

# 2025 ACS Surgical Simulation Summit

MARCH 20-21 / CHICAGO, IL

#ACSSim

## Agenda

Agenda and speakers are subject to change. The views expressed by individual speakers are their own and do not necessarily reflect those of the American College of Surgeons.

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  
Zurich ABC

**Registration, Breakfast & Exhibits**

8:00 am – 8:20 am  
Zurich DEFG

**Opening Session**

**Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, MAMSE**, Senior Vice President, Education, American College of Surgeons, and Chair, ACS Program for Accreditation of Education Institutes

**Patricia L. Turner, MD, MBA, FACS**, Executive Director and Chief Executive Officer, American College of Surgeons

**Tamara L. Owens, PhD, MEd, CHSE**, Director, Simulation & Clinical Skills Center, Howard University Health, and 2025 Chair, Program Committee of the AEI Consortium

**Gyusung Lee, PhD**, Assistant Director, Simulation-Based Surgical Education and Training, ACS Division of Education, and Recorder, ACS Surgical Simulation Summit

8:20 am – 8:45 am  
Zurich DEFG

**State of the ACS-Accredited Education Institutes: 2025 Update**

**Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, MAMSE**

8:45 am – 9:30 am  
Zurich DEFG

**Keynote Address**

**Educating the Next Generation of Physicians and Surgeons: A New Paradigm**

**Henri R. Ford, MD, MHA, FACS, MAMSE**, 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  
Zurich ABC

**Break and Exhibits**

10:00 am – 12:00 pm  
Zurich DEFG

**Concurrent Sessions: Papers Session I and MORE Track**

**Papers Session I – Completed Research**

Moderator: **Hahn Soe-Lin MS, MD, FACS**, Clinical Simulation Director, CommonSpirit Health St. Joseph's Hospital & Med Ctr / Creighton School of Medicine-Phoenix

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

Speaker: **Sofia Garces Palacios, MD**, UT Southwestern Medical Center

Discussant: **S. Swaroop Vedula, MBBS, PhD**, Johns Hopkins Medicine

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

Speaker: **Kamil Abbas BS**, West Virginia University School of Medicine

Discussant: **Daniel Stephens, MD, FACS**, Trauma Medical Director, Mayo Clinic

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

Speaker: **Evelyn Coile, MD**, UT Southwestern Medical Center

Discussant: **Robert M. Rush, Jr MD, FACS, COL(ret) USA**, Surgery Chief Medical Officer, Trauma Medical Director & Surgical Quality Office, PeaceHealth St. Joseph's Medical Center and UW Medicine

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## Plant-based Biodegradable 3D-printed Laparoscopic Training Kit

Speaker: **Paraskevas Pakataridis, MD**, Medical Simulation Center "Lozenetz"- Sofia University  
Discussant: **Valentina Valle, MD, PhD (c)**, Director of the Surgical, Innovation and Training Laboratory, University of Illinois at Chicago

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

Speaker: **Michelle Wang, MS**, University of Michigan  
Discussant: **John T. Paige, MD, FACS, MAMSE**, Professor of Clinical Surgery, LSU Health New Orleans School of Medicine

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

Speaker: **Kiana Winslow, BA**, Program in Global Surgery and Social Change, Harvard Medical School  
Discussant: **Shilpa S. Murthy, MD, MPH**, Assistant Professor of Surgery, Yale School of Medicine

Montreux 1-3

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

Moderator: **Cristina Alvarado MBA, BSN, RN, CHSE**, The University of Toledo, Interprofessional Immersive Simulation Center

### 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.

Speaker: **Ben Stobbe RN, MBA**, Assistant Vice Chancellor, Statewide Advanced Simulation University of Nebraska Medical Center, iEXCEL

### 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.

Speaker: **Jenni Bouckhuys**, Associate Executive Director, Simulation Operations, University of Nebraska Medical Center

12:00 pm – 1:00 pm  
Zurich ABC

## Lunch and Exhibits

1:00 pm – 3:00 pm  
Zurich DEFG

## Concurrent Sessions: Papers Session II and MORE Track

### Papers Session II – In Progress Research

Moderator: **Rondi M. Kauffmann, MD, MPH, FACS, FCS(ECSA)**, Surgical Simulation Director, Associate Program Director- General Surgery Residency, Vice Chair of Global Surgery, Vanderbilt University Medical Center

### Intraoperative Code Status: Moving from Misinformation to Respect for Patient Autonomy

Speaker: **Jacob Applegarth, MD**, Corewell Health East – William Beaumont University Hospital  
Discussant: **William DeVoe, MD, FACS**, Simulation Fellowship Director, OhioHealth

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## Spinal Support Harness for Surgeons: Enhancing Ergonomics in the OR

Speaker: **Filippos Chelmis, MS**, Medical Simulation Center "Lozenetz"- Sofia University

