

**AEI Consortium Abstracts Since 2008
Multi-Institutional Abstracts**

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								Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Patient Safety	Surgical Outcomes	Investigation	Education	In-Development	Other	
AEI2009	A Six-part Program for Teamwork Improvement in Surgery	Work in Progress	no	Jeffrey	Cooper	PhD	Center for Medical Simulation									X		
AEI2009	Developing A Performance Assessment Device for the Laparoscopic Transperitoneal Nephrectomy Procedure	NA	no	Elsbeth	McDougall	MD, FRCSC, MHPE	UC Irvine									X		
AEI2009	Fundamentals of Robotic Surgery (FRS): Inanimate tasks for robotic surgical skills assessment and training	NA	no	Alvin	Goh		MITIE											X
AEI2009	GEARS: An assessment tool to measure robotic surgical skills	NA	no	Alvin	Goh	MD	MITIE											X
AEI2009	Outcome Measures for Surgical Simulators: Is the focus on technical skills the best approach?	Original	yes	Carla	Pugh	MD, PhD, FACS	Northwestern University									X		
AEI2009	The Theoretical Basis for Fabricating High Fidelity Simulation Tools for Honing Complex Surgical Skills	Original	no	Carla	Pugh	MD, PhD, FACS	Northwestern University									X		
AEI2010	Endovascular Procedure Simulation as an Assessment Tool for Vascular Surgeons	Non-AEI	no	David	Dawson	MD, FACS	UC Davis				X							
AEI2010	Investigating of Surgeon's Vigilance on Patient's Condition Using Eye-Tracking Techniques	Original	no	Bin	Zheng	PhD	CESEI				X		X	X				
AEI2010	Proving the Value of Secondary Task Metrics for Performance Assessment on Surgical Simulators	Original	no	Dimitrios	Stefanidis	MD, PhD, FACS	Carolinas Healthcare System				X							
AEI2010	Quantifying Surgeon's Contribution to Team Effectiveness on a Mixed Team with a Junior Surgeon	Original	yes	Bin	Zheng	PhD	CESEI	X		X					X			
AEI2010	Using Deliberate Practice to Train Higher-Order Skills in Laparoscopic Surgery	Work in Progress	no	Jeffrey	Beaubien	PhD	Beaumont Health System	X	X	X			X	X				
AEI2011	Can Skills Coaches be Used to Assess Resident Performance in the Skills Laboratory?	Original	yes	Deborah	Rooney	PhDc	Northwestern University	X	X	X								
AEI2011	Data-Driven Optimization of Surgeon Skills for Enhanced Training, Simulation, and Assessment	Work in Progress	no	Noaman	Ali	MD	Beaumont Health System		X									
AEI2011	Design and Validation of a Model for Training and Assessment of Procedural Skills in Open Surgery	Original	no	Neil	Rittenhouse	MHSc	University of Toronto	X	X	X					X			
AEI2011	Design and Validation of a Surgical Skills Assessment Tool for Laparoscopic Roux-en-Y Gastric Bypass	Work in Progress	no	Boris	Zevin	MD	University of Toronto	X		X				X				
AEI2011	Developing a Proficiency-Based Virtual Reality Technical Skills Training curriculum for Laparoscopic Colorectal Surgery	Original	no	Vanessa	Palter	MD	St. Michael's Hospital	X										
AEI2011	Fundamentals of Laparoscopic Surgery (FLS) Manual Skills Assessment: Surgeon Versus Non-surgeon Raters	Original	no	Deborah	Rooney	PhDc	Northwestern University						X					

