

**AEI Consortium Abstracts Since 2008**  
**Abstracts by Title**

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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)

Abstract Title	Abstract Year	Type of Abstract	Multi-Institutional Study	Manuscript Published in Surgery	First Name	Last Name	Credentials	Institute	Categories of Research										
									Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Patient Safety	Surgical Outcomes	Investigation	Education	In-Development	Other	
\$500 REWARD: What Millennial Surgery Residents Will Do for a Buck	AEI2009	Work in Progress	no	no	David	Farley	MD, FACS	Mayo Clinic Rochester									X		
"Live Cadaver" A realistic training model for practicing neurovascular procedures:& Enhancing surgical skills	AEI2016	Descriptive	no	no	Emad	About	MD	Arkansas Neuroscience Institute											
A \$4.87 Model for Teaching and Assessing Basic Tube Thoracostomy Techniques	AEI2013	Original	no	no	Raaj	Ruparel	MD	Mayo Clinic Rochester		X									
A Comparison of Rotation-Integration and Block-time Integration of the ACS/APDS Surgical Skills Curriculum	AEI2017	Work in Progress	no	no	George	Ormond	MD	University of Vermont	X	X	X	X							
A comparison of self versus external assessment for technical tasks in surgery.	AEI2012	Descriptive	no	no	Boris	Zevin	MD	University of Toronto			X								
A Comparison of Surgical Training Quality Between the UK and the USA	AEI2013	Original	yes	no	Pritam	Singh	MBBS, MA, MRCS	Imperial College London		X		X							
A Comparison Study of Basic Skills Acquisition with Virtual Reality and Physical Reality Simulation Training	AEI2011	Original	no	no	Constantinos	Loukas	PhD	University of Athens	X	X	X		X						
A Comprehensive Curriculum for Advanced Laparoscopic Skills	AEI2010	Original	no	no	Neal	Orzech	MD	University of Toronto		X	X			X					
A Comprehensive Surgical Simulation Laboratory Improves Student Preparation for Surgical Internship	AEI2017	Descriptive	no	no	Andrew	Sundin	MD	University of Minnesota	X	X	X								
A Curriculum Using Simulation to Teach Interns Paracentesis	AEI2011	Descriptive	no	no	Katherine	Berg	MD	Thomas Jefferson University	X										
A Flexible Platform for Building Cumulative Milestone-Based Surgical Resident Portfolios	AEI2016	Descriptive	no	no	Avni	Khatri	BS	MGH	X		X	X							
A Focused and Dedicated One Week Basic Skills Curriculum Is Adequate To Reach The Expected Proficiency Level For First Year Surgery Residents In A Busy Residency Program.	AEI2010	Original	no	no	Ben Selvan	Chandrakaladhar	MS	Penn Medicine Clinical Simulation Center	X	X	X	X							
A Hybrid 3-D VR/Physical Pelvis for Training Surgically Relevant Anatomic Principles	AEI2011	Original	no	no	Erlan	Santos	MD	University of Minnesota/SimPORTAL	X	X	X								
A low cost simulator to reduce global rates of maternal mortality	AEI2010	Original	no	no	J	Perosky		University of Michigan	X	X			X						
A Model Curriculum of Immersive Simulation of Airway Emergencies to Enhance Professionalism in Resident Education	AEI2014	Work in Progress	no	no	Angela	Blood	MPH, MBA	University of Chicago	X	X	X								
A Model for Strengthening Faculty Teaching Effectiveness in a Skills Laboratory	AEI2009	NA	no	no	Debra	DaRosa	PhD	Northwestern University									X		
A Multi-Disciplinary Approach to Innovation in Surgical Education	AEI2008	NA	no	no	Rajesh	Aggarwal	MD, PhD, MA, FRCS	Imperial College London				X							
A Novel 3D Video Telemedicine System for Education	AEI2009	NA	no	no	Troy	Reihsen		University of Minnesota/SimPORTAL									X		
A novel approach to the resident skills curriculum: modules on rare and common procedures linked together with simulators created by the learner.	AEI2011	Original	no	no	Yulia	Zak	MD	Stanford Medical Center	X	X	X								
A Novel Basic Open Technical Skills Curriculum with Self- and Expert-administered Assessment Tools	AEI2010	Descriptive	no	no	Andrew	Wright	MD, FACS	University of Washington/ISIS	X		X	X							



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Adding Audio-Visual On-line Learning to a Surgery Simulation Curriculum Will Decrease Cognitive Load and Facilitate Learning for Surgical Interns.	AEI2012	Original	no	no	Shahzad	Ali	MD	Mayo Clinic Rochester	X	X	X			X				
Administrative Considerations When Implementing ACS Skills Curriculum	AEI2009	Descriptive	no	yes	Deborah	Rooney	PhD	Northwestern University							X			
Advanced Training in Laparoscopic Abdominal Surgery (ATLAS): a Systematic Review	AEI2013	Descriptive	yes	no	Laura	Beyer-Berjot	MD	Imperial College London/St. Mary's Hospital		X								
Advanced Trauma Operative Management Course: An Exemplar of Simulation Education Scenario Development	AEI2009	NA	no	no	Lenworth	Jacobs, Jr.	MD, MPH, FACS	Hartford Hospital								X		
AEI best practices: A review of 2011 to present	AEI2017	Original	yes	yes	James	Cooke	MD	University of Michigan										