Discussant: **Megan Rapp, MD, FACS**, Clerkship Director/APD for Simulation, Geisinger Health

## A Thematic Analysis of Communication Patterns of Interprofessional Teams during Simulated Pediatric Traumas

Speaker: **Megan Stuhlman, MEd, PhD**, Atrium Health, Carolinas Simulation Center

Discussant: **Jesika S. Gavilanes, EdD, MATESOL, FSSH**, Simulation Operations Director, Oregon Health & Science University (OHSU) Simulation

## Exploring Risks of Failure in Advanced Trauma Life Support Courses

Speaker: **Zachary Newman, BS**, The University of Chicago Pritzker School of Medicine

Discussant: **Daniel Stephens, MD, FACS**, Trauma Medical Director, Mayo Clinic

## High Superficial Resemblance vs. High Functional Task Alignment Simulation for Central Venous Catheterization Training: A Randomized Crossover Study

Speaker: **Ibrahim A. Gomaa, MD**, Mayo Clinic

Discussant: **Paul D. DiMusto, MD, FACS**, Surgical Director of Simulation, University of Wisconsin-Madison

## Two is Better Than One - Modeling Multi-Compartmental Hemorrhage for Penetrating Polytrauma Simulation in an Ultra High Fidelity Knowledge Donor Model

Speaker: **Kayla E. Gray, MS, CCRP**, St. Joseph's Hospital and Medical Center & Arizona State University

Discussant: **Kevin Harrell MD, FACS**, Simulation Surgical Director, Tulane University

Montreux 1-3

## Management, Operations, Research and Education (MORE) Track Session Novel Approaches to Residents' Technical Skills Acquisition

Due to clinical and research commitments and work hours restrictions, residents have limited time to practice surgical skills. This session offers novel approaches to engage residents at all levels, overcoming commonly cited barriers to technical skills practice.

Speakers:

**Shannon Barter, MD**, Surgery Education and Simulation Fellow, General Surgery Resident, Duke University

**Louise Jackson, MBBS, FACS**, Simulation Director, Duke University

**Layla Triplett, MEd**, Seal Operations Manager, Duke University School of Medicine

3:00 pm – 4:00 pm

Zurich Foyer

## Meet the Authors Poster Session

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.

4:00 pm – 5:00 pm

Zurich DEFG

## Increasing the Impact of your ACS Accredited Education Institute (AEI)

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.

Moderator: **Ajit K. Sachdeva, MD, FACS, FRCS, FSACME, MAMSE**

**Daniel Scott, MD, FACS**, Simulation Director, UT Southwestern Medical Center

**Ranjan Sudan, MD, FACS, MAMSE**, Professor of Surgery and Psychiatry, Duke University

**Robert M. Sweet, MD, FACS, MAMSE**, Professor of Urology, Surgery, and Bioengineering(adj), University of Washington

5:00 pm – 6:00 pm

Zurich ABC

## Networking Reception and Exhibits

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## Friday, March 21

7:00 am – 8:00 am **Networking Breakfast & Exhibits**  
Zurich ABC

8:00 am – 10:00 am **Concurrent Workshops**

Zurich DEFG

### **ACS-AEI Fellows: Future Leaders in Simulation**

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 session is applicable to all attendees interested in hearing about their important research.

Moderator: **Robert M. Sweet, MD, FACS, MAMSE**

Speakers:

**Marcelle Altshuler, MD**, Massachusetts General Hospital

**Brandon Cowan, MD**, UCSF East Bay

**Alex Dunaway, MD, LT, USN**, Naval Medical Center Portsmouth

**Gabrielle M. Falco, MD**, National Capital Region Simulation Consortium

**Konstantinos Georgiou MD, M.Sc., Ph.D.**, Department of Surgery, University of Washington

**Camilla Gomes, MD MS**, University of California, San Francisco

**Dylan Griffiths, MD, NMCS**, Naval Medical Center San Diego

**Megan Kang, DO, MSL**, OhioHealth Riverside Methodist Hospital

**Brian (Hyung) Kim, MD**, Virginia Mason Medical Center/University of Washington

**Michael Kochis, MD, EdM**, Massachusetts General Hospital

**Laura Kraemer, MD**, Naval Medical Center San Diego

**Mika Matsuuchi Lindsley, MD, MPH**, Lahey Hospital & Medical Center

**Jacob Morton, MD**, Corewell Health East William Beaumont University Hospital

**Shaghayegh Sabbaghan, MD**, Massachusetts General Hospital, Harvard Medical School

**Stephanie Seale, MD**, Stanford University

**Mame Samba Sylla, MD**, University of Tennessee Center for Advanced Medical Simulation

**Rebecca Tang, MD**, Massachusetts General Hospital

**Nicole Wise, MD**, Lahey Simulation Center

**Jerry Xiao, MD**, Houston Methodist Hospital

Montreux 1-2

### **Creating an Interdisciplinary Simulation at Home and Beyond**

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.

