



# **Interprofessional Clinical Simulation Program**

# **Annual Report**

**Academic Year 2022-2023**



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## *A Message from our Directors*

*The Interprofessional Clinical Simulation Program (ICSP) continues to work to establish a collaborative and welcoming program that will unite healthcare professionals and students in a safe and realistic educational environment. This past year has been an extraordinary one for the ICSP, marked by a return to pre-pandemic level of activity of over 20,000 learner contact hours. We express our gratitude to the faculty, staff, advisory board, and supporters who keep our Center running and their dedication to providing exceptional educational experiences for our learners.*

*We have assembled this annual report for our stakeholders to highlight activities, share success stories, and celebrate the use of simulation modalities in clinical training. We invite you to read about the incredible activities and accomplishments the ICSP has made over the past year.*

*Sincerely,*

*Rebecca Gilbird, MPH, CHSOS-A, CHSE*

*Skip Robey, MD, CHSE*

*Jennifer M. Bennett, MD*



# Mission and Vision

## Mission

The mission of the Clinical Simulation Program is to promote excellence in clinical care, promote patient and learner safety, and improve multidisciplinary team performance using simulation modalities.

## Vision

The Clinical Simulation Program will be a national model for simulation-based interprofessional education. A collaborative approach across institutions and disciplines will offer an opportunity to jointly address safety and quality of care for patients in Eastern North Carolina.





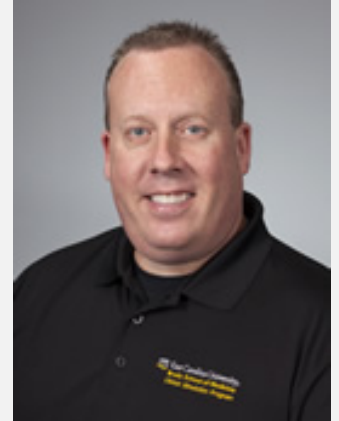
# Faculty and Staff Office of Clinical Simulation



Walter C. Robey, MD,  
FACEP, CHSE  
Assistant Dean



Rebecca M. Gilbird,  
MPH, CHSE, CHSOS-A  
Administrative  
Director



David Schiller, EMT-P,  
CHSOS-A  
Technical Operations  
Manager



Jessica Cringan,  
EMT-P, CHSOS  
Simulation Specialist



Kim Haga, MBA  
Program Coordinator



Jennifer M. Bennett,  
MD, FACEP  
Medical Director

# A d v i s o r y   B o a r d

The Interprofessional Clinical Simulation Program's Advisory Board plays a critical role in the long-term success of the program.

## 2022-2023 Board Members

Joanna Adams, MD  
Lorrie Basnight, MD, FAAP  
Jennifer Bennett, MD, FAAP, CHSE  
Mildred Carraway, MSN, RN  
Maria Clay, PhD  
David Eldridge, MD, FAAP  
Laura Gantt, PhD, RN, CHSE, FSSH  
Herb Garrison, MD, MPH  
Bryan Lake, BSN, RN  
Kelly Lancaster, MA  
James R. Menke  
Patrick Merricks, MBA  
Donna Moses, MSN, RN  
David Bryan O'Geary, MSN, RN  
Erin Pearson, RN

Natalie Smith, DMSc, PA-C  
Rachel Stiglitz, BSOM M3 Student  
Ben Wise, BSOM M4 Student  
Hunter Venters, FNP  
Melinda Walker, MSN, RN, CHSE, CHSOS



# A n n u a l U t i l i z a t i o n

The Society for Simulation in Healthcare (SSH) defines the standard unit for measuring simulation activity as the learner contact hour.

(Number of Learners x Number of Hours of Simulation = Total Learner Contact Hours)

One learner contact hour describes one person participating for 60 minutes in an organized learning activity.