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AEI2013	The Future of Surgical Training: National Needs Assessment of Stakeholders	Original	yes	Sara	Kim	PhD	ACS AEI Curriculum Committee Study Paper	X				X	X						
AEI2013	The Rule of '4s': A Theory-Driven Approach to Implementing Simulation into Surgical Training	Original	no	Sonal	Arora	MD, PhD	Imperial College London	X	X										
AEI2013	Using Video Motion Analysis to Quantify Technical Performance	Original	yes	Carly	Glarner	MD	University of Wisconsin	X		X				X					
AEI2014	A Randomized Controlled Study to Evaluate the Role of Video-Based Coaching in Training Laparoscopic Skills	Original	no	Pritam	Singh	MB, BS, MA, MRCS	Imperial College London	X	X	X	X	X							
AEI2014	Assessing Technical Competence in Surgical Trainees: A Systematic Review	Original	no	Peter	Szasz	MD	University of Toronto		X	X	X			X					
AEI2014	Current Use of Surgical Simulators in Gynecology Across French Academic Schools : a National Survey	Original	no	Patrice	Crochet	MD	Assistance Publique des Hôpitaux de Marseille		X										
AEI2014	Design of a Virtual Reality Training Curriculum for Laparoscopic Colorectal Surgery	Original	no	Laura	Beyer-Berjot	MD	Imperial College London	X	X	X				X					
AEI2014	Evaluation of the Effectiveness of Self-Directed Learning Using a Take-Home Laparoscopic Simulator to Supplement Clinical Training	Original	no	Kathleen	Elliott	BSc(Hon), MB, BCh, MRCS	Imperial College London		X	X			X						
AEI2014	Facilitating the Implementation of the ACS/APDS Phase III Skills Curriculum: Training Faculty in the Assessment of Team Skills	Original	no	Louise	Hull	PhD	Imperial College London	X	X										
AEI2014	Immersion Training in Simulation Brings Hyper-Realism to Training	Original	no	Anthony	LaPorta	MD, FACS	Rocky Vista University School of Medicine	X	X	X	X	X	X						
AEI2014	Intracorporeal Suturing: Transfer from FLS to Cadavers Results in Substantial Increase in Mental Workload	Original	yes	Rebecca	Britt	MD, FACS	EVMS	X	X	X									
AEI2014	Pediatric inguinal hernia tutorial using simulation. Development and validation of clinical and surgical models	Original	no	Jean	Breaud	PhD	Nice University Hospital	X	X	X									
AEI2014	Skills Degradation of Seasoned General Surgeons Subjected to Gaps in Standard Practice Patterns Due to Combat Deployments	Original	no	Yong	Choi	MD, FACS	Dwight D. Eisenhower Army Medical Center/Fort Gordon				X		X	X					
AEI2014	Surgical care checklists to optimise patient care following post-operative complications	Original	no	Philip	Pucher	MD, MRCS	Imperial College London	X				X		X					
AEI2014	Surgical Skill Performance Prediction: Application of a Cognitive Model to Laparoscopic Skill Retention Simulation Training	Original	no	Tiffany	Jastrzembki	PhD	Air Force Research Laboratory/Wright-Patterson AFB	X		X									
AEI2015	An examination of the "seductive details effect" in acquisition and transfer of laparoscopic suturing skills	Original	yes	Gardner	Aimee	PhD	UT Southwestern	X	X	X	X								

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AEI2015	Basic skills training - black box or high fidelity simulators?	Original	no	Enochsson	Lars	MD, PhD	Karolinska University Hospital	X	X	X			X				
AEI2015	Comparing Simulators and Live tissue for life-saving hemorrhage and airway procedures: Evaluation of Critical Failures	Original	no	Sweet	Robert	MD, FACS	University of Minnesota/SimPORTAL	X	X	X							
AEI2015	CORNERSTONE: Implementing Universal Patient Safety Checklist Discipline During the First Year of Medical School	Original	no	Moorman	Matthew	MD, FACS	Cleveland Clinic	X	X		X	X					
AEI2015	Development of an evidence-based virtual reality training curriculum for laparoscopic hysterectomy	Original	no	Crochet	Patrice	MD	Assistance Publique des Hopitaux de Marseille	X		X			X				
AEI2015	Eye-Gaze Strategies Affect Performance on Arthroscopic Simulators	Original	no	LeBlanc	Justin	MD, FRCSC	University of Calgary (University of Toronto)	X	X	X							
AEI2015	Faculty Development practices at ACS AEI's	Research Idea	no	Cooper	Jeffrey	PhD	ACS AEI Faculty Development Committee Study Paper	X	X								
AEI2015	Optimizing the selection of general surgery residents: a national consensus	Original	no	Louridas	Marisa	MD	University of Toronto			X							
AEI2015	Pressurized Cadaver Flow Model (PCM): a Novel Model for Endovascular Surgical Training	Descriptive	no	Ayers	Joseph	MD	Navy Medical Center San Diego	X	X								
AEI2015	Simulation versus Operating Room: Examining Relations between Emotional States, Learning Processes, and Technical Skills Performance across Training Environments	Work in Progress	no	Duffy	Melissa	MA	McGill University		X	X							
AEI2015	Simulation-based Training for Safety Incidents: Lessons from Analysis of Adverse Events in Robotic Surgical Systems	Work in Progress	no	Raman	Jaishankar	MD	Rush University Medical Center (University of Chicago)	X	X				X				
AEI2015	Teaching Professionalism in Graduate Medical Education: What is the Role of Simulation?	Work in Progress	yes	Wali	Eisha	BS	Case Western	X	X		X						
AEI2015	The Correlation of Salivary Cortisol and Alpha Amylase in the execution of Realistic Surgical Trauma Simulation and Medical Student Training.	Original	no	LaPorta	Anthony	MD, FACS	Rocky Vista University School of Medicine	X	X	X	X						
AEI2015	The Utility of Electronic Tablets in ATLS Skills Evaluation	Descriptive	no	Chotiner	Marie	BA	CAMLS			X	X						
AEI2016	An interactive multicenter multi-national virtual grand rounds for ACS AEI	Original	no	Ivan	George		Anne Arundel			X	X						
AEI2016	Measuring the Tools of the Future: How Will We Tell the Effectiveness of Training	Original	no	Anthony	LaPorta	MD, FACS	Rocky Vista University School of Medicine	X		X	X	X					
AEI2016	The Effects of a Retention Interval and Refresher Session on Intracorporeal Suturing Skill and Mental Workload	Original	no	Rebecca	Britt	MD, FACS	EVMS			X	X						