An Evaluation of the Usefulness of the Standardized Patient Methodology in the Assessment of Surgery Residents' Communication and Professionalism	AEI2009	Work in Progress	no	no	Mohsen	Shabahang	MD, PhD	Texas A&M / Scott and White										X
An examination of the "seductive details effect" in acquisition and transfer of laparoscopic suturing skills	AEI2015	Original	yes	yes	Aimee	Gardner	PhD	UT Southwestern	X	X	X	X						
An interactive multicenter multi-national virtual grand rounds for ACS AEI	AEI2016	Original	yes	no	Ivan	George		Anne Arundel			X	X						
An Interdisciplinary Boot Camp Where Interns and Nurses Learn Together	AEI2013	Descriptive	no	no	Darlene	Bourgeois	MSN, RN	Lahey Health System	X	X		X						
Anatomy-focused videos to supplement surgical curriculum	AEI2011	Descriptive	no	no	Anjali	Arora	MD	EVMS	X	X	X		X	X				
Are Medical Students Being Taught Invasive Skills Using Simulation?	AEI2011	Descriptive	no	no	Katherine	Berg	MD	Thomas Jefferson University	X	X	X							
Artificial Blood CF1 Demonstrating Reduced Volume Loss for Open Surgery Simulation in Human Cadavers	AEI2016	Original	no	no	Joss	Fernandez	MD, FACS	MO Heart Center										
Assembling the Puzzle that is Surgical Education: A Look at a Proficiency-Based Knot-Tying and Suturing Curriculum	AEI2010	Research Idea	no	no	S	Nagar	MD	Beaumont Health System	X	X	X							
Assessing Quality and Resources During Campus-wide Simulation Integration	AEI2018	Poster Presentation	no	no	Joshua	Weis	MD	UT Southwestern	X									
Assessing Technical Competence in Surgical Trainees: A Systematic Review	AEI2014	Original	yes	no	Peter	Szasz	MD	University of Toronto		X	X	X		X				
Assessing the Impact of Debriefing on Mental Workload	AEI2011	Original	no	no	Bharat	Sharma	MD	University of Toronto		X	X		X					
Assessing the Validity and Reliability of Two GME Performance Assessment Tools for CME	AEI2013	Original	yes	no	Carla	Pugh	MD, PhD, FACS	University of Wisconsin			X							
Assessing the Value of the State Trait Anxiety Inventory for the Assessment of Intraoperative Stress Associated with Skill Transfer	AEI2011	Original	no	no	Dimitrios	Stefanidis	MD, PhD	Carolinas Healthcare System	X	X								
Assessment of subjects without experience in minimal access surgery performing a suture task at da Vinci robot	AEI2014	Original	no	no	Andrea	Moglia	PhD	EndoCAS	X	X	X							
Assessment of the core competencies in general surgery residents: A single institution experience	AEI2010	Non-AEI	no	no	Daniel	Alterman	MD	UT Center for Advanced Medical Simulation/UTMCK			X	X		X				
Augmenting Technical Skills Training Through Applications of Video, Neuro-feedback and Guided Imagery Training	AEI2011	Original	no	no	Ranjan	Sudan	MD	Duke University Medical Center		X								



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Complications Related to Chest Tube Placement at the Mayo Clinic and a Plan for Quality Improvement	AEI2014	Original	no	no	Raaj	Ruparel	MD	Mayo Clinic Rochester	X	X		X	X	X					
Computerizing the ATLS® Post-Test: Implications for Further Study	AEI2016	Original	no	no	Jenny	Guido	MD	USF											
Conflicting Opinions on the Use of Simulation for Nontechnical Skill Development at the Onset of Residency Training	AEI2017	Original	no	no	Natalie	Wagner	BSc(Hons)	McMaster University	X	X									
CORNERSTONE: Implementing Universal Patient Safety Checklist Discipline During the First Year of Medical School	AEI2015	Original	yes	no	Matthew	Moorman	MD, FACS	Cleveland Clinic	X	X		X	X						
CPR Devices & Impact on Infant Chest Compressions	AEI2016	Original	no	no	Carmen	Spalding	PhD	Naval Med Ctr San Diego			X	X							
Creating a Policy Development Methodology Utilizing Simulation and Implementation of an Operating Room Emergency Checklist	AEI2015	Descriptive	no	no	Theodore	Delmonico	MD	Lahey Health System						X					
Creating the Pre-Trained Novice: A Structured Central Venous Catheterization Curriculum	AEI2012	Original	no	no	Edgar	Figuredo	MD	University of Washington/ISIS	X		X								
Creation of a cost-effect per diem medical student work force for a busy American College of Surgeons Accredited Education Institute (AEI) – a model for use by consortium members	AEI2013	Original	no	no	Lauren	Karbach	BA	MITIE	X										
Crew resource management training in surgical residency programs: A survey of North American program directors	AEI2013	Original	no	no	Nicholas	Dedy	MD	St. Michael's Hospital/University of Toronto	X	X		X							
Critical Response Simulations: Works in Progress	AEI2009	NA	no	no	Jeffrey	Chipman	MD, FACS	University of Minnesota/SimPORTAL								X			
Crowdsourcing Unmet Needs in Simulation-Based Education and Technology	AEI2016	Original	no	no	Cory	Schaffhausen	PhD	University of Minnesota											
Current Research Priorities in Surgical Simulation	AEI2018	Original Paper	yes	yes	Nicholas	Anton	MS	Indiana University School of Medicine											Needs Assessment
Current Use of Surgical Simulators in Gynecology Across French Academic Schools : a National Survey	AEI2014	Original	yes	no	Patrice	Crochet	MD	Assistance Publique des Hôpitaux de Marseille			X								