Speakers:

**Chelsea (Xiaoxi) Feng, MD**, Associate Program Director for Simulation, General Surgery, Cleveland Clinic

**Emma Gargus, MD, PhD, OB/GYN PGY-3**, Cleveland Clinic Foundation

**Erin Higgins, MD, FACOG**, Director of Simulation, Obstetrics & Gynecology Institute Cleveland Clinic

**Kathleen Mau, DNP, APRN**, Sr. Director of the Simulation and Advanced Skills Center, Cleveland Clinic

**Pooja Varman, MD, MS**, Surgical Education Research Fellow, Cleveland Clinic

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Montreux 3

## Enhancing Feedback: How to Adopt Simulation Pre-briefing, Debriefing, and Feedback Models

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.

Speakers:

**John Beaver, MPA, MEd, CCRP**, Assistant Director of Simulation Operations, UT Southwestern Medical Center

**Krystle Campbell, DHA, MSMS**, Director of Operations, UT Southwestern Simulation Center, Assistant Professor, Department of Emergency Medicine, UT Southwestern Medical Center

**Jeanne Carey, MEd, RN, CHSE-A**, Simulation Education Manager, UT Southwestern Medical Center

**Daniel Scott, MD, FACS**, Simulation Director, UT Southwestern Medical Center

**Ranjan Sudan, MD, FACS, MAMSE**, Duke University

St. Gallen 3

## Micro Credentialing for Simulation Facilitation

This workshop will teach participants how to create micro-credentialing courses reflecting best practices in simulation education facilitation.

Speaker: **Shannon DiMarco, MSHS, CHSOS, PhD (c)**, UW Health Emergency Education & Clinical Simulation

St. Gallen 1-2

## 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.

Speakers:

**Joanna Ebenezer Jayakumar, MBBS**, Surgical Education Fellow, Mohammed Bin Rashid University of Medicine and Health Sciences

**Homero Rivas, MD, MBA, FACS**, Professor of Surgery, and Associate Dean of Innovation and the Future at the Mohammed Bin Rashid University of Medicine and Health Sciences

**Warda Siddiqi, MBBS**, Surgical Education Fellow, Mohammad Bin Rashid University of Health Sciences, Dubai Health

10:00 am – 10:30 am  
Zurich ABC

## Break and Exhibits

10:30 am – 11:30 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.

Montreux 3

## Simulation Center Administrators and Other Support Staff

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

Facilitator: **Stacy D. Cooper DNP, RN, NEA-BC, CPXP**, Regional Director of Quality Experience, Baylor Scott & White Health

St. Gallen 1

## Simulation Center Directors

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

Facilitators: **Gladys Fernandez, MD**, Director of Simulation Education, Baystate Simulation Center and **Kathryn M. Ziegler, MD, FACS**, Medical Director, Applebaum Simulation Learning Institute, Corewell Health William Beaumont University Hospital

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- Montreux 1 **Simulation Center Surgical Directors**  
Those who are practicing surgeons and are responsible for the simulation center's surgical education and training programs.  
Facilitators: **Alfred J. Croteau, MD, FACS**, Surgical Director, Hartford Hospital and **Areti Tillou, MD, FACS**, Surgical Director, UCLA Center for Advanced Surgical and Interventional Technology (CASIT)
- St. Gallen 2 **Simulation Center Educators**  
Those who specialize in developing and implementing simulation-based education.  
Facilitators: **Priscila Rodrigues Armijo, MD**, Assistant Professor, General Internal Medicine, University of Nebraska and **Deborah M. Rooney, PhD**, Professor of Learning Health Sciences, Director of Education and Research, University of Michigan Medical School
- Monte Rosa **Simulation Technologists and Engineers**  
Those who are responsible for creating simulators and for providing support and expertise for simulation operations and technology.  
Facilitator: **Carla M. Pugh, MD, PHD, FACS**, Thomas Krummel Professor of Surgery, Stanford Medicine
- Montreux 2 **ACS-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.  
Facilitators: **Cliff Snyder, MPAS, PA-C**, Simulation Institute Director and **Joshua A. Roshal, MD**, Surgical Simulation and Education Research Fellow, Sealy and Smith Laboratory for Surgical Training, Assessment and Research (LSTAR) at University of Texas Medical Branch (UTMB) Galveston
- St. Gallen 3 **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.  
Facilitator: **Susan Carter, MD, FACS**, Professor and Director, Rocky Vista University
- 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.
- Montreux 1 **Design Thinking to Simulation Excellence**  
Facilitators: **Bob Armstrong, MS, FSSH**, Executive Director, Sentara Center for Simulation and Immersive Learning, Old Dominion University and **Jennifer Calzada, MA, MPH, CHSE, FSSH**, Director of Simulation Education, Tulane School of Medicine
- Montreux 3 **In-Situ and Mobile Outreach Simulation**  
Facilitator: **Priti Jani, MD, MPH**, Associate Professor of Pediatrics and Faculty Director of UChicago Simulation Center
- Montreux 2 **Overcoming Challenges and Seizing Opportunities in Faculty Development**  
Facilitators: **John T. Paige, MD, FACS, MAMSE**, Professor of Clinical Surgery, LSU Health New Orleans School of Medicine Learning Center and **Victoria Roach, PhD**, Director, Academic Programs, Division of Healthcare Simulation Sciences, UW Medicine
- St. Gallen 1 **Robotics Training**  
Facilitators: **Danielle Julian, MS**, Director of Education at AdventHealth Nicholson Center and **Valentina Valle, MD, PhD (c)**, Director of the Surgical, Innovation and Training Laboratory, University of Illinois at Chicago

