A LOOK INSIDE
STRATUS opens as Department of Emergency Medicine simulation center

Team from STRATUS travels to Australia, Malaysia, Korea and Japan to introduce simulation to the Asia Pacific

Why STRATUS?

STRATUS has embraced simulation as more than merely a teaching tool. Our educators, researchers, and simulation teams strive to continuously push the envelope in medical education; all to support safe and effective patient care. We use our creativity and passion to develop new and more robust applications and we share them with the world.

MILESTONES: 2004-2005

- STRATUS opens as Department of Emergency Medicine simulation center
- Team from STRATUS travels to Australia, Malaysia, Korea and Japan to introduce simulation to the Asia Pacific

We are dedicated to improving the quality and delivery of health care through the use of medical simulation and actively advancing the field through clinical and educational research.

Charles Pozner, MD
STRATUS Executive Director
WHO WE ARE

With STRATUS training and technology, you don’t have to be an expert in simulation to realize the benefits of enhanced learning and improved patient safety.

At the Neil and Elise Wallace STRATUS Center for Medical Simulation, we are dedicated to advancing healthcare education, enhancing patient safety, and improving clinical outcomes.

2006-2007

- STRATUS performs needs assessment for Abu Dhabi Ministry of Health and Sheikh Khalifa Medical Center
- Provides first tactical EMS courses for the FBI and Massachusetts State Police

2008-2009

- Works with Laerdal on the development of SimMan 3G
- Accredited as an American College of Surgeons Comprehensive Education Institute

WHO WE SERVE

STRATUS provides clinicians and trainees with opportunities to learn and refine skills in a psychologically safe environment. We work with people who wish to create or enhance their simulation center. We help industry use simulation in a variety of ways.

Using an innovative operational and business model, STRATUS provides simulation experiences for physicians, nurses, allied health professionals, and public safety professionals from around the globe and at all levels of experience and training. We want our attendees to leave STRATUS with the skills necessary to conceive, design, develop, implement, manage and assess curricula utilizing medical simulation.

Programs that clinicians can attend at STRATUS to become better at simulation:

- A two-year fellowship for qualified educators-in-training that includes a Master of Science in Health Professions Education
- A one-year visiting scholarship for qualified international participants that includes a Certificate in Health Professions Education
- A two-week resident elective introducing future educators to simulation
- Specialty-specific clinical training and interprofessional team training
- Customized programs designed to meet specific needs

Our centre’s success is a direct result of the commitment and expertise of the team from STRATUS. Their vision and mentorship have been key ingredients to building a simulation centre that fulfills the needs of our users.

Rajavelu Thirumavalavan, MD
SRM Medical College Hospital, Chennai, India
STRATUS leverages simulation’s array of applications to educate and assess clinicians, perform/promote research and support clinical process improvement. STRATUS also draws on its experience and high-fidelity environment to help teams successfully adopt simulation through consulting and partners with industry to optimize their use of this exciting technology.

For Clinicians
• Educate
• Assess
• Research
• Process improvement

Our interdisciplinary center draws on the expertise of Harvard faculty, nurses, allied health professionals, IT, and simulation specialists. We offer training in almost every specialty using state-of-the-art technology including computer-controlled simulation systems, virtual and enhanced reality, and task trainers. Our high-fidelity simulation suites and fully equipped mock operating room are powerful learning environments in which clinicians can participate in realistic scenarios.

Just as flight simulation offers practice of vital skills and builds pilot confidence, STRATUS enables clinicians to practice a wide variety of technical and non-technical skills; without putting patients at risk. However, we are more than merely comprehensive facilities and advanced technology; our people make the difference.

For Institutions or those who want to develop or enhance their simulation programs, we consult on:
• Determining needs
• Designing and outfitting simulation centers
• Operationalizing and supporting center operations
• Developing faculty
• Licensing and training how to develop curriculum
• Selecting and training staff
• Co-branding

STRATUS offers a menu of consulting services and develops a strategy to meet your specific needs. Leveraging our resources and international experience, we help you navigate the cultural, financial, and political challenges you may face in your world. We help you develop and implement a successful growth strategy supported by comprehensive educational, operational, and financial models.

By partnering with STRATUS and Brigham and Women’s, you will benefit from the backing of a world-class hospital and major teaching affiliate of Harvard Medical School. Our expertise extends well beyond the hospital’s doors. We’ve helped small and large entities take on greater independence as their capabilities, experience, and comfort level grow.

For Industry
• Prototype testing
• Staff training
• Clinician training
• Providing high-fidelity clinical environments for multimedia marketing

Simulation can be a valuable tool for industry. STRATUS has leveraged simulation for staff and clinician education, product development, and as a medical backdrop to create marketing collateral.

2012
• Completes and opens the first simulation center in Kazakhstan for the Astana Department of Health
• Develops a simulation-based Peri-Partum Complications Course with the Argentinian Ministry of Health

2010-2011
• SRM/STRATUS opens at SRM University and Medical Center in Chennai, India
• STRATUS conducts first pulmonary hypertension program for Lung RX, Inc.
How We Do It

Although possessing many of the most advanced simulation technologies available, STRATUS recognizes that the quality of simulation depends on the quality of both faculty and curriculum. STRATUS ensures that healthcare educators acquire the necessary expertise to maximally leverage the simulation experience.

STRATUS creates rare encounters as well as every day clinical presentations incorporating interactive simulation technology. We produce realistic scenarios, where the patient responds to actions taken or omitted, generating a powerful learning environment.

STRATUS utilizes state-of-the-art computer controlled technology as well as home-grown models to meet the specific needs of participants.

Our center includes:
- High-fidelity human patient simulation suites
- A fully equipped mock operating room
- A laparoscopic/endoscopic/bronchoscopic virtual reality arcade
- A PC-based computer laboratory
- An advanced skills lab
- Advanced digital recording technology
- Adaptable classrooms and conference areas enabling enhanced center flexibility

2013-2014
- New England Journal of Medicine publishes first simulation-based research paper conducted at STRATUS
- STRATUS hosts its first international Visiting Scholar from Saudi Arabia

2015-2016
- Receives Society of Simulation in Healthcare Accreditation
- Receives NSBRI/NASA grant to study non-technical skills for long duration space missions
What’s Ahead

In 2003, inspired by a vision to introduce a paradigm shift in healthcare education, STRATUS was born. Since then, we have provided high-quality simulation-based education within our institution, across the street, and around the world. STRATUS also supports the advancement of safe and effective healthcare through contributions to the literature.

The future of simulation and STRATUS is bright. We will continue to refine our expertise, disseminate new knowledge, and evolve simulation in ways that have never been imagined. With this innovative spirit, we will continue to stretch the envelope and share what we learn with the world.

Get In Touch

Whether you are new to the profession or have decades of experience, want to develop an educational offering or an entire simulation center, STRATUS is here to help. We invite you to take a closer look and see for yourself!

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The answer is almost always in the room, it just doesn’t always get to the patient. Simulation-based education is an essential tool if teams are to consistently get the needed answer to the patient.

Charles Pozner, MD
STRATUS Executive Director

VISION FOR THE FUTURE

• Improve quality of care and patient safety by pushing the envelope of simulation
• Promote simulation-based education for all levels of healthcare
• Implement the successful and effective use of simulation globally