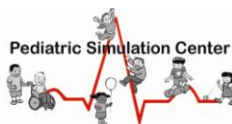


*Birmingham Magazine, December 2013 issue*

# Pediatric Simulation Center Annual Report 2013



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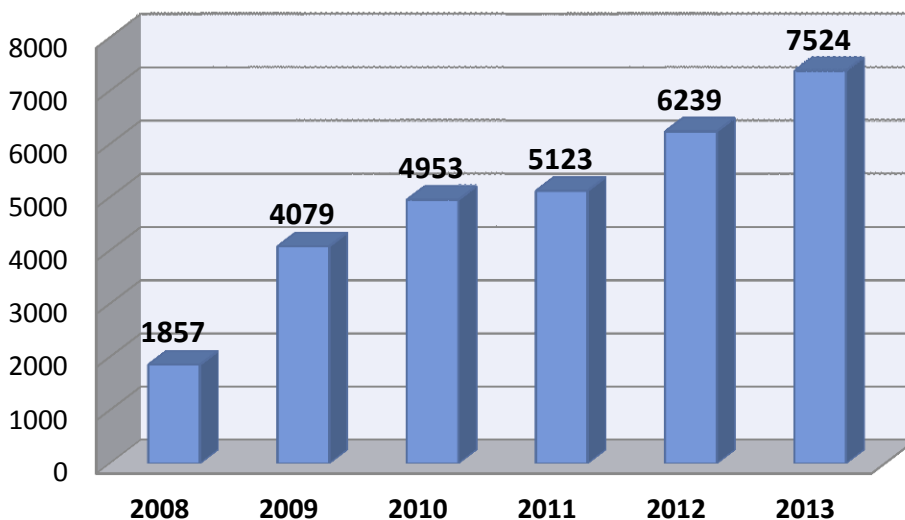
*Children's staff explore the features of the preemie simulator at **Simply Amazing** - our 5<sup>th</sup> year and 25,000<sup>th</sup> learner Open House Celebration.*

# Highlights

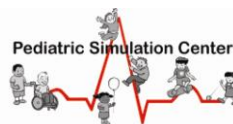
**In 2013, the Pediatric Simulation Center celebrated its 5<sup>th</sup> year and 25,000<sup>th</sup> learner.** Throughout the year, the Center conducted:

- 1,118 simulation scenarios
- 15 PALS simulations
- 17 Mock Codes / 9 Mock Traumas
- 34 sessions for New Graduate nurses
- 16 family education simulations
- 23 Neonatal Resuscitation simulations
- 19 Nursing Orientation simulations
- 718 simulation sessions
- 946 hours of simulation

## Number of Learners per Year



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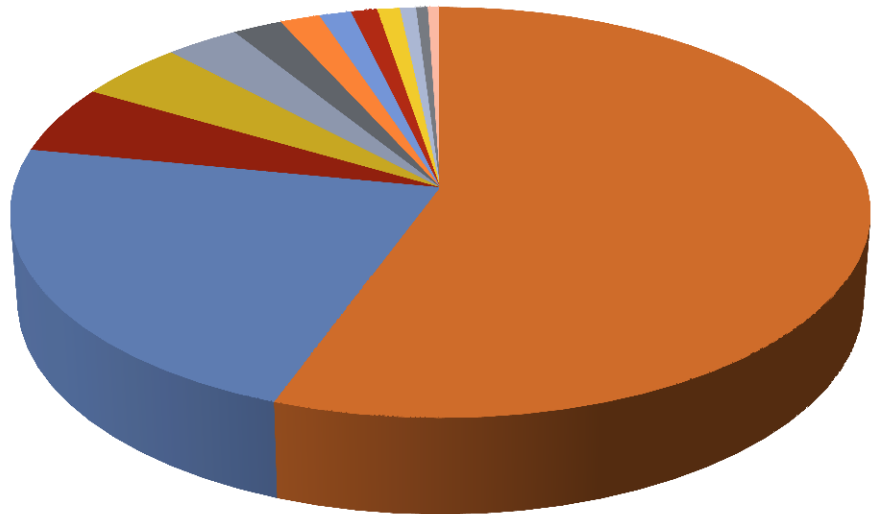
# Impact at Children's

