

**AEI Consortium Abstracts Since 2008**  
**Abstracts By Research Category - Patient Safety**

Please note, TBD=To Be Determined and NA=Not Available

Abstract Type Key: Descriptive, NA, Non-AEI, Original, Research Idea and Work in Progress (2008-2017);  
 Innovative Techniques, Original Paper and Poster Presentation (2018-Current)

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									Patient Safety	Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Surgical Outcomes	Investigation	Education	In-Development	Other		
AEI2010	A low cost simulator to reduce global rates of maternal mortality	Original	no	no	Perosky	J		University of Michigan	X	X	X									
AEI2010	Development and Implementation of a System-Wide Central Venous Catheterization Curriculum	Descriptive	no	no	Wright	Andrew	MD, FACS	University of Washington/ISIS	X	X	X		X							
AEI2010	Investigating of Surgeon's Vigilance on Patient's Condition Using Eye-Tracking Techniques	Original	yes	no	Zheng	Bin	PhD	CESEI	X			X		X						
AEI2010	Simulation-based mock code curriculum correlates with increased pediatric CPA survival rates	Original	no	no	Andreatta	Pamela	EdD, MFA, MA	University of Michigan	X	X	X		X	X						
AEI2010	Simulation-based training improves applied clinical placement of ultra-sound guided PICCs	Original	no	no	Andreatta	Pamela	EdD, MFA, MA	University of Michigan	X		X	X								
AEI2010	The Missing Link: Integrating the Patient Population with Surgical Education through Web-based Training and In-situ Simulation®	Research Idea	no	no	Hamman	William	MD, PhD	Beaumont Health System	X	X	X		X							
AEI2010	Using Deliberate Practice to Train Higher-Order Skills in Laparoscopic Surgery	Work in Progress	yes	no	Beaubien	Jeffrey	PhD	Beaumont Health System	X	X	X	X		X						
AEI2011	A Comparison Study of Basic Skills Acquisition with Virtual Reality and Physical Reality Simulation Training	Original	no	no	Loukas	Constantinos	PhD	University of Athens	X	X	X	X								
AEI2011	Anatomy-focused videos to supplement surgical curriculum	Descriptive	no	no	Arora	Anjali	MD	EVMS	X	X	X	X		X						
AEI2011	Assessing the Impact of Debriefing on Mental Workload	Original	no	no	Sharma	Bharat	MD	University of Toronto	X		X	X								
AEI2011	Behavioral Impact of Inter-Professional Student Operating Room Team Training using High Fidelity Simulation	Original	no	no	Paige	John	MD, FACS	LSUHSC-New Orleans	X	X	X	X								
AEI2011	Design and Validation of a Surgical Skills Assessment Tool for Laparoscopic Roux-en-Y Gastric Bypass	Work in Progress	yes	no	Zevin	Boris	MD	University of Toronto	X	X		X								
AEI2011	Enterprise Deployment of a Simulation-based Training and Management program for Central Venous Catheters	Original	no	no	Sinanan	Mika	MD, PhD	University of Washington/ISIS	X	X				X						
AEI2011	Integration of Procedural Skills Simulation and Just In Time Training into an Advanced Physical Diagnosis Program	Work in Progress	no	no	Jasper	Edward	MD	Thomas Jefferson University	X	X	X	X								
AEI2011	Interdisciplinary team training identified significant discrepancies between institutional policies and clinical practice	Descriptive	no	no	Andreatta	Pamela	PhD	University of Michigan	X					X						
AEI2011	Interdisciplinary team training led to successful management of a rare Obstetric emergency	Original	no	no	Andreatta	Pamela	PhD	University of Michigan	X		X			X	X					
AEI2011	Low-Hanging Fruit: Using Clementines for laparoscopic surgery training in gynecological oncology	Original	no	no	Andreatta	Pamela	PhD	University of Michigan	X	X	X	X		X	X					
AEI2011	Patient-Specific Simulated Rehearsal for the Carotid Artery Stenting Procedure	Original	yes	no	Willaert	Willem	MD	Imperial College London	X		X			X	X					
AEI2011	Use of decision based simulation to explore shared mental models in the operating room	Original	no	no	Pugh	Carla	MD, PhD	Northwestern University	X			X								