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AEI2016	Video Analysis of Path Length in Basic Skills Training: A Way to Expand the Value and Use of Basic Skills BlackBox Training?	Original	no	Lars	Enochsson	MD, PhD	Karolinska University Hospital				X	X						
AEI2017	AEI best practices: A review of 2011 to present	Original	yes	Cooke	James	MD	University of Michigan											
AEI2017	Bridging the Gap between Acute Care Surgeons and Endovascular Techniques: Simulation Training for Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA)	Original	no	Brenner	Megan	MD, MS, FACS	U of Maryland											
AEI2017	First Year of Virtual Grand Rounds: A Report from the Technologies and Simulation	Original	no	George	Ivan		Anne Arundel											
AEI2017	Performance on a Physical Endoscopic Simulation Platform Predicts Performance on the Fundamentals of Endoscopic Surgery (FES) Manual Skills Exam	Original	no	Taylor	Zachary	DO	USU	X		X								
AEI2017	Personalized video feedback to improve "at home" pre-residency preparation of surgical interns	Original	yes	Naik	Nimesh	MD	Mayo Clinic Rochester											
AEI2017	Sepsis Training using Interactive Virtual Reality (IVR)	Original	no	Sankaran	Naveen Kumar	MS	University of Illinois-Urbana	X	X	X	X							
AEI2017	Simulated Trauma and Procedural Training in a Collaborative Human Cadaver Lab Integrating Emergency Medicine and General Surgery Residents: Effectiveness and Outcomes	Original	no	Esparaz	Joe	MD	University of Illinois, Peoria				X							
AEI2017	Successful Computerizing the ATLS® Post-Test: Outcome of an AEI Multisite Study	Original	no	Telford	Britany	BS	CAMLS	X		X								
AEI2017	Team Based Simulation: Another Tool to Teach Operating Room Fire Safety	Descriptive	no	Ahuja	Vanita	MD, MPH, MBA	Lifebridge Health Sinal Hospital						X					
AEI2017	Team-based Simulations for New Surgeons: Does Early and Often make a Difference? □	Original	yes	AbdelFattah	Kareem	MD	UT Southwestern	X										
AEI2017	Time Crunch: Increasing the Efficiency of Technical Surgical Skill Assessment via Brief Video Clips	Original	yes	Sawyer	John	BS	Medical University of South Carolina											
AEI2017	Value-based Simulator Selection: The Creation and Evaluation of the Simulator Value Index Tool	Original	yes	Rooney	Deborah	PhD	University of Michigan											
AEI2018	Calculating the Return on Investment – Quantifying the Value of Simulation Training for Housekeeping.	Original Paper	no	Dmitry	Nepomnayshy	MD	Lahey Clinic					X						
AEI2018	Current Research Priorities in Surgical Simulation	Original Paper	yes	Nicholas	Anton	MS	Indiana University School of Medicine											Needs Assessment
AEI2018	Development of a sustainable simulation-based training curriculum in a community-based teaching program: scenarios, benefits, and implications.	Poster Presentation	no	Vanita	Ahuja	MD, MPH, MBA	Sinai Hospital of Baltimore			X				X				

