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AGENDA



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2020

ACS Surgical Simulation Summit Research Presentations

Featuring select presentations weekly this fall!

facs.org/aeisummit



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AMERICAN COLLEGE OF SURGEONS
DIVISION OF EDUCATION
Blended Surgical Education and Training for Life[®]

2020 ACS Surgical Simulation Summit—Research Presentations

The Annual ACS Surgical Simulation Summit **brings together members of the surgical simulation community** including surgeons, academic engineers, medical students, residents, simulation center directors, educators, administrators, technicians, and researchers to learn about the latest advances and cutting-edge initiatives in simulation-based surgical education and training, to present innovative research, and to share best practices.

WEDNESDAY, OCTOBER 21

6:00–8:00 pm CST

Opening Remarks

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

Director, American College of Surgeons, Division of Education, and Chair, ACS Program for Accreditation of Education Institutes

Gordon A. Wisbach, MD, CAPT, MC, USN

Surgical Director, Bioskills & Simulation Training Center Naval Medical Center San Diego, and Chair, Program Committee of the AEI Consortium

James R. Korndorffer, Jr., MD, MHPE, FACS

Vice-Chair of Education, Department of Surgery, Stanford University School of Medicine and Recorder, Annual ACS Surgical Simulation Summit

Kathleen A. Johnson, EdM

Assistant Director, Program for Accreditation of Education Institutes, American College of Surgeons, Division of Education

Innovations in Simulation-Based Education

Learn about **four innovative projects** under development in simulation centers around the country. This session offers innovators a forum to present preliminary research and developments on simulators, curricula, and technology even though there may not yet be outcomes data to support its widespread adoption.

Moderator: **Deborah M. Rooney, PhD**

Director, Education and Research in Simulation, University of Michigan Medical School

Edward Jasper, MD

Thomas Jefferson University

Development of a Modified HERT Trained Interprofessional Student Decontamination Team for Hospital Mass Casualty Response

Gustavo Mastroianni, MD

Hospital Italiano de Buenos Aires

Hepaticojejunostomy: A novel training model

Rafael de Azevedo, MD

Mayo Clinic

Validation of a Vascular Anastomosis Station:

Using an Inexpensive Tool for Teaching and Assessing Surgical Residents

Jenny Bui, BS

University of North Carolina at Chapel Hill School of Medicine

Development and Educational Testing of a Beating Tissue-Based Congenital Cardiac

Participants can earn up to 5.25 CME and Patient Safety Credits by attending all three days of the meeting.

Please note, on-demand posters are **not eligible** for CME credit.

WEDNESDAY, OCTOBER 28

6:00–8:00 pm CST

Scientific Papers

Nine cutting-edge scientific podium presentations will be featured during this oral abstract session. All work being presented is from original research, not previously published or presented.

Moderator: **Robert B. Lim, MD, FACS, FASMBS**
Vice-Chair of Education, Surgery, Oklahoma University School of Medicine Tulsa

Zachary Budesza, MA

University of Tennessee, Knoxville Graduate School of Medicine
Evaluating First Year Residents' Communication Skills:
A Health Literacy Curriculum Needs Assessment

Dimitrios Athanasiadis, MD

Indiana University School of Medicine
Multidisciplinary Trauma Team Training with an Emphasis
on Crisis Resource Management Improves Residents'
Non-Technical Skills

James N. Lau, MD, MHPE, FACS

Stanford University School of Medicine
In-situ Interprofessional Operating Room Simulations Improve
Learner Confidence in Crisis-Resource Management Principles

Nicholas E. Anton, MS

Indiana University Purdue University
Stress and Resident Interdisciplinary Team Performance:
Results of a Pilot Trauma Simulation Program

Bryce Lowry, MD

University of Manitoba
Mobile Virtual Collaborating—Realizing the Future of
Surgical Education

Danielle Julian, MS

AdventHealth Nicholson Center
Optimizing Simulation-Based Skills Acquisition for Novice
Robotic Surgeons

James Cooke, MD

University of Michigan
Overarching Themes from ACS-AEI Accreditation Survey
Best Practices 2011–2019

Christopher Dyke, MD

Walter Reed National Military Medical Center
Early Implementation of FES Training Using a Simulation-
Based Mastery Learning Curriculum

Miles Benjamin, MBChB

St George's Hospital, London
Using Haptic Feedback in Virtual Reality Bone Drilling
Simulation to Reduce Plunge Distance

WEDNESDAY, NOVEMBER 4

6:00–8:00 pm CST

AEI Fellows: Future Leaders in Simulation-Based Surgical Education

This session features presentations from Fellows at ACS-accredited surgical simulation fellowship programs. **Our talented group of budding researchers will describe their in-progress work and ongoing projects.**