Data-Driven Optimization of Surgeon Skills for Enhanced Training, Simulation, and Assessment	AEI2011	Work in Progress	yes	no	Noaman	Ali	MD	Beaumont Health System			X								
Deconstructing Laparoscopic Competence in a Virtual Reality Simulation Environment	AEI2010	Original	no	yes	Costas	Loukas	PhD	University of Athens				X	X						
Dedicated Two Week Proficiency-based Simulation Curriculum for Surgical Residents	AEI2015	Work in Progress	no	no	Ryota	Tanaka	MD, PhD	Grainger (NorthShore University)	X	X	X			X					
Deficiencies of the Surgical Curriculum Exposed	AEI2010	Original	no	no	Paul	Montero	MD	Carolinas Healthcare System	X	X	X	X							
Defining and Simulating Needle Insertion Forces for Percutaneous Renal Access	AEI2016	Original	no	no	Lauren	Poniatowski	MS	University of Minnesota											
Design and Validation of a Model for Training and Assessment of Procedural Skills in Open Surgery	AEI2011	Original	yes	no	Neil	Rittenhouse	MHSc	University of Toronto	X	X	X			X					
Design and Validation of a Surgical Skills Assessment Tool for Laparoscopic Roux-en-Y Gastric Bypass	AEI2011	Work in Progress	yes	no	Boris	Zevin	MD	University of Toronto	X		X			X					

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Design of a Virtual Reality Training Curriculum for Laparoscopic Colorectal Surgery	AEI2014	Original	yes	no	Laura	Beyer-Berjot	MD	Imperial College London	X	X	X			X				
Designing and Evaluating an Interpersonal and Communication Skills Curriculum Incorporating ACGME General Surgery Milestones: Opportunities and Challenges in Simulation-Based Approaches	AEI2017	Work in Progress	no	no	Paul	Huffstutter	MD, FACS	UTCAMS	X	X	X	X						
Determination of Standardized Tasks and Assessment for a Simulation-Based Curriculum in Arthroscopic Knee Surgery	AEI2011	Research Idea	no	no	Marie-Eve	LeBel	MD, FRCSC	University of Western Ontario	X	X								
Developing a Coaching Mechanism for Practicing Surgeons	AEI2015	Original	no	yes	Dimitrios	Stefanidis	MD, PhD, FACS, FASMBS	Carolinas Healthcare System	X	X	X		X	X				
Developing A Performance Assessment Device for the Laparoscopic Transperitoneal Nephrectomy Procedure	AEI2009	NA	yes	no	Elsbeth	McDougall	MD, FRCSC, MHPE	UC Irvine							X			
Developing a Proficiency-Based Virtual Reality Technical Skills Training curriculum for Laparoscopic Colorectal Surgery	AEI2011	Original	yes	no	Vanessa	Palter	MD	St. Michael's Hospital/University of Toronto	X									
Development and assessment of a simulator for open abdominal procedures: The DeepCAV	AEI2014	Original	no	no	Cameron	St. Hilaire		University of Washington/ISIS		X								
Development and Early Evaluation of a Web-based Pediatric Craniofacial Simulation Course Utilizing a 3D-Printed Surgical Simulator	AEI2018	Innovative Techniques	no	no	Chelsea	Reighard	MS	University of Michigan	X	X		X						
Development and Evaluation of an Open Aortic Aneurysm Repair Simulation	AEI2010	Non-AEI	no	no	Matt	Jones		UT Center for Advanced Medical Simulation/UTMCK	X	X	X							
Development and implementation of a clinical pathway approach to simulation-based training for foregut surgery	AEI2014	Original	no	no	Kiyoyuki	Miyasaka	MD	University of Pennsylvania	X	X		X						
Development and Implementation of a System-Wide Central Venous Catheterization Curriculum	AEI2010	Descriptive	no	no	Andrew	Wright	MD, FACS	University of Washington/ISIS	X	X		X	X					
Development of a Basic Vascular Specific Surgical Skills Laboratory	AEI2009	NA	no	no	Erica	Mitchell	MD, FACS	VirtuOHSU							X			
Development of a Breast Reconstruction Training Environment	AEI2017	Original	no	no	Alex	Viezel-Mathieu	MD, BS	McGill University										
Development of a Disaster Preparedness Interprofessional Education (IPE) Program for Health Profession Students	AEI2018	Poster Presentation	no	no	Edward	Jasper	MD, MPH	Thomas Jefferson University	X									
Development of a Laparoscopic Appendectomy Silicone Training Model Using Three-Dimensional Printing Technology	AEI2016	Original	no	no	Jonathan	Dort	MD, FACS	INOVA Health System										
Development of a sustainable simulation-based training curriculum in a community-based teaching program: scenarios, benefits, and implications.	AEI2018	Poster Presentation	yes	no	Vanita	Ahuja	MD, MPH, MBA	Sinai Hospital of Baltimore		X				X				
Development of Amputation Training Model for Surgical Skills Workshops	AEI2017	Original	no	no	Shumaila	Anwer	MS	University of Minnesota		X	X							
Development of an evidence-based virtual reality training curriculum for laparoscopic hysterectomy	AEI2015	Original	yes	no	Patrice	Crochet	MD	Assistance Publique des Hopitaux de Marseille	X		X			X				

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Development of high-fidelity simulated human tissue for surgical residency training	AEI2009	NA	no	no	Gladys	Fernandez	MD	Baystate Medical Center								X			