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AEI2011	Utilization of Simulation Based Training and Objective Structured Assessment of Technical Skills for Credentialing of Central Venous and Arterial Line Placement in the Surgical Intensive Care Unit	Work in Progress	no	no	Ali	Noaman	MD	Beaumont Health System	X	X	X	X							
AEI2011	Validation of a Novel Assessment Tool for Central Venous Catheterization	Original	no	no	Wright	Andrew	MD, FACS	University of Washington/ISIS	X	X	X	X	X						
AEI2012	Differences Between Resident Specialties, Education & Faculty: Results of an All GME Resident Boot Camp	Original	no	no	Gregory	James	MD	Conemaugh Memorial Hospital	X	X	X	X		X					
AEI2012	Evaluation of Stress on Laparoscopic Skills of Surgical Residents in Simulation-Based Education	Research Idea	no	no	Boyer	William	DHSc	Lehigh Valley Health Network	X		X	X							
AEI2012	Hemostasis in a non-compressible hemorrhage model: an end-user evaluation of hemostatic agents in a proximal arterial injury	Original	no	no	Satterly	Steven	MD	Madigan Army Medical Center	X			X	X	X					
AEI2012	Initial Steps Towards the Development of a De Novo Simulation-Based Anesthesia Curriculum	Work in Progress	no	no	Ozawa	Edwin	MD, PhD	Lahey Health System	X	X	X								
AEI2012	Laparoscopic Cholecystectomy Simulation-Based Training: Does the Type of Trainer Matter?	Original	no	no	Paige	John	MD, FACS	LSUHSC-New Orleans	X	X	X	X	X	X					
AEI2012	Simulation Based Training in High Risk/Low Frequency Situations: A Case Presentation	Descriptive	no	no	Radcliffe	Benjamin	MD	Riverside Methodist Hospital	X	X	X	X	X	X					
AEI2012	Simulation enhances surgery residents' opinion on the importance of team working	Original	no	no	Breaud	Jean	MD, PhD	University of Nice	X		X		X						
AEI2012	The Anatomy of Bronchoscopy Simulation: Enhancing Experiential Learning through Embedded Research Algorithms (EMA)	Work in Progress	no	no	Hafey	Robert	BS	SiTEL's Clinical Simulation Center of MedStar Health	X	X	X	X	X						
AEI2013	International Consensus on Defining and Measuring Quality in Surgical Training	Original	yes	no	Singh	Pritam	MBBS, MA, MRCS	Imperial College London	X				X						
AEI2013	Surgical Training: Design of a Virtual Care Pathway Approach	Descriptive	yes	yes	Beyer-Berjot	Laura	MD	Imperial College London/St. Mary's Hospital	X	X	X			X					
AEI2013	The Community as a Learner Group	Descriptive	no	no	Feher	Cathynn	RN, MSN	Lehigh Valley Health Network	X				X						
AEI2013	The Future of Surgical Training: National Needs Assessment of Stakeholders	Original	yes	yes	Kim	Sara	PhD	ACS AEI Curriculum Committee Study Paper	X	X			X						
AEI2013	Utilization of the Human-Worn Partial Task Surgical Simulator in Extreme environmental terrain and weather conditions.	Original	no	no	Rush	Robert	MD	Madigan Army Medical Center	X	X	X	X	X						
AEI2013	Utilization of Operating Room Simulation to Enhance Surgical Resident Participation in the Surgical Timeout Checklists	Original	no	no	Dominguez	Edward	MD	Riverside Surgical Associates	X	X	X	X							
AEI2014	A Novel Educational Module for Subclavian Venous Catheter Placement Using Ultrasound Guidance	Original	no	no	Bayci	Andrew	MD	Beaumont Health System	X	X	X			X					
AEI2014	A Randomized Controlled Study to Evaluate the Role of Video-Based Coaching in Training Laparoscopic Skills	Original	yes	no	Singh	Pritam	MB, BS, MA, MRCS	Imperial College London	X	X	X	X	X						
AEI2014	Complications Related to Chest Tube Placement at the Mayo Clinic and a Plan for Quality Improvement	Original	no	no	Ruparel	Raaj	MD	Mayo Clinic Rochester	X	X	X		X	X					