The Pediatric Simulation Center continues to focus on mission based activity. Our mission is to integrate simulation throughout the hospital in a structured learning environment to promote excellence in clinical care, patient safety, and education for all pediatric healthcare practitioners and teams. In 2013, the center encountered 14 different types of internal learners including patient and family members. Focusing on interprofessional education as well as patient and family education furthers the Center's impact and helps ensure safe and quality care for our patients. In 2013, the Center had 15,836 learner contact hours and educated 5,237 internal staff members.

*A five year old wireless mannequin intubated and ready for transport from the ED to the PICU.*

## Our Learners in 2013\*

- RN (3427)
- MD (1100)
- Clinical Assistant (172)
- Respiratory Therapy (148)
- Pharmacy (101)
- Radiology Tech (68)
- Patient & Family (55)
- PT / OT (44)
- Lab (36)
- Chaplain (31)
- Psychology Tech (22)
- Sleep Tech (16)
- Social Work (15)
- Registered Dietician (2)



\*Numbers do not include students.



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# Student Learning

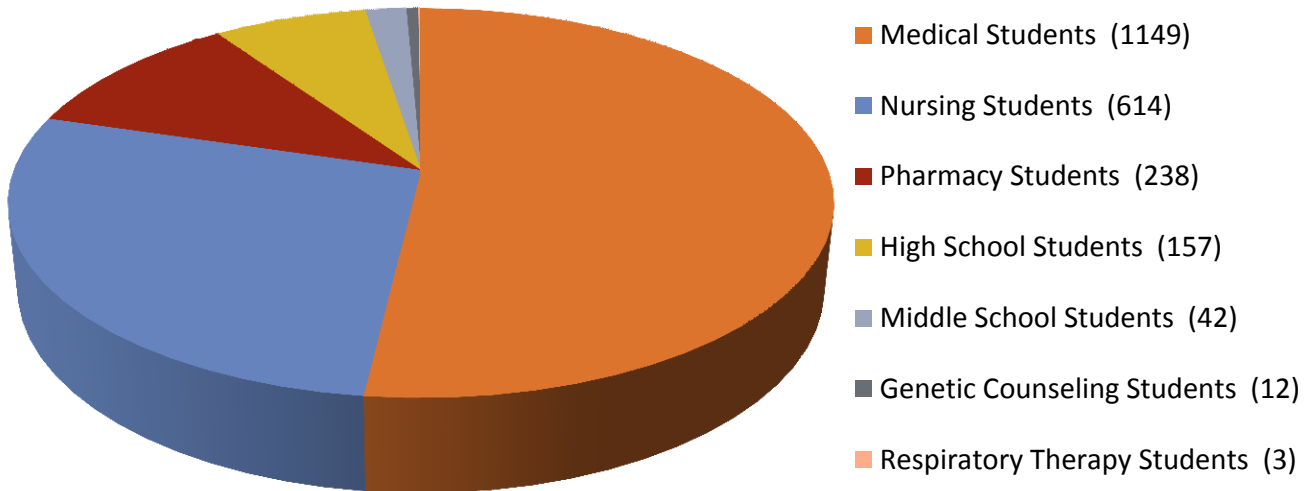
In 2013, the Pediatric Simulation Center conducted:

- 46 medical student simulations
- 77 nursing student simulations
- 12 simulations for genetic counseling students
- 9 tours for middle school and high school students
- 8 courses for pharmacy students

The Center also mentored 11 third year medical students during their two month Scholarly Activity Block and 11 fourth year medical students during two and four week elective periods.



