

The Simulation and Educational  
Technology Center at VCOM

# Patient Safety Solutions

Expanding medical education  
beyond the classroom,  
utilizing the strength and  
immediacy of simulation.



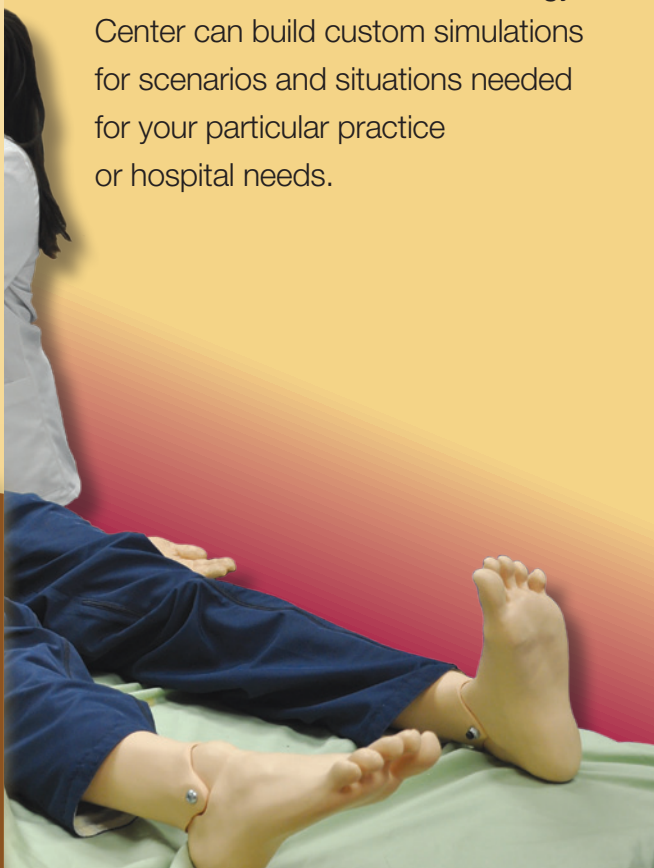
Patient safety  
is of utmost  
importance in the  
health care field today.  
Training health care  
providers to safely  
treat patients  
is a necessity.



The use of realistic simulation  
technology helps your workforce to  
learn and safely practice situations  
in emergency care, surgery and  
general medical practice.

Standardized patient training gives  
providers practice in evaluation and  
assessment, bedside manner and  
practice with real human interaction

In addition to standard scenarios  
listed in this brochure, the staff at  
VCOM's Simulation and Technology  
Center can build custom simulations  
for scenarios and situations needed  
for your particular practice  
or hospital needs.







## Standardized Patient

A Standardized Patient (SP) is a person hired from the local community who is trained to interact with a student in a realistic patient encounter. The purpose of the Standardized Patient program is to provide an interactive learning environment for the student who is focused on achieving humanistic and bio-medical skills. Learners complete an assessment of the SP and develop a care plan based on the clinical presentation portrayed by the actor. This process



## Available Simulations

### Adult Emergency & Trauma

ACLS, Trauma, Medical Emergencies, Mock Code Programs, In-Hospital Performance Improvement modules, Pre-Hospital Provider Education, Continuous Quality Improvement, Root Cause Analysis and many other opportunities

### Pediatrics

Respiratory Emergencies, Non-Accidental Trauma with Seizures, Meningitis with Shock, PALS scenarios & Mock Code Programs

is completed by learners creating an electronic medical record of the patient encounter. This program develops bedside manner, detailed physical examination skills, and documentation abilities beyond the traditional classroom environment. The VCOM Simulation and Educational Technology Center encourages program directors to utilize the center and design SP cases to meet their curriculum needs and improve the clinician's role in practice at their institution.

## Human Patient Simulation

Technological advances in recent years now enable healthcare and educational simulation centers to provide safer mechanisms to promote teamwork, an enhanced communication process, a more detailed focus on quality improvement, and a more deliberate practice for providers. Our simulation environment gives patient care providers the opportunity to experience less frequent, high acuity/high mortality scenarios in a controlled setting. High fidelity, high technology performance-based analysis at our simulation center provides an educational experience unlike any other.