*The ICSP had over 20,000 learner contact hours for academic year 2022-2023, an increase of over 5,000 contact hours from last year!*

# The Brody School of Medicine

- M1 First 5 Minutes® simulated crisis training course, basic vital signs and assessment, interprofessional physiology scenarios with M1 Medical and CRNA students
- M2 Physical Diagnosis Rotations and Clinical Applications case scenarios
- M3 and M4 clerkships: Internal Medicine, Pediatrics, OB/GYN, Surgery, and Emergency Medicine
- M3 and M4 students two- and four-week elective rotations in Simulation and Skills
- Support for student interest group and distinction track activities
- Basic Life Support/CPR instruction for M1 and M3 students
- M3 Interprofessional Transitions course
- M4 Transition to Residency course



***3,393 Learners***  
***10,754 Contact Hours***

# ECU Health Medical Center Graduate Medical Education

- Monthly simulation and skills programs for Emergency Medicine, Pediatric Intensive Care Unit, Emergency Medicine/Internal Medicine, Pulmonary and Critical Care, and Surgery
- Procedural Skills Practice Labs for Pulmonary and Critical Care, Emergency Medicine, and Emergency Medicine/Internal Medicine residents
- Central Venous Catheterization course for residents, fellows, and APPs
- Four-week elective rotations for Emergency Medicine and Pulmonary Critical Care residents
- Ultrasound skills sessions for Pulmonary Medicine and Rehabilitation Medicine, Family Medicine, and Emergency Medicine Residents



Photo Credit: ECU News

**1,724 Learners**  
**4,469 Contact Hours**



# ECU Department of Physician Assistant Studies

- Pediatric asthma simulation and slit lamp instruction
- Emergency medicine skills including chest tube insertion, arterial blood gas, needle decompression, central line insertion, and heart rhythm recognition
- Scenarios including mock codes, Advanced Cardiac Life Support, Pediatric Advanced Life Support, and OB-GYN

***667 Learners  
1,769 Contact Hours***



# ECU Health EastCare



- Quarterly continuing education simulation and skills sessions for all EastCare staff
- Interprofessional continuing education with ECU Health Respiratory Therapy to orient providers to a new portable ventilator.
- Clinical personnel skills assessments and new hire onboarding

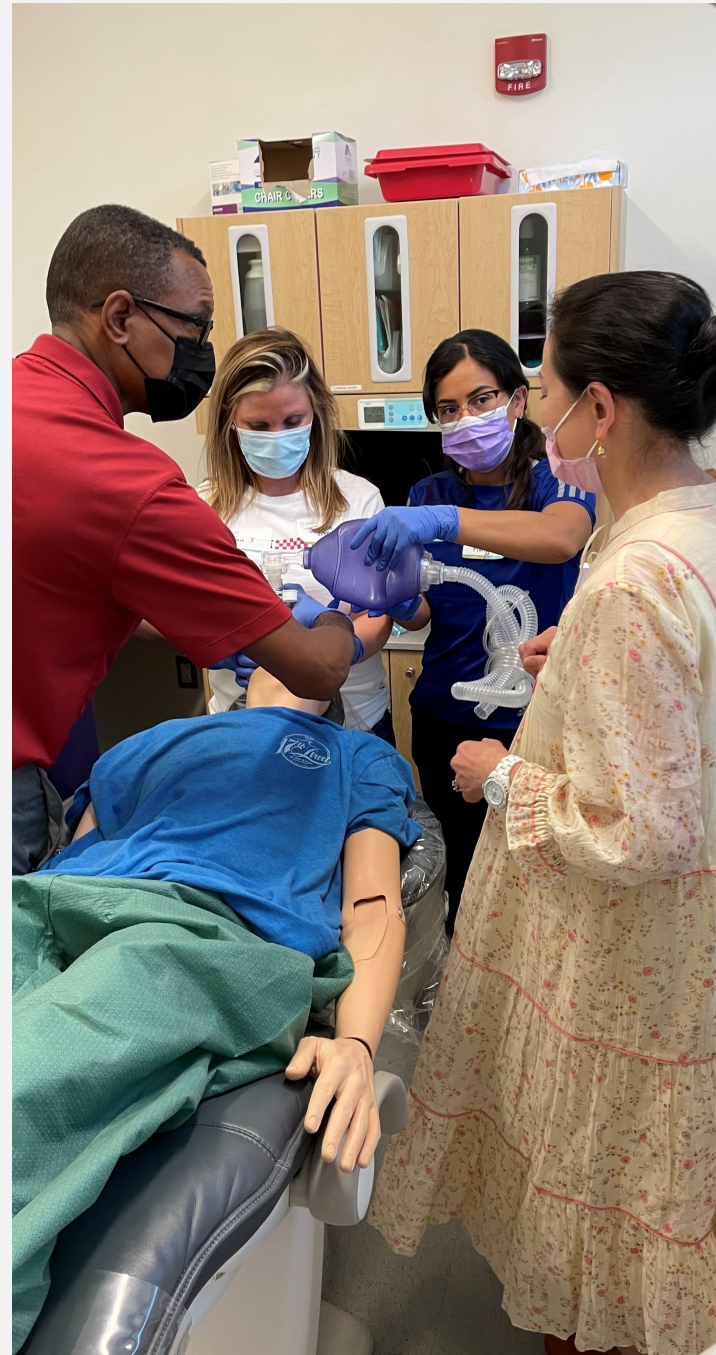
**344 Learners**  
**1,428 Contact Hours**