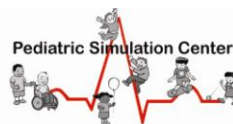
*A scholarly activity medical student participates in a Mock Trauma with the rest of the trauma team.*



The Center offers pediatric simulation for seven nursing schools including UAB, UA, Samford University, Jefferson State, Lawson State, Jacksonville State, and Wallace State Community Colleges while on their pediatric rotation. Medical students from UAB and pharmacy students from Samford University both attend simulation sessions during their pediatric rotations. Respiratory therapy students and genetic counseling students from UAB also participated in pediatric simulation. In 2013, the Center educated 2,172 students.



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# Outreach

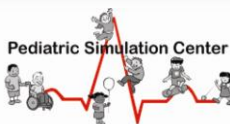
*(Left) School Nurses care for a child having a seizure on a school bus.  
(Below) School Nurses practice tracheostomy care for a young student.*

In 2013, the Pediatric Simulation Center led a variety of simulations focused on improving pediatric care for community members and parents.

- 109 school nurses attended 2 hour simulation sessions focusing on common chronic illnesses in school children
- 43 teenagers observed a simulation during the Trauma Prevention Program
- 55 patient family members attended simulation to practice tracheostomy and/or home ventilator emergencies prior to discharge
- 26 middle school students participated in the monthly Science Career Scholars program which introduces students to healthcare careers



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*SimBaby setup for bedside surgical reentry in the CVICU.*

# Curriculum Development

The Pediatric Simulation Center implemented 13 new simulation courses in 2013, bringing our total number of course offerings to 90 courses.

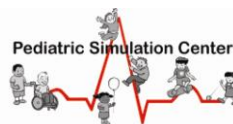
- Tracheostomy Emergencies for patient families
- Nutritional Assessment for Residents in collaboration with Clinical Nutrition
- Children's of Alabama Neonatal Nurse Practitioner Skills Lab
- New Graduate Nursing Course
- Delivering Difficult News in collaboration with Palliative Care
- Bedside Nursing Report
- Critical Care Skills Lab
- Endocrine and Diabetes Management
- Unit Specific New Graduate Nursing Course
- Motivational Interviewing for smoking cessation
- Wound Care and Prevention
- Pediatric Cardiovascular ICU in situ Course
- Science Career Scholars (K-12 program)



*SimBaby in the CVICU for in situ simulation.*



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# Research

*This page listing includes publications and presentations from 2013. For a comprehensive list of our publications and presentations, please visit [www.childrensal.org/PediatricSimulationCenter](http://www.childrensal.org/PediatricSimulationCenter)*

## Publications

White ML, Gilbert S, Youngblood AQ, Zinkan JL, Martin R, Tofil NM. High-fidelity simulations for orthopaedic residents. *Journal of Bone & Joint Surgery*. 2013;95:e701-704. PMID:23023465

Holt RL, Tofil NM, Hurst C, Youngblood AQ, Peterson DT, Zinkan JL, White ML, Clemons JL, Robin NH. Utilizing high-fidelity crucial conversation simulation in genetic counseling training. *American Journal of Medical Genetics*. 2013; Part A 9999:1-5.

Tofil NM, Zinkan JL, Youngblood AQ, Rutledge C, Stone J, Peterson DT, Slayton D, Makris C, Magruder T, White ML. Ventilator caregiver education through the use of high fidelity pediatric simulators: A pilot study. *Clinical Pediatrics*. 2013;52(11):1038-43. doi: 10.1177/0009922813505901

Tofil NM, Vankineni K, Zinkan JL, Niebauer J, Zinkan JL, Youngblood AQ, Harrington K, Peterson DT, White ML. High fidelity simulation enhances learning during a third year medical student pediatric clerkship. *Medical Science Educator*. 2013;23(3): 313-320.



## Presentations

White ML, Youngblood AQ, Zinkan JL, Peterson DT, Tofil NM. The day the simulator died -- Using simulation to foster communication about death and dying. 5th International Pediatric Simulation Symposia and Workshops, New York, NY, April 2013.