Moderator: **Roy Phitayakorn, MD, MHPE (MEd) FACS**
Director of Medical Student Education and Surgery Education Research, The Massachusetts General Hospital; Associate Professor of Surgery, Harvard Medical School

FELLOWS

Douglas Cassidy, MD

Massachusetts General Hospital

Sujata Datta, MD

University of Tennessee Graduate School of Medicine

Karen J. Dickinson, MBBS, BSc, MD, FRCS

Houston Methodist Institute of Technology

Alexis Graham-Stephenson, MD

Lahey Hospital and Medical Center

Elizabeth Huffman, MD

Indiana University Department of Surgery

Alison Johnson, MD

University of Vermont Medical Center

Sarah Kelso, MD

University of Vermont Medical Center

Eduardo Martín Palavecino, MD, FACS

University of Washington

Ingrid Schmiederer, MD

Stanford University

Naomi M. Sell, MD, MHS

Massachusetts General Hospital

Eugene Tuyishime, MD, MSc

OhioHealth Learning

Jonathan Wingate, MD

University of Washington

Closing Remarks

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

ADDITIONAL RESOURCES On-Demand Posters

Posters can be viewed on-demand at
facs.org/aeisummit

GROUP A—CT, Anesthesia, Transplant, GYN and Other Innovations

Weifeng Zeng, MD

University of Wisconsin, Madison

The Infused Pig Chest Wall “Sandwich”—A Novel Training Model for Internal Mammary Artery Preparation in Breast Reconstruction

Konstantinos Georgiou, MD

Intervention and Technology (CLINTEC), Karolinska Institutet

Novel needle holder provokes less stress during laparoscopic simulation procedures

Blagoi Marinov, MD, PhD

Medical Simulation Training Center, Medical University of Plovdiv

Salivary Chromogranin A: A Valid Stress Biomarker in Surgery Trainees

Meredith Poole, BSc, MSc

Queen’s University

Proficiency-Based Training in Soft Tissue Resection using Real-Time Computer Navigation Feedback from Surgery Tutor

Erica Robinson, MD

Wake Forest School of Medicine

Rapid Implementation of FLS Curriculum for OBGYN Residents and the Effect on FLS Scores

Steven Kurapaty, BS

George Washington University School of Medicine and Health Sciences

Creation and Initial Assessment of a Low Cost, Easily Manufactured, Synthetic Fascia for Training

GROUP B—General Surgery and Laparoscopy

Wei Quan How, MD

Easton Hospital

Development of totally robotic biliopancreatic diversion with duodenal switch simulation model

Robert Naples, DO

Cleveland Clinic

Do Surgical Boot Camps or Previous Training for General Surgery Interns Predict Improved Fundamentals of Laparoscopic Surgery (FLS) Skills?

Parvathi Balachandran, MBBS, PhD

Mayo Clinic Multidisciplinary Simulation Centers

From FLS Peg Transfer to Graham Patch Repair: Can Low Cost Simulation Models Assess Advanced Laparoscopic Skills? A 7-year experience

Nizamuddin Shaikh, MBBS

Mayo Clinic Multidisciplinary Simulation Centers

Development of an Open Knot Tying Curriculum for Surgical Interns: We Assumed They Already Knew!

Jessica Limberg, MD

NYP-Weill Cornell Medical Center

Can General Surgery Interns Accurately Measure Their Own Technical Skills? Analysis of Cognitive Bias in Surgical Residents’ Self-Assessments

GROUP C—Team-based and Non-technical Simulation

John T. Paige, MD, FACS

LSU Health New Orleans School of Medicine

Tomato versus Tomato: Comprehensive literature review to determine the key components of assessment tools measuring nontechnical skills in the operating room

Lauren Welsch, PhD

Naval Medical Center Portsmouth

Simulation Team Training to Improve Standardized Patient Satisfaction in Emergent Situations

Carmen Spalding, PhD, RN

Naval Medical Center San Diego

Development of a Novel Curriculum to Teach Military Nurses REBOA

Cortney Webb, BAS, CST, CRCST, CIS

Parkview Health System

Development of a Perioperative Orientation Program for the Advanced Practice Provider

Katherine Jackson, MD

University of Rochester Medical Center

Operating Room Safety and Simulation: Assessing Attitudes and Efficacy of a Multidisciplinary Team Training Program

Robert Shi, MS, BA

Stanford University School of Medicine

Supporting Performance in TeamSTEPS-Based Teamwork Skills in the Operating Room through Interprofessional In-Situ Simulation