# ECU School of Dental Medicine

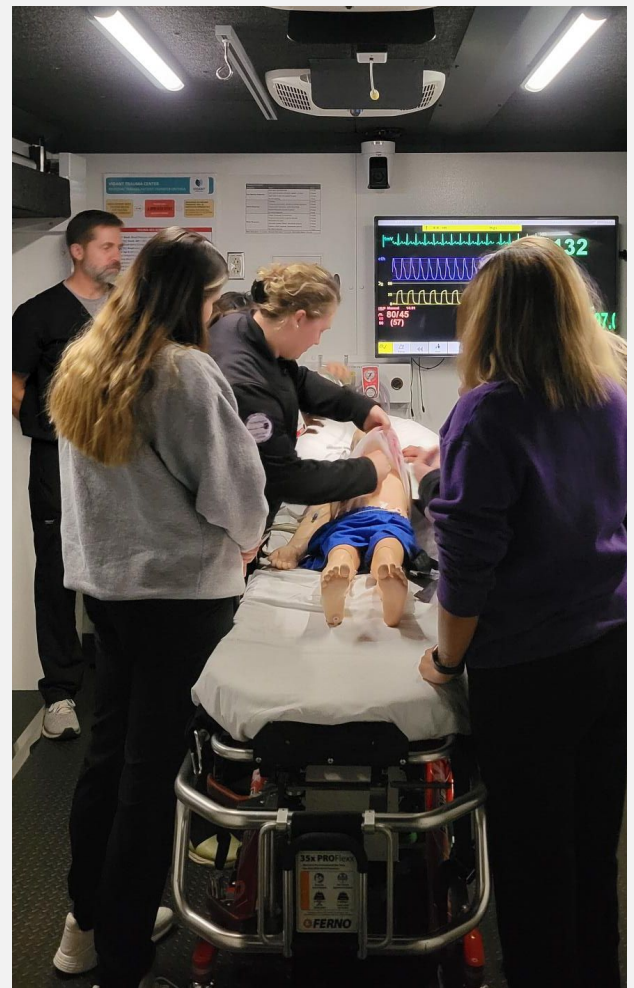
- Safe and Effective Moderate Conscious Sedation and Sedation Emergency Management, a collaboration with BSOM Simulation, Eastern AHEC and ECU School of Dental Medicine
- First Five Minutes® Crisis Intervention training for dental residents
- Moderate sedation airway, suture practice, and IV access skills session for dental residents

**39 Learners**  
**128 Contact Hours**



## Mobile Programs

- BSOM Simulation and ECU Health Trauma Service led pediatric trauma scenarios at Carolina East Medical Center, UNC Health Wayne, and Onslow Memorial Hospital in the Healthcare Simulation Unit (HSU).
- The HSU was featured in the regional HOSA Conference at Eastern AHEC.
- The ECU Health Injury Prevention team used the HSU to facilitate scenarios for ECU Health regional staff at the Pediatric Trauma Core Series Conference.
- The MV-22 Osprey Military Transport Simulator was transported to Fort Bragg as part of the Joint Innovation Medical Symposium, in collaboration with military training group, Ragged Edge Solutions.