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AEI2018	Development, Implementation, and Evaluation of a Competency-Based Urology Bootcamp for Training First-year Urology Residents, A Prospective Cohort Pilot Study with Historical Controls	Innovative Techniques	no	Yuding	Wang	MD	McMaster University	X										
AEI2018	Evaluating the Quality of Video-taped Debriefings after Simulation Team Training	Original Paper	yes	John	Paige	MD	LSUHSC SCHOOL OF MEDICINE		X									
AEI2018	Facilitating Accurate Team Self-Assessments: Can Simulation Play a Role?	Original Paper	no	Aimee	Gardner	PhD	Baylor College of Medicine		X	X								Teamwork
AEI2018	Implementation and Evaluation of a Comprehensive Proficiency-Based Upper GI Curriculum: A Multi-Institutional Canadian Experience	Poster Presentation	no	Boris	Zevin	MD, PhD, FRCSC	Queen's University	X	X									
AEI2018	Laparoscopic Peg Transfer Simulation Tasks with Two Difficulty Levels: Analysis of Two Years Interns' Performance and Workload	Original Paper	no	Amro	Abdelrahman	MBBS	Mayo Clinic Rochester			X								
AEI2018	Mental Skills Training Limits Operative Skill Decay Under Stressful Conditions: Results of a Multi-Site Randomized Controlled Study	Poster Presentation	no	Nicholas	Anton	MS	Indiana University School of Medicine	X										
AEI2018	Performance Variability During Training on Simulators Predicts Skill Transfer	Original Paper	yes	John	Martin	MD	Indiana University			X								Performance Assessment
AEI2018	Teaching Practicing Surgeons What Not to Do: An Analysis of Instructor Coaching Fluidity During a Simulation Based CME Course	Poster Presentation	yes	Martha	Godfrey	MD	University of Wisconsin, Madison		X									
AEI2018	The Role of Posture Assessment Tools in Identifying Trainees' Postures during Surgical Simulation	Original Paper	no	Christopher	Curry		University of Minnesota/Mayo Clinic		X	X								
AEI2018	The Use of a Virtual Reality Trauma Simulation to Teach Team Roles and Communication	Innovative Techniques	no	Amy	Sisley	MD	Banner University Medical Center		X									
AEI2018	The Use of Virtual Humans in a Simulated OR for Surgical Education	Innovative Techniques	no	Josue	Menard	MD	University of Florida, Jacksonville	X										
AEI2018	Tissue Morcellation: A Simulation Curriculum for Gynecology Residents	Poster Presentation	no	Stephanie	Delgado	MD	Boston Medical Center	X	X									
AEI2018	Towards Surgeon-Authored VR Training: the Authoring Interface	Poster Presentation	no	George	Sarosi	MD	University of Florida		X									Surgeon-Authored VR Training
AEI2018	Use of Innovative Approaches to Create a Specialty Specific Urology Skills Program	Poster Presentation	no	Barbara	Lewis	MS, RN	University of Wisconsin	X										Innovative Techniques
AEI2018	Utilizing Brain Stimulation to Enhance Laparoscopic Technical Skills Training: A Randomized Controlled Trial	Innovative Techniques	no	Morgan	Cox	MD, MHS	Duke University		X									
AEI2018	What Errors Do Surgical Residents Commonly Commit?	Original Paper	no	Tomoko	Mizota	MD	Indiana University School of Medicine											Needs Assessment

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AEI2018	Will eye tracking video feedback enhance simulator performance?	Poster Presentation	no	Markus	Castegren	MD, PhD	Karolinska University Hospital		X								
AEI2019	Laparoscopic Port Placement Concepts; It's All About Fundamentals	Poster Presentation	no	Nimesh	Naik	MD	Mayo Clinic Rochester		X								
AEI2019	Simulation Training for Endoscopic Management of Upper Gastrointestinal Bleeding: A Nationwide Survey of Rural Surgeons' Needs and Preferences Analysis	Original Paper	no	Shawn	Purnell	MD	Houston Methodist Hospital & University of Utah		X								
AEI2019	Use of Sensors to Quantify Procedural Idle Time: Validity Evidence for a New Mastery Metric	Original Paper	yes	Kenneth	Perrone	MD	Stanford University			X							
AEI2019	Validation of a Novel Needle Holder to Train Advanced Laparoscopy Skills to Novices in a Simulator Environment.	Poster Presentation	no	Ninos	Oussi	MD	Karolinska University Hospital Sweden						X				
AEI2019	What should we teach in a general surgery simulation curriculum? A faculty and resident needs assessment	Poster Presentation	no	Karen	Dickinson	MBBS, MSc, MD, FRCS	MITIE	X									