Development of In-Situ Simulation Lab for Training Gynecology Residents in Basic Laparoscopic and Hysteroscopic Operative Skills	AEI2017	Descriptive	no	no	Maria	Molina	MD	San Antonio Military Medical Center	X	X									
Development, Implementation, and Evaluation of a Competency-Based Urology Bootcamp for Training First-year Urology Residents, A Prospective Cohort Pilot Study with Historical Controls	AEI2018	Innovative Techniques	yes	no	Yuding	Wang	MD	McMaster University	X										
Differences Between Resident Specialties, Education & Faculty: Results of an All GME Resident Boot Camp	AEI2012	Original	no	no	James	Gregory	MD	Conemaugh Memorial Hospital	X	X	X			X	X				
Direct Anterior Approach THA Course Curriculum: An Interprofessional and Experiential Learning Model	AEI2016	Work in Progress	no	no	Lara	Murphy	DPM, BSc(Hons)	CSTAR	X										
Do Great Teams Think Alike? An Examination of Team Mental Models and their Impact on Team Performance	AEI2016	Original	no	yes	Aimee	Gardner	PhD	UT Southwestern											
Do Non-Technical Skills Improve with Technical Skills Training? A Comparison of Non-Technical Skills Rating and Operative Performance Rating in Simulation	AEI2016	Original	no	no	Rao	Raghavendra	MD	University of Pennsylvania	X		X	X							
Do Teamwork and Communication Concepts Learned in the Simulated Environment Transfer to the Trauma Bay?	AEI2015	Original	no	no	Darlene	Bourgeois	MSN, RN	Lahey Health System	X	X	X	X							
Does Musical Instrument Experience Correlate With Higher Performance On The Robot Simulator?	AEI2016	Original	no	no	Antonio	Gangemi	MD, FACS	UIC			X	X							
Does Participation in Case-based Cadaver Labs that Include Both Meta-cognitive and Technical Skills Correlate with Trainees' Performance on Surgical Exams and Preceptors' Evaluations?	AEI2018	Poster Presentation	no	no	Susan	Haynes	MS, MEd	Virginia Commonwealth University	X										
Does previous exposure to videogames and/or practice with musical instruments influence performance on a virtual simulator for robot-assisted surgery?	AEI2016	Original	no	no	Andrea	Moglia	PhD	EndoCAS											
Effect of Team Training on Resuscitation Times and Critical Errors in Simulated Trauma Following Shipboard Surgical Trauma Training (S2T2) Curriculum—Cumulative Data	AEI2016	Original	no	no	Ross	Mullinax	MD	Rocky Vista University School of Medicine											
Effectiveness of Systems Changes Suggested by Simulation of Adverse Surgical Outcomes	AEI2014	Original	no	no	Meghan	Garstka	MD, MS	Tulane University School of Medicine		X		X	X						
Effects of a Surgical Simulation Course on Undergraduate Surgical Clerkship Performance	AEI2017	Original	no	no	Michael	Tieman	MD, FACS	Rocky Vista University											
Effects of Sequential, Supervised Simulation Training on the Acquisition and Long-term Retention of Vascular Surgical Skills	AEI2018	Innovative Techniques	no	no	Cara	Lyle	MD	West Virginia University Hospitals	X	X					X				





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Eye-Gaze Strategies Affect Performance on Arthroscopic Simulators	AEI2015	Original	yes	no	Justin	LeBlanc	MD, FRCS	University of Calgary (University of Toronto)	X	X	X							
Face, content, construct validity and learning curve in robotic surgery simulation training: results of a multicentric evaluation of dV-Trainer®	AEI2013	Original	yes	no	Cyril	Perrenot	MD	Lorraine University	X	X	X	X						
Facilitating Accurate Team Self-Assessments: Can Simulation Play a Role?	AEI2018	Original Paper	yes	no	Aimee	Gardner	PhD	Baylor College of Medicine		X	X							Teamwork
Facilitating the Implementation of the ACS/APDS Phase III Skills Curriculum: Training Faculty in the Assessment of Team Skills	AEI2014	Original	yes	no	Louise	Hull	PhD	Imperial College London	X	X								
Faculty Development Practices at ACS AEI's	AEI2015	Research Idea	no	no	Jeffrey	Cooper	PhD	ACS AEI Faculty Development Committee Study Paper	X	X								
Faculty perceptions of barriers to completing surgical resident assessments: A multi-institutional qualitative needs assessment	AEI2016	Original	no	no	Laura	Mazer	MD	Stanford University			X	X						
Faculty Retention Strategies at Institute for Simulation and Interprofessional Studies (ISIS)	AEI2009	NA	no	no	Sara	Kim	PhD	University of Washington/ISIS									X	
Filling a void: Developing standard subjective assessment tool for surgical simulation through systematic review of current practices	AEI2013	Original	no	yes	F. Jacob	Seagull	PhD	University of Michigan		X	X							
First Year of Virtual Grand Rounds: A Report from the Technologies and Simulation	AEI2017	Original	yes	no	Ivan	George		Anne Arundel										
Force during Simulation-Based Orotracheal Intubation is predictive of Clinical Competency	AEI2018	Poster Presentation	no	no	Qasim	Al Abri	MD	McGill University										Objective Assessment
Four-Year Curriculum for Urology Residency Training	AEI2008	NA	no	no	Elsbeth	McDougall	MD, FRCS, MHPE	UC Irvine	X									