White ML, Zinkan JL, Youngblood AQ, Peterson DT. One size fits all: Adapting scenarios for non-traditional audiences and varying levels of learning. 5th International Pediatric Simulation Symposia and Workshops, New York, NY, April 2013.

White ML, Tofil NM, Bateman L, O'Neill L, Youngblood AQ, Zinkan JL, Dure L, Needham B. Use of high-fidelity simulation to explore pediatric critical care and emergency physicians' communication surrounding end-of-life care. 5th International Pediatric Simulation Symposia and Workshops, New York, NY, April 2013.

White ML, Tofil NM, Joliffe C, Zinkan JL, Youngblood AQ, Peterson DT, Yung YY, Bernard D. A simulation course focusing on forensic evidence collection improves pediatric knowledge and standardizes curriculum for child abuse. 5th International Pediatric Simulation Symposia and Workshops, New York, NY, April 2013.

Nassetta LB, Tofil NM, Youngblood AQ, Zinkan JL, Eschborn S, Peterson DT, White ML. Diagnostic error in the care of simulated pediatric inpatients. Pediatric Hospital Medicine Conference, New Orleans, LA, August 2013.

## Posters

Tofil NM, King C, Dollar J, Jarrell S, Zinkan JL, Youngblood AQ, Peterson DT, White ML. Simulated ventricular fibrillation in an anesthetized pediatric patient. 13<sup>th</sup> Annual Meeting on Simulation in Healthcare, Orlando, FL, January 2013.

Tofil NM, Holt L, Peterson DT, Clemons J, Youngblood AQ, Zinkan JL, White ML, Robin N. The use of high fidelity simulation in genetic counseling and genetic medical education. 13<sup>th</sup> Annual Meeting on Simulation in Healthcare, Orlando, FL, January 2013.

Tofil NM, Morris J, Peterson DT, Watts P, Leon K, Epps C, Harrington K, Bartolucci A, Pierce C, White ML. Interprofessional high-fidelity simulation training improves knowledge and teamwork in nursing and medical students during internal medicine third year clerkship. 13<sup>th</sup> Annual Meeting on Simulation in Healthcare, Orlando, FL, January 2013.

White ML, Tofil NM, Joliffe C, Youngblood AQ, Zinkan JL, Peterson DT, Ying YY, Bernard D. A simulation course focusing on forensic evidence collection improves pediatric knowledge and standardizes curriculum for child abuse. 13<sup>th</sup> Annual Meeting on Simulation in Healthcare, Orlando, FL, January 2013.

Tofil NM, Burt H, Peterson DT, Zinkan JL, Youngblood AQ, Eberhardt AW, White ML. Development of a cost-effective portable seizure generating device - a medical engineering partnership. 5th International Pediatric Simulation Symposia and Workshops, New York, NY, April 2013.

Zinkan JL, White ML, Rutledge C, Youngblood AQ, Peterson DT, Stone J, Tofil NM. Ventilator caregiver education through the use of high fidelity pediatric simulators: A pilot study. 5th International Pediatric Simulation Symposia and Workshops, New York, NY, April 2013.