**211 Learners**  
**574 Contact Hours**

# Interprofessional Activities

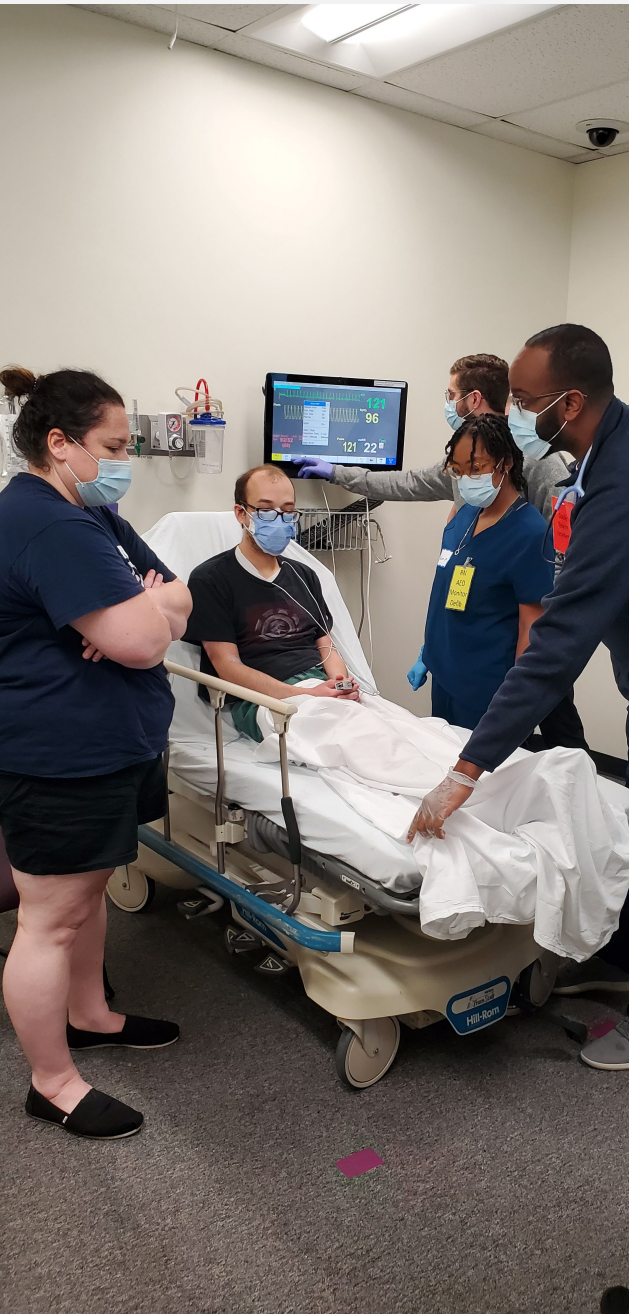
- BSOM's Emergency Medicine Interest Group Interprofessional Trauma Emergency Assessment and Management (I-TEAM) Day included BSOM, ECU Nursing and Physician Assistant Studies students to manage a mass-casualty event. Simulated patients were moulaged by students from ECU School of Theater and Dance.
- BSOM Simulation, ECU College of Nursing, and School of Social Work scenarios created a patient overdose and rehabilitation scenario.
- Weekly ECU Internal Medicine simulation and skills sessions continue with residents, fellows, and ECU and Pitt Community College nursing students and preceptors.



- ECU Health PICU and NICU skills day for APPs, residents, fellows, attendings, and CTT.
- Central Venous catheterization course with residents and advanced practice providers.