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AEI2014	Effectiveness of Systems Changes Suggested by Simulation of Adverse Surgical Outcomes	Original	no	no	Garstka	Meghan	MD, MS	Tulane University School of Medicine	X		X		X						
AEI2014	Emergency Medical Simulation Training for the General Dental Resident	Descriptive	no	no	Young	Andrew	DDS, DNB	UT Center for Advanced Medical Simulation/UTMCK	X	X	X								
AEI2014	Enhancing Interprofessional Collaboration through Simulation-Based Team Training in Clinical Oncology	Original	no	no	James	Ted	MD, MS, FACS	University of Vermont	X	X	X	X	X						
AEI2014	Evaluation of the Effectiveness of Self-Directed Learning Using a Take-Home Laparoscopic Simulator to Supplement Clinical Training	Original	yes	no	Elliott	Kathleen	BSc(Hon), MB, BCh, MRCS	Imperial College London	X		X	X							
AEI2014	From the Trauma Bay to the ICU: a novel horizontal simulation curriculum for surgical residents	Original	no	no	Miyasaka	Kiyoyuki	MD	University of Pennsylvania	X	X	X	X	X						
AEI2014	Hazard Zones: For Focused Complex Laparoscopic Surgical Skills Training	Original	no	no	Louridas	Marisa	MD	University of Toronto	X	X	X								
AEI2014	Immersion Training in Simulation Brings Hyper-Realism to Training	Original	yes	no	LaPorta	Anthony	MD, FACS	Rocky Vista University School of Medicine	X	X	X	X	X	X					
AEI2014	Innovative Approach to Faculty Development Utilizing Simulation	Original	no	no	Zigmont	Jason	PhD	OhioHealth	X	X	X			X					
AEI2014	Practicality of Using Galvanic Skin Response to Measure Intra-operative Physiological Autonomic Activation in Operating Room Team Members	Descriptive	no	yes	Phitayakorn	Roy	MD, MEd	MGH	X		X	X							
AEI2014	Skills Degradation of Seasoned General Surgeons Subjected to Gaps in Standard Practice Patterns Due to Combat Deployments	Original	yes	no	Choi	Yong	MD, FACS	Dwight D. Eisenhower Army Medical Center/Fort Gordon	X			X		X					
AEI2014	The Implementation of Surgical Crisis Checklists in Perioperative Team Simulation	Original	no	no	Huffstutter	Paul	MD, FACS	UT Center for Advanced Medical Simulation/UTMCK	X		X			X					
AEI2014	The Relationship between Intra-operative Teamwork and Quality of Patient Care	Descriptive	no	yes	Phitayakorn	Roy	MD, MEd	MGH	X			X	X	X					
AEI2014	Through the Looking Glass: Comparison of Self-, Peer-, and Observer-based Assessment of Students during Inter-Professional Team Training	Original	no	no	Paige	John	MD, FACS	LSUHSC-New Orleans	X	X	X	X	X						
AEI2014	Who is the Ideal Partner for the Interdisciplinary Training of Surgery Residents?	Original	no	no	Stefanidis	Dimitrios	MD, PhD, FACS, FASMBS	Carolinas Healthcare System	X	X	X	X	X						
AEI2014	Worth a thousand words: Google Glass in surgery	Descriptive	no	no	Wallace	Gabriel	MD	University of Washington/SIS	X		X			X					
AEI2015	A Simulator and two tools: Validation of performance measures from a novel neurosurgery simulator using the current Standards framework	Descriptive	no	yes	Rooney	Deborah	PhD	University of Michigan	X	X	X	X		X					
AEI2015	Cadaveric Model for Training and Assessment of Traumatic Wound Management and Hemorrhage	Original	no	no	Reihnsen	Troy		University of Minnesota	X	X	X			X					
AEI2015	CORNERSTONE: Implementing Universal Patient Safety Checklist Discipline During the First Year of Medical School	Original	yes	no	Moorman	Matthew	MD, FACS	Cleveland Clinic	X	X	X		X						
AEI2015	Creating a Policy Development Methodology Utilizing Simulation and Implementation of an Operating Room Emergency Checklist	Descriptive	no	no	Delmonico	Theodore	MD	Lahey Health System	X										