### OB-GYN

Eclampsia, Post-partum Hemorrhage, Shoulder Dystocia, Maternal and Fetal health

### Neonatal

APGAR scoring, Neonatal Resuscitation, Neonatal Assessment

### Customized Scenarios

The Simulation Center encourages "Content Directors" to create their own scenarios that are designed to meet their needs or may utilize "in situ" simulation to accomplish their training goals.

## Facilities

Located in the Corporate Research Center in Blacksburg, Virginia, the Simulation and Educational Technology Center offers state-of-the-art simulation technologies and audio-video recording solutions for all your healthcare needs. VCOM partnered with B-Line Medical in 2008 to deliver robust simulation recording and remote streaming to all learners.

## Simulation Center Environment

- ▶ 11,000 square foot facility for Standardized Patient, High-Fidelity Simulation, Clinical Skills, and Lecture environment
- ▶ Dedicated e-Testing environment with 45 computer stations
- ▶ 10 Standardized Patient Rooms
- ▶ 6 High-Fidelity Simulation Rooms (Pediatrics, OB-GYN, ICU, Surgery 1, Surgery 2, Emergency)
- ▶ 2 Simulation Control Rooms with direct-view through mirrored windows
- ▶ Lecture Room / Debriefing Room
- ▶ Laerdal Simulators: SimMan® 3G, SimMan®, SimBaby®, and ALS Simulator
- ▶ Gaumard Simulators: Noelle® Maternal and Newborn Hal® neonatal
- ▶ Multiple Partial-Task Trainers: Central Line, Lumbar Puncture, Airway, Joint Injection, Ear & Eye Examination, Ultrasound
- ▶ HeartCode™ Advanced Cardiovascular Life Support (ACLS)

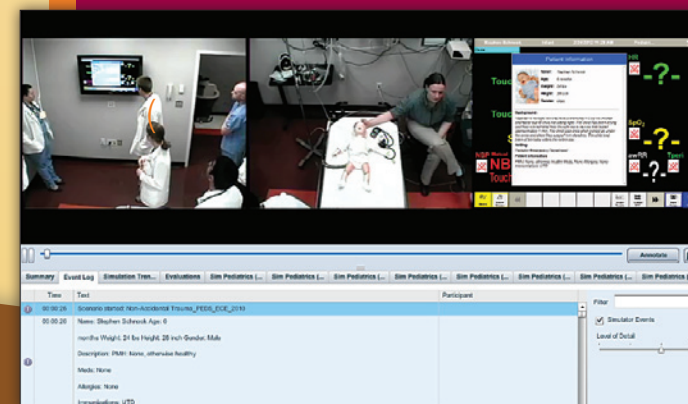
Curriculum may also be designed around Standardized Patients to evaluate staff-patient interactions. The faculty and staff at the Simulation and Educational Technology Center is available to assist with your educational and/or research needs based upon unique learning objectives.



## Clinical Skills

B-Line's interface for recording sessions, monitoring the patient/student flow, and assigning checklists for evaluations.

A number of educational research projects include the use of simulated patients in medical care scenarios as teaching tools in primary medical education.



## SimBridge/SimCapture

Digital archiving of simulation sessions and the standard in debriefing.



---

**High fidelity,  
high technology  
performance-based  
analysis at VCOM's  
Simulation Center  
provides an educational  
experience unlike  
any other.**

---

## **Contact Us**

### **Watson Edwards**

Director of Simulation, Virginia Campus

(540) 231-8495

wedwards@vcom.vt.edu

### **C. Kay Lucas**

Director of Standardized Patient, Virginia Campus

(540) 231-0479

clucas@vcom.vt.edu

Visit our website, **[www.vcom.edu/sims](http://www.vcom.edu/sims)**  
to find out more about utilizing the center.



Edward Via College of  
Osteopathic Medicine

### **The Simulation and Educational Technology Center**

309 North Knollwood Drive

Blacksburg, VA 24060

(540) 231-8495

(540) 231-2001 fax

**[www.vcom.edu/sims](http://www.vcom.edu/sims)**



**VIRGINIA CAMPUS**