# Standardized Patients



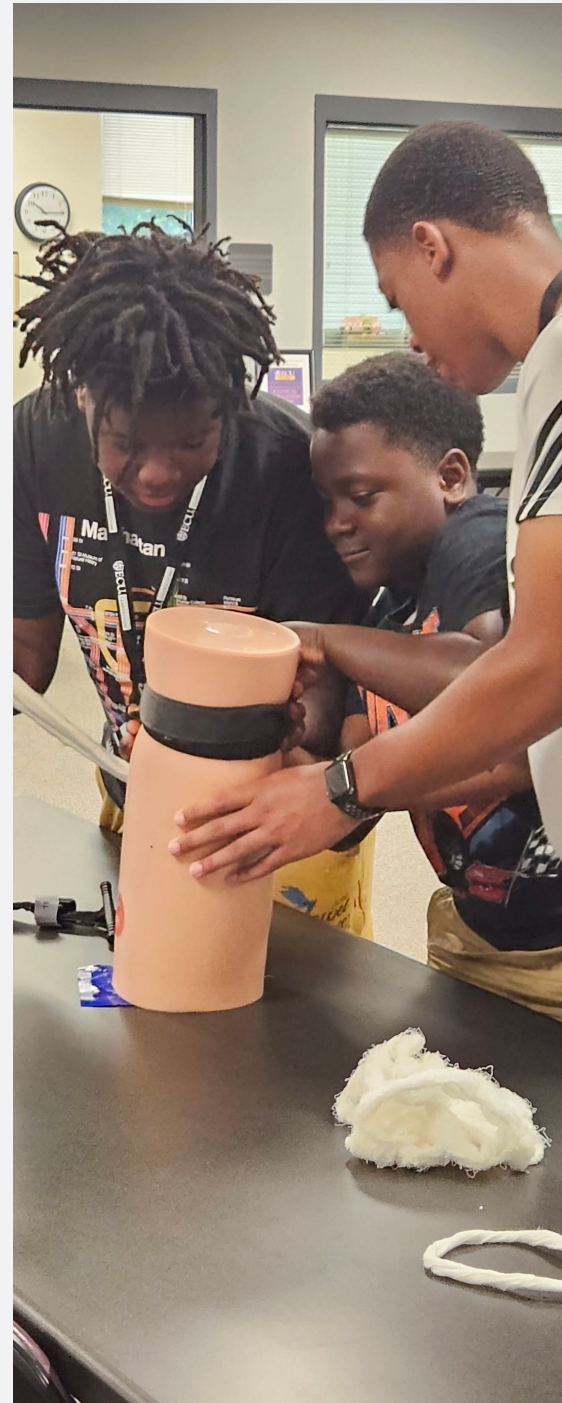
The Office of Clinical Skills continues to provide standardized patients (SPs) and ongoing support for our programs. SPs act as patients, family members, and debriefers during simulation activities. The use of SPs increases realism and allows students to practice their communication skills during clinical scenarios.

*“The patients were awesome and gave great feedback!” - BSOM M2 student*

**188 Standardized Patients  
600 Contact Hours**

# Community Education and Service

- BSOM Simulation gave tours and demonstrations to over 250 middle school, high school, and undergraduate students this year.
- BSOM students led the Student National Medical Association annual conference to demonstrate CPR, tourniquet application, and intubation to high school students.
- BSOM Simulation worked with the Office of Diversity Affairs and medical students to hold two events for Brody RISE, a Pre-College Program for middle and high school students from diverse backgrounds.



***380 Learners  
1,200 Contact Hours***

# New Medical Education Building

The planning and design for the new medical education building officially began in August. The Office of Clinical Simulation and the Office of Clinical Skills will be significant components of the new building.



Photo Credit: Smith Group

Together, they will share three floors and over 30,000 sq ft of space dedicated to simulation and standardized patient-based education.

The new building is scheduled to open Fall 2027.



## New Equipment

Health Sciences Academic Affairs, Graduate Medical Education, and ECU Health contributed funds to purchase new capital equipment, including:

