHO DEPT STERILE FIELD TRAINING

Echo Techs simulated an echocardiogram in our Steve and Julie Vanderboom Cardiac Operating Room while a simulation patient was undergoing a cardiac procedure.

POCUS TRAINING WITH TAMPA ANESTHESIA RESIDENTS

Tampa Anesthesia resident utilized our Simulation Center to get expert training on our POCUS simulators.

TEAM HEALTH PROVIDER TRAINING

This year, Team Health held their quarterly provider training in our Simulation Center, performing high-risk low-frequency emergency simulations, including third-degree burns.

IMPELLA TRANSPORT WITH FIRST RESPONDERS AND CARDIAC CATH LAB

This multidisciplinary simulation training started with Collier County EMS first responders picking up a patient who was having a STEMI. The patient was transported to North ED and then to the cath lab. During the cath lab, the team had to emergency transport the patient downtown to CVICU on an Impella. The patient went into cardiac arrest en route, and the first responders and the cath lab staff had to work together in an ambulance to resuscitate the patient while watching the Impella pump. The scenario ended at Baker CVICU with the cardiac team.



INTER-AGENCY COLLABORATION

WE TAKE IMMENSE PRIDE in the unique partnerships we've built with our community through inter-agency collaboration. As a simulation center, we are privileged to serve not only healthcare professionals but also a diverse range of community users. These partnerships allow us to give back in meaningful ways, whether through introducing healthcare carers to local youth, offering life-saving training, or providing simulation space for critical community initiatives. This collaborative spirit is at the heart of our missions, and we are honored to contribute to the health, safety, and well-being of our broader community.

Our community users are: Collier County EMS, Greater Naples Fire Dept, The Immokalee Foundation, FSU SSTRIDE program, STARability Foundation, Naples High School, Lorenzo Walker Institute, Leadership Collier, Tampa Anesthesia Residents, Ave Maria University, Keiser University, FSW College, FGCU, NOVA, Team Health, Pelican Bay Rotary Club, Men's and Women's Cultural Alliances of the Jewish Federation of Greater Naples, RCMA Academy, Community School of Naples, Southwest Florida CEO group, The Guadalupe Center, local home health agencies, American Heart Association, Boy Scouts, NCEF, Lifevac company, Stop the Bleed classes, community CPR/first aid classes, 3D printing in collaboration with the Rooney Heart Institute, first responder transport training with Brewster Ambulance, Lee County EMS and local flight companies, and The Guadalupe Center.

These courses, workshops, and presentations included high-risk simulation training, immersive room training, workshops introducing students to healthcare, tours, moulage workshops, virtual dissection training, hands on CPR, emergency first aid courses, and education on LifeVac anti-choking device to the local public-school nurses and health aides.



Dr. Brittany Davis, PGY3, presenting the FSU SStride students of Immokalee.



NCH Sim Team and Noemi Garcia taking part in the massive FGCU disaster/mass casualty simulation drill. Over 600 learners took part in this all day event at FGCU with NCH as a sponsor and supporter.



Interagency collaboration is a cornerstone of our success and growth as a simulation center. A powerful example of this is the partnership facilitated by our generous donors Steve and Julie Vanderboom, who brought together the Allina Health Simulation Center team and the NCH Judith and Marvin Herb Family Simulation Center at NCH. Through this connection, teams were able to share best practices, exchange ideas, and strengthen simulation-based education across institutions. Collaborations like these not only enhance the quality and consistency of training, but also foster a culture of innovation and continuous improvement that ultimately benefits patients, providers, and the broader healthcare community.

ACHIEVEMENTS & MILESTONES

BECKER’S TOP 64 HOSPITALS WITH SIMULATION AND EDUCATION PROGRAMS TO KNOW

CHICAGO (January 2025) — Becker’s Hospital Review is excited to highlight 64 hospitals and health systems with exceptional simulation and education programs. These organizations are dedicated to advancing their workforce and service lines through innovative education and simulation initiatives. By offering realistic, safe and controlled environments, these programs enable learners to master essential healthcare skills. These efforts result in better patient outcomes, enhanced safety and lower healthcare costs.

AIA 2024 DESIGN AWARD

Citation Award of Excellence for Interiors: Judith and Marvin Herb Family Simulation Center (Studio+)

PUBLICATION OF “LEVEL UP YOUR RESIDENCY: CAN A NOVEL TWO-WEEK SIMULATION ROTATION REALLY MAKE A DIFFERENCE?”

—Lyndsey N. Nguyen, Thomas C. Hartmann,
Doug W. Harrington, Brian R. Pulford

Each year our transitional year residents perform a two-week rotation in the simulation center. During this time, the transitional year residents are tasked to come up with a high level simulation training that would focus on their specialty area.







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