French language adaptation of the O.S.A.T.S score for a technical skills : methodology and preliminary results of the score adaptation	AEI2013	Research Idea	yes	no	Jean	Breud	PhD	University of Nice			X							
From the Trauma Bay to the ICU: a novel horizontal simulation curriculum for surgical residents	AEI2014	Original	no	no	Kiyoyuki	Miyasaka	MD	University of Pennsylvania	X	X	X	X	X					
Fundamentals of Laparoscopic Surgery (FLS) Manual Skills Assessment: Surgeon Versus Non-surgeon Raters	AEI2011	Original	yes	no	Deborah	Rooney	PhDc	Northwestern University				X						
Fundamentals of Laparoscopic Surgery Manual Test: Is videotaped performance assessment an option?	AEI2013	Work in Progress	no	no	Deborah	Rooney	PhD	University of Michigan	X		X	X						
Fundamentals of Robotic Surgery (FRS): Inanimate tasks for robotic surgical skills assessment and training	AEI2009	NA	yes	no	Alvin	Goh	MD	MITIE									X	
GEARS: An assessment tool to measure robotic surgical skills	AEI2009	NA	yes	no	Alvin	Goh	MD	MITIE									X	
Gelatin paravertebral spine model – A practical design for training general surgery resident's basic skills in placement of a continuous infusion catheter	AEI2016	Original	no	no	Shruti	Sevak	MD	Beaumont Health System			X	X						

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Hazard Zones: For Focused Complex Laparoscopic Surgical Skills Training	AEI2014	Original	no	no	Marisa	Louridas	MD	University of Toronto	X	X			X					
Healthcare Teams Typology	AEI2009	NA	no	no	Pamela	Andreatta	EdD, MFA, MA	University of Michigan								X		
Hemostasis in a non-compressible hemorrhage model: an end-user evaluation of hemostatic agents in a proximal arterial injury	AEI2012	Original	no	no	Steven	Satterly	MD	Madigan Army Medical Center			X	X	X	X				
I Have to Learn Laparoscopic Latero-Lateral Small Bowel Anastomosis: How Long Will it Take?	AEI2015	Original	no	no	Carlos	Manuel-Palazuelo	MD, PhD	Hospital virtual Valdecilla		X	X			X				
Identifying Learning Needs through Analysis of Coaching Profiles in Laparoscopic Bariatric Surgery	AEI2015	Original	no	no	Esther	Bonrath	MD	University of Toronto	X	X	X							
Immersion Team Training In Realistic Environment Improves Performance In Trauma Resuscitation	AEI2015	Original	no	yes	Kris	Siriratsivawong	MD	United States Medical Corps. (Naval Medical Center San Diego)	X	X	X	X	X					
Immersion Training in Simulation Brings Hyper-Realism to Training	AEI2014	Original	yes	no	Anthony	LaPorta	MD, FACS	Rocky Vista University School of Medicine	X	X	X	X	X	X				
Impact of a Structured Training and Assessment Curriculum (STAC) on the Quality of Skill Acquisition in MIS	AEI2009	Work in Progress	no	no	Neil	Orzech	MD	University of Toronto									X	
Imperial College Competency Assessment Tool (ICCAT)	AEI2008	NA	no	no	Rajesh	Aggarwal	MD, PhD, MA, FRCS	Imperial College London				X						
Implementation and Educational Outcomes for a Central Line Workshop Subtitle: A Simulation Center and Procedural Skills Lab Collaborative	AEI2008	NA	no	no	William	Dunn	MD	Mayo Clinic Rochester				X						
Implementation and Evaluation of a Comprehensive Proficiency-Based Upper GI Curriculum: A Multi-Institutional Canadian Experience	AEI2018	Poster Presentation	yes	no	Boris	Zevin	MD, PhD, FRCS	Queen's University	X	X								
Implementation and Evaluation of a Comprehensive Simulation-Enhanced Upper GI Training Curriculum in a Large Academic General Surgery Residency Training Program	AEI2014	Original	no	no	Boris	Zevin	MD	University of Toronto	X	X	X	X						
Implementation of Institution-wide Central Venous Catheter Insertion Certification Program	AEI2018	Poster Presentation	no	no	Julie	Hartman	DC, MS	University of Iowa Center for Procedural Skills and Simulation						X				
Improving cross specialty recognition of atypical skin lesions through experiential learning	AEI2017	Other	no	no	Jeffrey	Garon	MD, BA	Conemaugh Memorial Hospital	X	X				X				
Improving Surgical Skills Through Simulation Education	AEI2010	Original	no	no	Benjamin	Zendejas		Mayo Clinic Rochester	X	X	X							
In Situ Multidisciplinary Obstetric Team Training for Emergencies: Maximizing Training Opportunities while Sensing Latent Threats to Patient Safety	AEI2017	Original	no	no	Joy	Greer	RN, BSN	Naval Hospital Portsmouth						X				
Increased Stress Levels May Explain the Incomplete Transfer of Simulator-Acquired Skill to the Operating Room	AEI2009	NA	no	yes	Dimitrios	Stefanidis	MD, PhD, FACS	Carolinas Healthcare System								X		
Increasing survival of healthcare personnel during an active shooter attack: Establishing Face Validity of an interactive simulation training as a better teaching modality	AEI2017	Work in Progress	no	no	Marcos	Molina	MD	University of Minnesota	X									

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									Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Patient Safety	Surgical Outcomes	Investigation	Education	In-Development	Other	