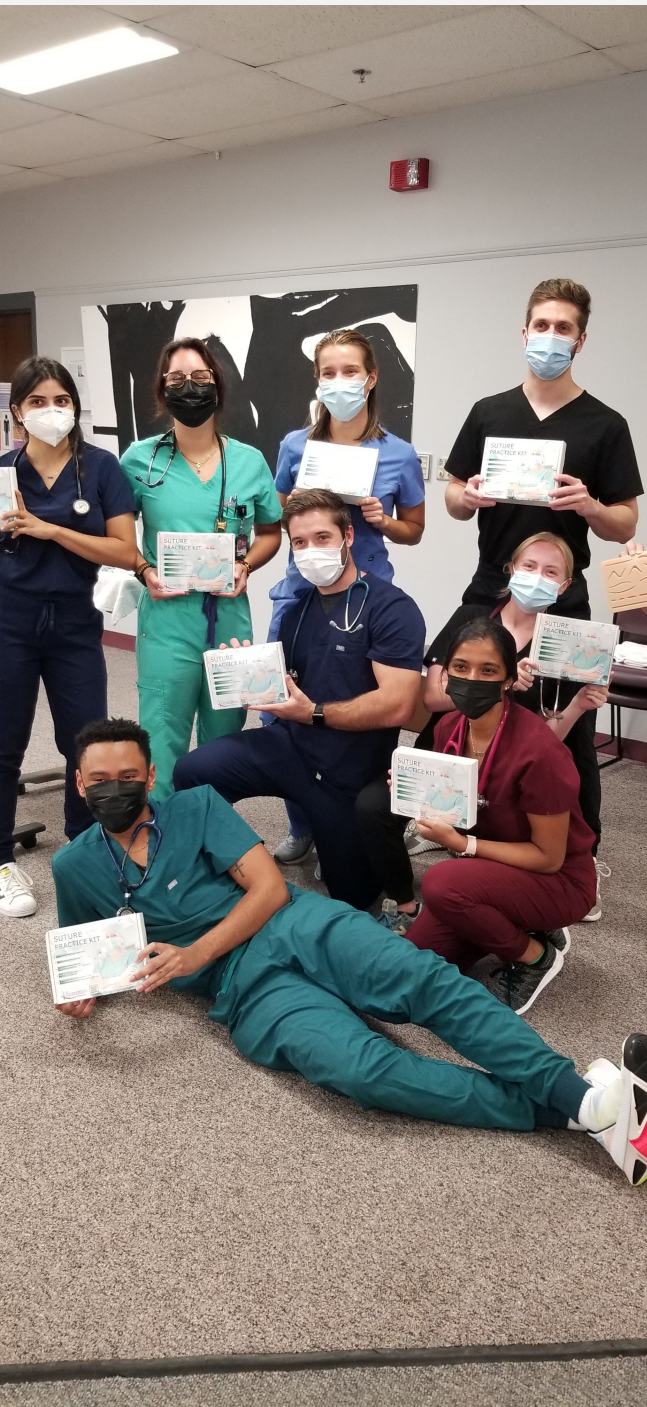
- Simulab Pacerman for transvenous pacing
- Simbionix Ultrasound Mentor for point of care ultrasound
- Laerdal SimMan3G with dark skin tone and trauma capabilities



The Department of Physician Assistant Studies purchased a new arterial blood gas (ABG) trainer and new pericardiocentesis trainer that will be housed in the ICSP so all health sciences students will have access to these trainers.



# Sponsored Activities and Product Support



- Donation of online educational program, suturing pads and instruments from BSOM Alumni Dr. Patrick O'Malley, class of 2004.
- Childress Foundation Grant Funding with ECU Health Pediatric Trauma for regional education with the Healthcare Simulation Unit.
- Donation of funds from ECU Health Medical Center Medical Staff to support the Central Venous Line course for residents, fellows, and APPs.
- ECU Parents Fund Grant for dark skin tone airway task trainer to increase diverse patient representation in clinical training
- Johnson and Johnson Medical Device Companies Educational Grant for suture supplies.

