

2025 ACS Surgical Simulation Summit

MARCH 20-21 / CHICAGO, IL

#ACSsim

Agenda

Schedule is subject to change. All sessions and meals will be held at the Swissôtel Chicago. Times below are Central (CT).

Thursday, March 20

7:00 am – 8:00 am **Registration, Breakfast & Exhibits**

8:00 am – 8:20 am **Opening Session**

8:20 am – 8:45 am **State of the ACS-Accredited Education Institutes: 2025 Update**

8:45 am – 9:30 am **Keynote Address**

Henri R. Ford, MD, MHA, FACS, Dean and Chief Academic Officer of the University of Miami Miller School of Medicine, Immediate Past President, American College of Surgeons

9:30 am – 10:00 am **Break and Exhibits**

10:00 am – 12:00 pm **Concurrent Sessions: Papers Session I and MORE Track**

Papers Session I – Completed Research

AI-Driven Prediction of Errors in the Advanced Training in Laparoscopic Suturing (ATLAS) Needle Handling Task: One Step Closer to Automated Surgical Skill Assessment

Multiyear Analysis of the Impact of Fresh Tissue Training (FTT) for General Surgery Residents' Trauma Education

A Call for Institution Wide Simulation: A GME, Trauma, and Simulation Center Collaboration Utilizing Video Review and In-Situ Simulation

Plant-based Biodegradable 3D-printed Laparoscopic Training Kit

Simulation-based Training Reduces Unnecessary Ultrasound Referrals for Developmental Hip Dysplasia in Newborns

Longitudinal Evaluation of a Surgical Simulation-Based Curriculum for Medical Student Education in Rwanda

Management, Operations, Research and Education (MORE) Track (2-Part Session)

Using Data to your Advantage: Demonstrating your ROI

Data is essential for showcasing the effectiveness and value of initiatives, projects, or programs within an organization. By effectively leveraging data to demonstrate ROI, you can build confidence, credibility, and support for your initiatives, securing buy-in and investment for future endeavors while driving sustainable growth and success for your organization.

Building, Maintaining, and Celebrating Your Team: A Pathway to Success

This session underscores the significance of nurturing relationships, fostering a positive work environment, and recognizing the contributions of individual team members. By prioritizing these elements, leaders can cultivate high-performing teams capable of driving innovation, achieving objectives, and sustaining success in the long run.

12:00 pm – 1:00 pm	Lunch and Exhibits
1:00 pm – 3:00 pm	<p>Concurrent Sessions: Papers Session II and MORE Track</p> <p>Papers Session II – In Progress Research</p> <p>Intraoperative Code Status: Moving from Misinformation to Respect for Patient Autonomy</p> <p>Spinal Support Harness for Surgeons: Enhancing Ergonomics in the OR</p> <p>A Thematic Analysis of Communication Patterns of Interprofessional Teams during Simulated Pediatric Traumas</p> <p>Exploring Risks of Failure in Advanced Trauma Life Support Courses</p> <p>High Superficial Resemblance vs. High Functional Task Alignment Simulation for Central Venous Catheterization Training: A Randomized Crossover Study</p> <p>Two is Better Than One - Modeling Multi-Compartmental Hemorrhage for Penetrating Polytrauma Simulation in an Ultra High Fidelity Knowledge Donor Model</p> <p>Management, Operations, Research and Education (MORE) Track Session</p> <p>Diversification of Resident Skills Practice</p> <p>Due to clinical and research commitments and work hours restrictions, residents have limited time to practice an increasingly diverse array of technical skills. This session offers novel approaches to engage residents at all levels, overcoming commonly cited barriers to technical skills practice.</p>
3:00 pm – 4:00 pm	<p>Meet the Authors Poster Session</p> <p>Scientific posters will be divided into themes, and the authors will stand near their posters and be available to discuss their research and answer questions. All work being presented is from original research, not previously published or presented. Three posters of distinction will be featured. Need a break? Enjoy an afternoon beverage in our exhibit hall.</p>
4:00 pm – 5:00 pm	<p>Increasing the Impact of your ACS Accredited Education Institute (AEI)</p> <p>This panel will explore ways to maximize the impact of your center, including strategies to engage trainees from across surgical specialties, recruit simulation experts as faculty, and increase research productivity through collaboration.</p>
5:00 pm – 6:00 pm	Networking Reception and Exhibits