# Faculty & Staff

## Medical Director

Nancy M. Tofil, MD, MEd

## Medical Co-Director

Marjorie Lee White, MD, MPPM, MEd

## Nurse Educators

Amber Q. Youngblood, BSN, RN, CPN

J. Lynn Zinkan, MPH, RN, CPEN, CHSE

## Director, Simulation Education & Research

Dawn Taylor Peterson, PhD, EdS, MEd

## Adjunct Faculty

Steve Baldwin, MD, Pediatric Emergency Medicine

Michael Barnett, MD, Palliative Care Medicine

Kim Benner, PharmD

David Bernard, MD, Pediatric Emergency Medicine

Carl Coghill, MD, Neonatology

Jenny Dollar, MD, Pediatric Anesthesiology

James Gambrell, MD, General Pediatrics

Chris Jolliffe, RN, Sexual Assault Nurse Examiner

Shruti Kant, MD, Pediatric Emergency Medicine

Collin King, MD, Pediatric Anesthesiology

Linnea Larson-Williams, MD, Pediatric Endocrinology

Lauren Nassetta, MD, General Pediatrics

Ashley Nichols, MD, Palliative Care Medicine

Robert Richter, MD, General Pediatrics

Chrystal Rutledge, MD, Critical Care Medicine

Paul Scalici, MD, General Pediatrics

Amanda Soong, MD, General Pediatrics

Mary Worthington, PharmD

## Supplemental Nursing Staff

Leslie Hallmark, RN

Tammy Pope, RN

Robin Prater, RN

Kandi Wise, RN

Annitrice Young, RN

Carrie Norwood, RN



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# Course Offerings

<b>Simulation Course</b>	<b>Frequency</b>	<b>Learners per Session</b>	<b>Consultant</b>	<b>Types of Learners</b>
*Acute Care Nursing Transition Course	As requested	5-10	Unit Based Educators	Nurses, Staff
Acute Care Skills Lab	Quarterly	100+	Unit Based Nursing Educators	Nurses
*Advanced Pediatric Life Support	Yearly	20-25	Emergency Medicine Faculty	Nurse Practitioners, Family Practice and Emergency Medicine Physicians and Pediatricians
After Hours Emergencies	As requested	2-8	Unit Based Nursing Educators	After Hours Nurses and Physicians
Asthma Protocol Education	As requested	2-6	Tony Powers, RRT	Respiratory Therapists, Nurses
Basic Airway Skills	Yearly	8-12	David Bernard, MD, Pediatric Emergency Steve Baldwin, MD, Pediatric Emergency Alyssa Cooper, RN	ED, PICU Fellows, Nurses, Respiratory Therapists
Bedside Nurse Report				Nurses
Care of the Ventilated Patient	As requested	3-8	Critical Care Unit Based Educators, Respiratory Therapy	Nurses, Respiratory Therapists
Burn Unit Nursing Course	As requested	10-15	Kelly Pinion-Smith, RN, Unit Educator	Nurses, BU/Surgery staff
Cardiovascular Nursing	As requested	3-10	Jeffrey Alten, MD, Pediatric Critical Care, Paula Midyette, RN, Unit Educator	CV Nurses, Nurse Practitioners, Pharmacy, Respiratory Therapists
CHAT CATS	As requested	6-15	Leslie Hayes, MD, Pediatric Critical Care, Carrie Norwood, RN, Robin Praytor, RN, Educator	All RN and RT on Rapid Response Team

\* Courses with a red asterisk were offered in 2013 but were not requested and therefore not taught.



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# Course Offerings

Simulation Course	Frequency	Learners per Session	Consultant	Types of Learners
Chemotherapy Certification	Monthly	4-7	Beth Benton, RN, CPON – Unit Educator, Kim Winter, MD	Nurses, Hematology Fellows
Children's South Skills Lab	Yearly	100+	Robin Praytor, RN, Educator	Nurses
Clinical Assistant Program	As requested	2-6	Unit Based Educators	Clinical Assistants
Crisis Resource Management Course	Yearly	6	Nancy Tofil, MD Marjorie Lee White, MD	All new pediatric critical care, emergency medicine fellows, and surgery fellows
Critical Care Skills Lab				Critical Care Nurse Educators
CRNA Course	As requested	2-3	LeAnn Logan, CRNA	Children's of Alabama CRNAs, CRNA Students
*CV Respiratory Therapy Course	As requested	3-6	David Smith, RRT	Respiratory Therapists
Death and Dying Course	Yearly	35	Mark Knoper, Pastoral Care, Peggy Williams-Logan, LSW	All Emergency Medicine and PICU Fellows, Nurses, Chaplains, Social Workers
Delivering Difficult News	Monthly	2-4	Michael Barnett, MD Ashley Nichols, MD	Pediatrics Residents during PICU rotation
*Dialysis Nursing	As needed	15	Unit Based Educator	Dialysis Nurses
ECMOs	As requested	10-20	Debbie Laney, RN	ECMO team (RN, MD, RT, etc)
ED Nursing Sims	Monthly	5-10	Lisa Maloney, RN Unit Educator	Nurses, CAs
Endocrine	Monthly	2-5	Linnea Lawson-Williams, MD	Pediatric Residents during Endocrinology rotation