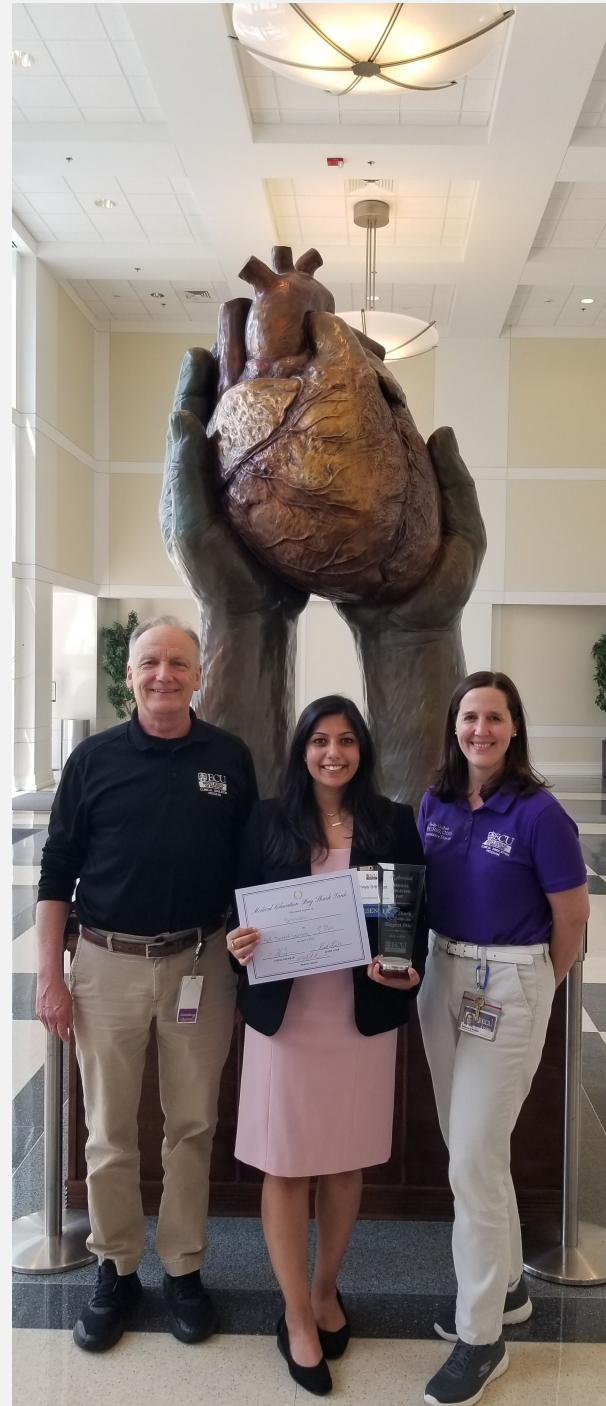
## Staff Achievements

- Gilbird, R. M., Robey, W. C. III, Bennett, Schiller, D. Mobile Simulation. In: Defining Excellence in Simulation Programs (Second Edition). Wolters Kluwer, 2022.
- Kim Haga, Simulation Program Coordinator, received Basic Life Support instructor certification.
- Jessica Cringan, Simulation Specialist, earned an Associate in Applied Science Information Technology-Network Management and Cyber Security.
- Becky Gilbird, Administrative Director, achieved Certified Healthcare Simulation Operations Specialist – Advanced status by the Society for Simulation in Healthcare.
- Becky Gilbird was accepted by the Society for Simulation in Healthcare as an accreditation site reviewer.



# R e s e a r c h

- Steve Taylor MHS, Dr. Jennifer Bennett and Dr. Roberto Portela, ECU Emergency Medicine and EMS did a research study assessing the skill retention of the cricothyrotomy procedure by Pitt County EMS.
- Dr. Yaolin Zhou worked with the ICSP to create simulated encounters between medical students and standardized patients as part of a research study.
- Divya Srinivas, M3 student, won first place for her research project at the 9th Annual Medical Education Day: Shark Tank session - Using a self-directed learning technique for learning suturing skills: Does medical student self-assessment agree with that of faculty observers?





# Faculty Development

- BSOM Simulation participated in the Pirates Map to Teaching Excellence Conference by providing expertise, equipment and a hands-on way to demonstrate different learning styles.
- Online Introduction to Basic Simulation for Faculty. L. Gantt, W. Robey, B. Gilbird, ECU College of Nursing, BSOM Interprofessional Clinical Simulation Program, ECU Health Medical Center, EAHEC, January 2023-present.
- Becky Gilbird participated in a Director's Panel presentation at the International Meeting for Simulation in Healthcare in Orlando, FL.



# Media

- ECU BSOM Clinical Simulation Program SimNews (quarterly newsletter)
- Dr. O'Malley's gift was featured in the August 2022 issue of The Scope, the newsletter of ECU Health Sciences.
- ECU Emergency Health Residents hone skills on Wilderness Day (WITN, April 13, 2023)
- Health Sciences Students Join Forces for Interprofessional Medical Emergency Training (ECU News, Nov. 28, 2022)



# C o n t a c t   i n f o r m a t i o n

Interprofessional Clinical Simulation Program  
Brody School of Medicine  
600 Moye Blvd, Room 1L09  
Greenville, NC 27834

(252) 744-3251

[csc@ecu.edu](mailto:csc@ecu.edu)

[medicine.ecu.edu/clinicalsimulation](http://medicine.ecu.edu/clinicalsimulation)