Initial Steps Towards the Development of a De Novo Simulation-Based Anesthesia Curriculum	AEI2012	Work in Progress	no	no	Edwin	Ozawa	MD, PhD	Lahey Health System	X	X			X						
Innovations In 3D Modeling And Surgical Planning In General Surgery	AEI2016	Work in Progress	no	no	Ciro	Andolfi	MD	University of Chicago			X	X	X						
Innovative Approach to Faculty Development Utilizing Simulation	AEI2014	Original	no	no	Jason	Zigmont	PhD	OhioHealth	X	X			X	X					
Instituting a Surgical Skills Competition Increases Technical Performance of Surgical Clerkship Students Over Time	AEI2017	Original	no	no	Harold	Leraas	MA, BS	Duke University	X										
Integration of a Curriculum for the Surgeons Training Endoscopic Proficiency (STEP) Program into General Surgery Residency	AEI2011	Work in Progress	no	no	Andrew	Kastenmeier	MD	Lahey Health System	X	X									
Integration of Procedural Skills Simulation and Just In Time Training into an Advanced Physical Diagnosis Program	AEI2011	Work in Progress	no	no	Edward	Jasper	MD	Thomas Jefferson University	X	X	X			X					
Intensive, Integrated Pre-clinical Surgical Immersion Curriculum for Early Exposure to Surgery	AEI2017	Work in Progress	no	no	Brittany	Hasty	MD	Stanford University	X		X								
Interdisciplinary team training identified significant discrepancies between institutional policies and clinical practice	AEI2011	Descriptive	no	no	Pamela	Andreatta	PhD	University of Michigan					X	X					
Interdisciplinary team training led to successful management of a rare Obstetric emergency	AEI2011	Original	no	no	Pamela	Andreatta	PhD	University of Michigan		X			X	X	X				
International Consensus on Defining and Measuring Quality in Surgical Training	AEI2013	Original	yes	no	Pritam	Singh	MBBS, MA, MRCS	Imperial College London					X	X					
International Delphi Consensus on Critical Components of the Safe Surgical Ward: Identification of Factors for Educational Interventions and Quality Assessment	AEI2017	Original	no	no	Yasmin	Hassen	MB, BS, BSc(Hons), MRCS	Imperial College London							X				
Interprofessional Collaboration Facilitates Enhancements of a Preparation for Internship Curriculum	AEI2016	Original	no	no	Brent	Bauman	MD	University of Minnesota	X		X	X							
Inter-professional Education and Simulation to Improve Knowledge Retention of CAUTI	AEI2016	Original	no	no	Paula	Graling	DNP, RN	INOVA Health System	X		X	X							
Interprofessional Education: Simulation-based Mass Casualty Exercise	AEI2012	Descriptive	yes	no	J. Scott	Thomas	MD, FACS	Texas A&M / Scott and White	X			X							
Interprofessional Education: Simulation-based Mass Casualty Exercise	AEI2009	Descriptive	no	no	Rebecca	Wiatrek	MD	Texas A&M / Scott and White									X		
Interprofessional Simulations to Inform Perioperative Facility Planning and Design	AEI2017	Original	no	no	Kristoffel	Dumon	MD, FACS	Penn Medical Simulation Center											
Intracorporeal Suturing: Transfer from FLS to Cadavers Results in Substantial Increase in Mental Workload	AEI2014	Original	yes	yes	Rebecca	Britt	MD, FACS	EVMS	X	X	X								
Introducing team training and crisis management in the surgical residency program.	AEI2009	NA	no	no	Harsh	Grewal	MD, FACS	Temple University Hospital									X		
Introduction of a Comprehensive Training Curriculum in Laparoscopic Surgery for Medical Students: a Randomized Trial.	AEI2013	Original	no	yes	Nada	Gawad	HBSc	St. Michael's Hospital/University of Toronto	X	X	X				X				

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Introduction of VR Simulation Based National Training Course on Neurosurgery at Congress of Neurological Surgeons (CNS): Preliminary Results	AEI2013	Research Idea	no	no	Ben	Roitberg	MD	University of Chicago	X	X	X	X		X					
Investigating of Surgeon's Vigilance on Patient's Condition Using Eye-Tracking Techniques	AEI2010	Original	yes	no	Bin	Zheng	PhD	CESEI			X			X	X				
Knot Tying: Transforming Novice to Proficient Performance in less than 60 minutes. Can it be done?	AEI2018	Poster Presentation	no	no	Mohamed	Baloul	MBBS	Mayo Clinic Rochester		X	X								
Laboratory Simulation is Useful in Training Residents in Bowel and Vascular Anastomosis	AEI2013	Research Idea	no	no	Vijay	Mittal	MD	Providence Hospital and Medical Centers	X	X					X				
Laparoscopic Cholecystectomy Simulation-Based Training: Does the Type of Trainer Matter?	AEI2012	Original	no	no	John	Paige	MD, FACS	LSUHSC-New Orleans	X	X	X	X	X	X	X				
Laparoscopic Peg Transfer Simulation Tasks with Two Difficulty Levels: Analysis of Two Years Interns' Performance and Workload	AEI2018	Original Paper	yes	no	Amro	Abdelrahman	MBBS	Mayo Clinic Rochester						X					
Laparoscopic Repair of Perforated Peptic Ulcers: A Low Fidelity Simulator and Training Curriculum for Surgical Skill Development	AEI2018	Poster Presentation	no	no	Kristen	Cox		University of Minnesota		X									
Laparoscopic training in the UK	AEI2010	Original	no	no	Daniel	Brown		Imperial College London		X		X							