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# Course Offerings

Simulation Course	Frequency	Learners per Session	Consultant	Types of Learners
First Five Minutes of a Code	As needed	3-10	Lynn Zinkan, RN Amber Youngblood, RN, Kandi Wise, RN	Nurses, CAs
Fixed Wing Critical Care Transport	As requested	8-10	Nancy Tofil, MD Marjorie Lee White, MD Lynn Zinkan, RN Amber Youngblood, RN	Private, corporate critical care transport RNs, RTs, and MDs
Foreign Body Removal for ENT Residents (conducted in Operating Room)	Yearly	15-20	Audie Wooley, MD, ENT, Brian Wiatrak, MD, ENT, Tabitha Bradley, RN	ENT Residents, OR nurses and OR staff
Forensic Evidence Collection in Sexual Assaults	Monthly	2-5	Chris Jolliffe, RN, Sexual Assault Nurse Examiner David Bernard, MD, Pediatric Emergency Medicine	Pediatric residents and medical students on Behavior and Development rotation
*General Inpatient Pediatric Service	As requested	2-4	Nancy Tofil, MD Marjorie Lee White, MD	Attending hospitalists
Genetic Counseling	6 sessions per semester	1	Lynn Holt, MSN, CGC Dawn Taylor Peterson, PhD	Genetic Counseling Graduate Students
Genetics Residents / Genetic Counselors	As requested	1-2	Nathaniel Robin, MD Lynn Holt, MSN, CGC	Genetics Residents and Genetic Counseling Graduate Students
Geriatrics in Pediatrics	Monthly	3-5	Amanda Soong, MD, General Pediatrics	Pediatric Residents, Medical students on Behavior and Development rotation
GI Simulation Course	Monthly	2-3	Jeanine Maclin, MD	Pediatric Residents on GI rotation

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# Course Offerings

Simulation Course	Frequency	Learners per Session	Consultant	Types of Learners
*GRID / Seizure Simulation Course	As requested	6-15	Monisha Goyle, MD Jeffrey Blount, MD	Nurses
*Hematology / Oncology Nursing	As requested	5-8	Beth Benton, RN, Unit Educator	Nurses
Home Ventilator Emergencies for Caregivers	As requested	2-3	Donna Slayton, RN, Pediatric Pulmonary, Julie Stone, RN, Pediatric Pulmonary, Brandon Weems, RRT	Parents of children requiring home ventilators
Hospital Mock Codes	Bi-Monthly	10-20	Nancy Tofil, MD	Entire Code Team (MD, RN, RT, Pharmacy, etc)
Inpatient Ward Simulation Course	Monthly	12-15	Lauren Nassetta, MD Paul Scalici, MD	Pediatric residents, medical students on inpatient ward teams
Intern Cross-cover	Yearly	22	Chief Residents, Nancy Tofil, MD, Marjorie Lee White, MD	All new pediatric interns
Intern Pediatric Skills Course	Yearly	22	Nancy Tofil, MD Marjorie Lee White, MD	All new pediatric interns
Introduction to Health Professions	As requested	4-50	Simulation Center Staff	High School and College Students
*Intubation Workshop	As requested	30	Nancy Tofil, MD, Marjorie Lee White, MD	Medical students
IV Therapy	Bi-Monthly	3-6	Angela Lee, RN	Nurses
Motivational Interviewing	Yearly	5-6	Valerie Tarn, MS, RD, LD Theresa Rodgers, CRNP Amber Youngblood, RN Dawn Taylor Peterson, PhD	Nurses, Social Workers, Registered Dieticians
Neonatal Intensive Care Unit Nursing	Bi-Monthly	3-12	Tammy Pope, RN, Educator, Dr. Coghill, Neonatology	Nurses and Nurse practitioners
Neonatal Nurse Practitioner Skills	Yearly	15-20	Carl Coghill, MD	Neonatal Nurse Practitioners
Neonatal Resuscitation Program	As requested	2-20	Tammy Pope, RN, Neonatal Intensive Care Unit	Nurses, Physicians, Respiratory Therapists
New Graduate Nursing Course	Weekly	35 – 48	Amber Youngblood, RN Lynn Zinkan, RN Dawn Taylor Peterson, PhD	New Graduate nurses