Friday, March 21

7:00 am – 8:00 am	Networking Breakfast & Exhibits
8:00 am – 10:00 am	<p>Concurrent Workshops</p> <p>ACS-AEI Fellows: Future Leaders in Simulation</p> <p>This session features presentations from Fellows at ACS-AEI-accredited surgical simulation fellowship programs. This talented group of young researchers will describe their in-progress work and ongoing projects. This workshop is applicable to all attendees interested in hearing about their important research.</p> <p>Creating an Interdisciplinary Simulation at Home and Beyond</p> <p>Multidisciplinary simulations are a great way to prepare trainees for the fast paced, complex decision-making and teamwork required to manage patients in clinical scenarios. This workshop will outline the design and key insights from an interdisciplinary simulation activity created for a group of resident learners from general surgery and obstetrics and gynecology. Strategies for expanding interdisciplinary simulation virtually and globally will also be explored.</p> <p>Enhancing Feedback: How to Adopt Simulation Pre-briefing, Debriefing, and Feedback Models</p> <p>Adopting structured prebriefing, debriefing, and feedback models is crucial to ensure learners understand simulation goals, actively participate, and receive rich, targeted feedback. This workshop will share strategies on how to provide feedback that promotes meaningful learning and improved clinical performance among learners.</p>

Micro Credentialing for Simulation Facilitation

This workshop will give participants the tools they need to design their own facilitator development, micro-credentialing courses reflecting best practices in simulation education facilitation.

Surgical Simulation 2.0: Harnessing AI for the Future of Surgical Education

Explore how AI is revolutionizing surgical training. This hands-on session will feature tools that enhance simulations, personalize assessments, and create adaptive learning paths. Participants will engage in interactive demonstrations and discussions on ethical considerations and practical challenges, gaining strategies to effectively integrate AI into surgical education.

Break and Exhibits (Exhibits break down after lunch)

10:00 am – 10:30 am

Role-based Special Interest Groups (SIGs)

Role-based Special Interest Groups (SIGs) will bring together attendees sharing common roles and challenges to meet informally for 60 minutes of facilitated discussion and networking. SIGs encourage sharing of insights, resources, and ideas, and foster collaboration. Attendees may select whichever SIG they would like to attend.

10:30 am – 11:30 am

Simulation Center Administrators and Other Support Staff

Those who are responsible for the daily operations of the simulation center.

Simulation Center Directors

Those who are responsible for the entire enterprise of the simulation center.

Simulation Center Surgical Directors

Those who are practicing surgeons and are responsible for the simulation center's surgical education and training programs.

Simulation Center Educators

Those who specialize in developing and implementing simulation-based education.

Simulation Technologists and Engineers

Those who are responsible for creating simulators and for providing support and expertise for simulation operations and technology.

AEI Fellows and Fellowship Directors

Those who are currently enrolled in an ACS-AEI accredited fellowship program. This group is also appropriate for directors of ACS-AEI accredited fellowship programs as well as former fellows.

Medical Students

Those who are enrolled in a program leading to a medical doctor or doctor of osteopathy degree and have an interest in medical simulation.

11:30 am – 12:30 pm

Topic-based Special Interest Groups (SIGS)

Topic-based Special Interest Groups (SIGS) will bring together attendees sharing common interests to meet informally for 60 minutes of facilitated dialog and deliberation on specific topics. SIGs encourage sharing of insights, resources, and ideas, and foster collaboration. Attendees may select whichever SIG they would like to attend.

Design Thinking to Simulation Excellence**In-Situ and Mobile Outreach Simulation****Overcoming Challenges and Seizing Opportunities in Faculty Development****Robotics Training****Standardized Patient Programs****The Use of Cadaveric, Animal, and Synthetic Tissue in Skill Development**

- 12:30 pm – 1:30 pm **Lunch and Exhibits (Exhibits Break Down After Lunch)**
- 1:30 pm – 4:15 pm **American College of Surgeons (ACS) and American Society of Anesthesiologists (ASA)
Collaborative Session**
Building on the success of last year’s session, we are pleased to bring back the collaborative session with the American Society of Anesthesiologists (ASA). The 2025 session will feature presentations from winners of the ACS/ASA Simulation Quality and Safety Challenge, followed by discussions on how to use simulation to address quality improvement at your institution.
- 4:15 pm – 4:30 pm **Closing Remarks/Summit Concludes**