Learning to round before rounds	AEI2013	Descriptive	no	no	William	Yi	MD	SITEL's Clinical Simulation Center of MedStar Health	X	X	X								
Lessons Learned from 10-year Experience with Postgraduate Courses for Surgeons	AEI2009	NA	no	no	Dimitrios	Stefanidis	MD, PhD, FACS	Carolinas Healthcare System									X		
Longterm Impact of a Laparoscopic Renal Surgery Mini-Fellowship on Postgraduate Urologic Practice Patterns.	AEI2009	NA	no	no	Elsbeth	McDougall	MD, FRCS, MHPE	UC Irvine								X			
Long-term Impact of the Robot Assisted Laparoscopic Prostatectomy Mini-Residency Training on Post-Graduate Urologic Practice Patterns	AEI2008	NA	no	no	Michael	Louie	MD	UC Irvine				X			X				
Loss of skill retention of Intra-osseous catheter placement among residents over time	AEI2016	Original	no	no	Rex	Chung	MD	Cedars Sinai	X		X	X							
Low Fidelity Materials Yield High Resolution Assessment of Anatomical Knowledge...Really?	AEI2018	Original Paper	no	yes	Humza	Saleem	MD	Mayo Clinic Rochester	X		X								
Lower Gastrointestinal Endoscopy Simulation Training in a Surgical Skills Training Curriculum	AEI2009	NA	no	no	Raphael	El Youssef	MBBS	VirtuOHSU									X		
Low-Hanging Fruit: Using Clementines for laparoscopic surgery training in gynecological oncology	AEI2011	Original	no	no	Pamela	Andreatta	PhD	University of Michigan	X	X	X			X	X				
LSUHSC-NO Expands Surgical Education through Innovative Developments and Collaborations	AEI2008	NA	no	no	Sheila	Chauvin	MEd	LSUHSC-New Orleans		X									
LVHN The Level II Accreditation Journey	AEI2012	Descriptive	no	no	Cathyann	Feher	RN, MSN	Lehigh Valley Health Network	X			X							
Macrosystem Simulations in a New Hospital Facility	AEI2017	Original	no	no	Gladys	Fernandez	MD	Baystate Health											

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Manual Dexterity and Surgical Vocation: Which Came First?-Perhaps 3D Virtual Reality Simulators May Provide a Modern Answer to an Ancient Dilemma	AEI2014	Original	no	no	Antonio	Gangemi	MD, FACS	UIC		X	X	X						
Mastering Instruments at Hands before Operating on Patient - Role of Simulation in Training of Tool Use Skills	AEI2011	Original	no	no	Bin	Zheng	MD, PhD	CESEI						X				
Maximizing Benefit: Five Strategies for Getting the Most from Your Survey Assessment Instruments	AEI2014	Descriptive	no	no	Patrick	Barlow	BA	UT Center for Advanced Medical Simulation/UTMCK	X			X						
Measuring the Tools of the Future: How Will We Tell the Effectiveness of Training	AEI2016	Original	yes	no	Anthony	LaPorta	MD, FACS	Rocky Vista University School of Medicine	X		X	X	X					
Mental Practice Enhances Retention of Simulator-Acquired Surgical Skill: Results of a Randomized Controlled Trial	AEI2016	Original	no	no	Dimitrios	Stefanidis	MD, PhD, FACS, FASMBS	Carolinas Healthcare System										
Mental Skills Training Limits Operative Skill Decay Under Stressful Conditions: Results of a Multi-Site Randomized Controlled Study	AEI2018	Poster Presentation	yes	no	Nicholas	Anton	MS	Indiana University School of Medicine	X									
Mentorless Training Program Results in Significant Improvement in Students' Surgical Skills	AEI2017	Research Idea	no	no	Michelle	Leong	BS	Grainger/Northshore		X								
Methodologies for Establishing Validity in Surgical Simulation Studies	AEI2009	NA	no	yes	Sara	Kim	PhD	University of Washington/ISIS							X			
Methods for Increasing the Internal Validity of Assessment in Simulation: Lessons Learned in the Applied Perioperative Surgical Simulation Environment	AEI2014	Descriptive	no	no	Robert	Heidel	PhD	UT Center for Advanced Medical Simulation/UTMCK	X		X	X						
Michigan Hip Curriculum: Early evaluation of a new curriculum for diagnosis of developmental hip dysplasia	AEI2018	Innovative Techniques	no	no	Deborah	Rooney	PhD	University of Michigan	X									
Microsurgical Skills Training Course: The Effect on Microsurgery Trainees' Confidence and Workload	AEI2018	Poster Presentation	no	no	Anita	Mohan	MBBS	Mayo Clinic Rochester			X							
Modeling Operative Thinking in a Simulation-Based Continuing Medical Education Course on Laparoscopic Hernia Repair	AEI2017	Original	no	no	Andrew	Ruis	PhD	University of Wisconsin		X								
Modern Paradigms in Surgical Training – An International Qualitative Study to Determine Factors Affecting the Implementation of Simulation-based Training Programmes	AEI2016	Original	no	no	Shady	Hosny	MB, BS, BSc(Hons), MRCS	Imperial College London	X					X				
Modernizing educational paradigms by integrating surgical simulation across surgical specialties	AEI2018	Poster Presentation	no	no	Nicole	Siparsky	MD	Rush University Medical Center	X									
Multiple Simulation Modalities Enhanced a Preparation for Surgical Internship Course	AEI2017	Original	no	no	Brent	Bauman	MD	University of Minnesota	X	X								
New Longitudinal Procedure-Specific Curriculum for Minimally Invasive Surgery Skills Training and Retention	AEI2015	Original	no	no	Alexandre	Derevianko	MD, MA	Grainger (NorthShore University)	X	X	X							