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# Course Offerings

Simulation Course	Frequency	Learners per Session	Consultant	Types of Learners
New Hire Nursing Assessment Skills	Quarterly	10-40	COA Education Council	Newly hired nurses
Nursing Service Orientation	Twice Monthly	3-40	Joan Carlisle, DSN, RN, Debra Stewart, MSN, RN, Lynn Zinkan, MPH, RN, Amber Youngblood, RN	Newly hired nurses
Nutrition	Monthly	4-10	Sue Teske, RD Amy Morse, MS, RD Leight Hardy, RD Dawn Taylor Peterson, PhD	Pediatric Residents on General Inpatient Service
Tracheostomy Emergencies	As requested	2-3	Bedside Nursing Trach educators	Bedside nurses, Parents of children with tracheostomies
OB/GYN Workshop	Yearly	20-30	John Woods, MD, OB/GYN	PEM Fellows, EM Residents and interested nurses
Pediatric Advanced Life Support Course	Monthly	50-90	Terri Coco, MD, Pediatric Emergency Medicine, Debra Stewart, RN, Leeanne Logan, CRNA, Dannelle Paz, CRNA	Healthcare personnel and new Pediatric Interns
Pediatric Anesthesia Course	Monthly	2	Collin King, MD, Anesthesiology Jenny Dollar, MD, Anesthesiology	UAB anesthesia residents during pediatric rotations
*Pediatric Blood Pressure Measurement	As requested	2-10	Lynn Zinkan, RN Amber Youngblood, RN	Psychiatry assistants, clinical assistants, Clinic nurses
Pediatric Clerkship Course	Weekly	6-15	Abdul Latiff, MD, Nancy Tofil, MD Marjorie Lee White, MD	UAB medical students during inpatient pediatric rotation, UAB nursing students, Samford pharmacy students
Pediatric Emergency Medicine Airway Course	Yearly	3-10	David Bernard, MD, Pediatric Emergency Medicine Steve Baldwin, MD, Pediatric Emergency Medicine	PEM Fellows, Faculty, Respiratory Therapy



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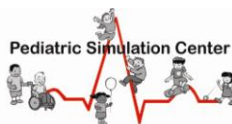
# Course Offerings

<b>Simulation Course</b>	<b>Frequency</b>	<b>Learners per Session</b>	<b>Consultant</b>	<b>Types of Learners</b>
Pediatric Emergency Medicine Attending	As requested	2-3	Marjorie Lee White, MD	ED Attendings
Pediatric Emergency Medicine Fellows	As requested	4-10	Marjorie Lee White, MD	PEM Fellows
Pediatric Intensive Care Unit Faculty Course	Quarterly	8-15	Nancy Tofil, MD	PICU Attendings, PICU Fellows
*Pediatric Orthopedic Course	Monthly	2-3	Shawn Gilbert, MD, Orthopedics	UAB orthopedic residents during their pediatric rotations
Pediatric/Neonatal Critical Care Transport Course	As requested	2	Jason Peterson, RN, Chris Mathis, RN	RN, RT
PICU Course	Weekly	4-10	Nancy Tofil, MD	PICU residents, Nurses, Pharmacists, Respiratory Therapy
*PICU Nursing	Quarterly	10-30	Delicia Mason, RN, Unit Educator	PICU nurses
Renal Simulation Course	Monthly	2-4	Daniel Feig, MD, Nephrology	Residents on nephrology rotation
*Respiratory Therapy Course	As needed	2-4	Craig Wooten, RRT	Required for all RTs
Resuscitation Course	Weekly	3-10	Marjorie Lee White, MD, Nancy Tofil, MD	Interns, Nurses, Pharmacy, PICU & ED Fellows
RNICU Mock Code	As requested	10-15	Alain Cuna, MD	Pediatric Residents during RNICU rotation, Nurses, Respiratory Therapists
Samford Pharmacy Pediatric Elective Course	Yearly	30	Kim Benner, PharmD, Mary Worthington, PharmD,	Pharmacy students from Samford University
Samford Pharmacy Therapeutic Course	As requested	180	Mary Worthington, PharmD, Jennifer Beall, PharmD,	Pharmacy students from Samford University