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- St. Gallen 3 **Standardized Patient Programs**  
Facilitator: **Tamara L. Owens, PhD, MEd, CHSE**, Director, Simulation & Clinical Skills Center, Howard University Health Sciences
- St. Gallen 2 **The Use of Cadaveric, Animal, and Synthetic Tissue in Skill Development**  
Facilitators: **Justin Dufresne**, Director of the Simulation Learning and Training Center, Hospital for Special Surgery, **Julie Hartman, DC, MS, CHSE**, Operations Director, Center for Procedural Skills and Simulation, University of Iowa Health Care and **Jorge Salazar, BA, EMT-B**, Bioskills Laboratory Coordinator, Center for Procedural Skills and Simulation, University of Iowa Health Care
- 12:30 pm – 1:30 pm  
Zurich ABC **Lunch and Exhibits (Exhibits Break Down After Lunch)**
- 1:30 pm – 4:30 pm  
Zurich DEFG **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.
- 1:30 – 1:50 pm **Introduction and Overview**  
**Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, MAMSE**  
**Randy Steadman, MD, MS**, Carole Walter Looke Centennial Chair, Department of Anesthesiology & Critical Care, Houston Methodist Hospital
- 1:50 – 2:20 pm **ACS/ASA Simulation Quality and Safety Challenge Podium Presentations**  
Moderator: **Mary Catherine Santos, MD, MEd, FACS**, Director of Surgical Simulation, Penn State Health Medical Center
- Insurance-driven Simulation-Based Perioperative Team Simulation Training to Improve Patient Care and Interprofessional Team Connection**  
**Jeffrey B. Cooper, PhD**, Professor Emeritus, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital and Harvard Medical School
- Interprofessional Simulated Surgical Debriefing**  
**Shilo Covey, RN, CNOR**, NPD Specialist, Baylor Scott and White
- 2:20 – 2:35 pm **Break**
- 2:35 – 3:05 pm **ACS/ASA Simulation Quality and Safety Challenge Podium Presentations Continued**  
Moderator: **Luis E. Llerena, MD, FACS**, Surgical Director, University of South Florida, Morsani College of Medicine
- An Interprofessional Tabletop Simulation to Reduce Central Line-Associated Bloodstream Infections (CLABSIs)**  
**Karen Dickinson, MBBS, MD, BSc, MEd**, Assistant Professor of Surgery and Director of IPE Simulation and Clinical Skills Training, University of Arkansas
- Decreasing Preventable Harm Through in situ Simulation: Identifying, Mitigating, and Reporting Latent Safety Threats**  
**Kathleen Mau, DNP, APRN**, Sr. Director of the Simulation and Advanced Skills Center, Cleveland Clinic

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3:05 – 3:35 pm

## Reactor Panel

Moderator: **Erik J. Nelson, MD, MBA, FASA**, Director of Simulation Education, Scope Anesthesia of North Carolina

Speakers:

**Alexander Hannenberg, MD**, Senior Research Scientist, Ariadne Labs (Harvard T.H. Chan School of Public Health - Brigham & Women's Hospital)

**Ryan Merkow, MD, MS, FACS** Associate Professor of Surgery and Director of Surgical Cancer Quality, University of Chicago Medicine

**Kelley Sava, MS, APRN**, Associate Vice President, Enterprise Simulation, Advocate Health

3:35 – 4:00 pm

## Panel Discussion and Audience Q&A

Moderator: **Gladys Fernandez, MD**

4:00 – 4:25 pm

## Summary and Call to Action

**Randy Steadman, MD, MS**

**Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, MAMSE**

4:25 – 4:30 pm

## Closing Remarks

**Tamara L. Owens, PhD, MEd, CHSE**

**Luis E. Llerena, MD, FACS**

**Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, MAMSE**