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AEI2015	Developing a Coaching Mechanism for Practicing Surgeons	Original	no	yes	Stefanidis	Dimitrios	MD, PhD, FACS, FASMB	Carolinas Healthcare System	X	X	X	X		X					
AEI2015	Emergency Medical Simulation Training for the General Dental Resident	Original	no	no	Balderson	Chelsea	DDS, DNB	University of Tennessee Knoxville	X	X	X	X							
AEI2015	Immersion Team Training In Realistic Environment Improves Performance In Trauma Resuscitation	Original	no	yes	Siriratsivawong	Kris	MD	United States Medical Corps. (Naval Medical Center San Diego)	X	X	X	X	X						
AEI2015	Preliminary results of our simulation-based experience on the management of "blue codes" and emergent open conversion in the robotic operating room	Original	no	no	Gangemi	Antonio	MD	UIC	X	X	X		X						
AEI2015	Roles of Simulation in Ebola Preparedness Training	Work in Progress	no	no	Fernandez	Gladys	MD	Baystate Simulation Center	X		X		X						
AEI2015	Simulation-based Training for Safety Incidents: Lessons from Analysis of Adverse Events in Robotic Surgical Systems	Work in Progress	yes	no	Raman	Jaishankar	MD	Rush University Medical Center (University of Chicago)	X	X	X								
AEI2015	Student Perceptions of a Simulation-Based Surgery Clerkship Flipped Classroom	Original	no	yes	Liebert	Cara	MD	Stanford University	X	X	X		X						
AEI2015	Teaching Teamwork and Checklists Through Live 'Simulations' in the OR with Intact Care Teams Improves Buy-In	Descriptive	no	no	Zigmont	Jason	PhD	OhioHealth	X		X	X	X						
AEI2016	Innovations In 3D Modeling And Surgical Planning In General Surgery	Work in Progress	no	no	Andolfi	Ciro	MD	University of Chicago	X			X	X						
AEI2016	Measuring the Tools of the Future: How Will We Tell the Effectiveness of Training	Original	yes	no	LaPorta	Anthony	MD, FACS	Rocky Vista University School of Medicine	X	X		X	X						
AEI2016	Modern Paradigms in Surgical Training – An International Qualitative Study to Determine Factors Affecting the Implementation of Simulation-based Training Programmes	Original	no	no	Hosny	Shady	MB, BS, BSc(Hons), MRCS	Imperial College London	X	X									
AEI2017	Improving cross specialty recognition of atypical skin lesions through experiential learning	Other	no	no	Garon	Jeffrey	MD, BA	Conemaugh Memorial Hospital	X	X	X								
AEI2017	In Situ Multidisciplinary Obstetric Team Training for Emergencies: Maximizing Training Opportunities while Sensing Latent Threats to Patient Safety	Original	no	no	Greer	Joy	RN, BSN	Naval Hospital Portsmouth	X										
AEI2017	International Delphi Consensus on Critical Components of the Safe Surgical Ward: Identification of Factors for Educational Interventions and Quality Assessment	Original	no	no	Hassen	Yasmin	MB, BS, BSc(Hons), MRCS	Imperial College London	X										
AEI2017	Operating Room Crisis Checklists: Development of Simulation Training	Work in Progress	no	no	Trickey	Amber	PhD, MS	INOVA	X	X									
AEI2017	Out of the OR and Before the Bench: How to Prepare Surgical Residents for their First Interaction with Attorneys	Descriptive	no	no	Landmann	Alessandra	MD	University of Oklahoma HSC	X										
AEI2017	Outcomes Following Introduction of a Standardized Process To Improve Transitions of Care in a Surgical Practice	Original	no	no	AlJamal	Yazan	MD	Mayo Clinic Rochester	X	X			X	X					
AEI2017	Successful Implementation and Improvements Identified with in-situ Simulated Resuscitation Cases	Work in Progress	no	no	Doiron	Robert	MD	UC Davis	X										
AEI2017	Team Based Simulation: Another Tool to Teach Operating Room Fire Safety	Descriptive	yes	no	Ahuja	Vanita	MD, MPH, MBA	Lifebridge Health Sinal Hospital	X										

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AEI2017	The Translation of Simulation-Based Sharps Safety Education to Clinical Surgical Practices	Work in Progress	no	no	Klar	Melinda	RN	UTCAMS	X		X		X						
AEI2018	A Preclinical Cadaveric Evaluation of the Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) Catheter	Poster Presentation	no	no	Miller	Zachary	BS	University of Minnesota	X										
AEI2018	Development of a sustainable simulation-based training curriculum in a community-based teaching program: scenarios, benefits, and implications.	Poster Presentation	yes	no	Ahuja	Vanita	MD, MPH, MBA	Sinai Hospital of Baltimore	X		X								
AEI2018	Implementation of Institution-wide Central Venous Catheter Insertion Certification Program	Poster Presentation	no	no	Hartman	Julie	DC, MS	University of Iowa Center for Procedural Skills and Simulation	X										
AEI2018	Simulation based teamwork training can reduce barriers between surgery and anesthesia - focus group interviews with experienced OR staff	Poster Presentation	no	no	Escher	Cecilia	MD	CAMST	X										