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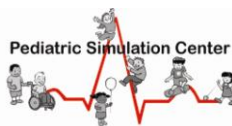
# Course Offerings

<b>Simulation Course</b>	<b>Frequency</b>	<b>Learners per Session</b>	<b>Consultant</b>	<b>Types of Learners</b>
School Nurse Course (K12 RNs)	As requested	2-50	Lynn Zinkan, RN Amber Youngblood, RN	Nurses
Science Career Scholars	Monthly	25	Antonio Lewis Lynn Zinkan, MPH, BSN, RN	Middle School Students
Sedation Course	Yearly	3-6	Mark Buckmaster, MD, Pediatric Critical Care, Jud Barber, MD, Pediatric Emergency Medicine	Physicians, Nurses, staff participating in sedation
*Seizure management	Yearly	4-50	Sula Gillespie, CPNP	Nurses
Simulation Faculty Development	Yearly	10-15	Simulation Center Staff	MD, RN
Simulation for Radiologists	Yearly, as requested	3-6	Stuart Royal, MD, Pediatric Radiology	For all attending radiologists, UAB radiology residents, radiology moonlighters and radiology technologists, and radiology nurses
Simulation for Sleep Technologists	Yearly	3-4	David Lozano, MD, Pediatric Pulmonary	Sleep Technologists
Special Care Nursing	As requested	4-10		Nurses
Special Topics Week-long Course	Biannually	9	Marjorie Lee White, MD	UAB second year medical students
Surgical Airway Skills	Yearly	8-12	David Bernard, MD, Pediatric Emergency Valerie Davis, MD, Pediatric Emergency	ED, PICU Fellows, Nurses, Respiratory Therapists
Trach Ed Training	As requested	30	Alyssa Cooper, RN Unit Educator	Nurses
*Tracheostomy Workshop	As requested	10-20	Donna Slayton, RN, Pediatric Pulmonary Julie Stone, RN, Pediatric Pulmonary Cheryl Jones, RRT	School Nurses
Trauma Prevention Program	Quarterly	10-20	Geni Smith, RN, Trauma Coordinator	Teen participants

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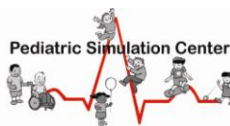
# Course Offerings

Simulation Course	Frequency	Learners per Session	Consultant	Types of Learners
Trauma Simulation Course	Monthly	15-20	Robert Russell, MD, Pediatric Surgery	Trauma team (MD, RRT, RN, pharmacy, chaplain, social worker, radiology tech, etc)
*UAB NP Simulation Course	As requested	15-25	UAB SON Faculty	Nurse practitioner students
UAB Nursing Graduate Transition Course	As requested	5-6	UAB SON Faculty	Nursing students
Undergraduate Nursing Students	As requested	2-8	Various Nursing Instructors	Nursing students
Unit Specific New Graduate Nursing Course	As requested	3-8	Unit Based educators	New graduate nurses
Wound Prevention/Care	3 times per year	35-48	Jennifer Day	New graduate nurses

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