No More Hotel Stays for ABS Examiners or Examinees: A Pilot Study to Assess the Internet as an Oral Exam Platform	AEI2011	Research Idea	yes	no	David	Farley	MD	Mayo Clinic Rochester		X	X							
Non-Technical Skills Assessment in the Post Operative Setting	AEI2010	Descriptive	no	no	Bharat	Sharma	MD	University of Toronto			X			X				

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Nurse Training with Simulation: An Innovative Approach to Teach Complex Microsurgery Patient Care	AEI2012	Descriptive	no	no	John	Potochny	MD, FACS	Penn State Hershey Medical Center	X	X		X							
Observational Learning During Simulation-based Training In Arthroscopy: Is It Useful To Novices?	AEI2015	Original	no	no	Marie-Eve	LeBel	MD, MHPE, FRCSC	University of Western Ontario	X	X	X								
Oh, The Stress of Simulation! Role of Skin Conductance as A Stress Indicator in Surgical Education.	AEI2016	Work in Progress	no	no	Monali	Mohan	MD	Mayo Clinic Rochester			X	X							
One's SIM trash is another's SIM treasure: SimPortal experience in the building of a percutaneous gastrostomy (PEG) skill trainer.	AEI2018	Poster Presentation	no	no	Marcos	Molina	MD	University of Minnesota		X									
Operating Room Crisis Checklists: Development of Simulation Training	AEI2017	Work in Progress	no	no	Amber	Trickey	PhD, MS	INOVA	X					X					
Operation room fire simulation study effectively prepares operating room staff for fire	AEI2016	Original	no	no	Tomokazu	Kishiki	MD, PhD	Grainger/NorthShore											
Optimizing Simulation-Based Interdisciplinary Teamwork Training for Medical and Nursing Students and Evaluating Its Long-term Effects	AEI2017	Original	no	no	Darlene	Bourgeois	MSN, RN	Lahey Clinic											
Optimizing the selection of general surgery residents: a national consensus	AEI2015	Original	yes	no	Marisa	Louridas	MD	University of Toronto			X								
Organization of a curriculum Designed to Transfer Learning from skills Lab to Bedside	AEI2009	NA	no	no	Debra	DaRosa	PhD	Northwestern University									X		
Orthopaedic boot camp II: Examining retention rates for skills taught through an intensive laboratory-based surgical skills course	AEI2011	Original	yes	yes	Ranil	Sonnadara	PhD, MSc	Mount Sinai Hospital		X		X							
Orthopaedic Boot Camp III: Examining the efficacy of student-regulated learning during an intensive laboratory-based surgical skills course	AEI2012	Original	no	yes	Ranil	Sonnadara	PhD	University of Toronto	X	X	X								
Orthopaedic boot camp: Examining the effectiveness of an intensive surgical skills course	AEI2010	Original	no	yes	Ranil	Sonnadara	PhD, MSc	University of Toronto	X	X	X	X		X					
Out of the OR and Before the Bench: How to Prepare Surgical Residents for their First Interaction with Attorneys	AEI2017	Descriptive	no	no	Alessandra	Landmann	MD	University of Oklahoma HSC						X					
Outcome Measures for Surgical Simulators: Is the focus on technical skills the best approach?	AEI2009	Original	yes	yes	Carla	Pugh	MD, PhD, FACS	Northwestern University								X			
Outcomes Following Introduction of a Standardized Process To Improve Transitions of Care in a Surgical Practice	AEI2017	Original	no	no	Yazan	AlJamal	MD	Mayo Clinic Rochester	X			X	X	X					
Patient Specific Simulation for Aortic Surgery Pre-procedural training	AEI2015	Original	no	no	Kevin	Lachapelle	MD, FACS, FRCSC	McGill University	X	X									
Patient-Centered Communication for Surgical Residents: A Simulation-Based Curriculum	AEI2016	Original	no	no	Amber	Trickey	PhD, MS	INOVA Health System		X	X	X							
Patient-Specific Simulated Rehearsal for the Carotid Artery Stenting Procedure	AEI2011	Original	yes	no	Willem	Willaert	MD	Imperial College London		X		X	X	X					
Pediatric inguinal hernia tutorial using simulation. Development and validation of clinical and surgical models	AEI2014	Original	yes	no	Jean	Breud	PhD	University of Quebec	X	X	X								

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									Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Patient Safety	Surgical Outcomes	Investigation	Education	In-Development	Other
Perceptions of Surgical Task Trainers – What Do Trainees Prefer?	AEI2013	Original	no	no	Raaj	Ruparel	MD	Mayo Clinic Rochester	X	X	X	X						
Performance on a Physical Endoscopic Simulation Platform Predicts Performance on the Fundamentals of Endoscopic Surgery (FES) Manual Skills Exam	AEI2017	Original	yes	no	Zachary	Taylor	DO	USU	X		X							
Performance Variability During Training on Simulators Predicts Skill Transfer	AEI2018	Original Paper	yes	yes	John	Martin	MD	Indiana University			X							Performance Assessment
Peroral Endoscopic Myotomy Curriculum For The Treatment Of Achalasia And Esophageal Motility Disorders Using Simulation & Animal Platforms	AEI2016	Original	no	no	Andrew	Wang	MD	Naval Med Ctr San Diego	X									
Personalized video feedback to improve "at home" pre-residency preparation of surgical interns	AEI2017	Original	yes	yes	Nimesh	Naik	MD	Mayo Clinic Rochester										
Phantom-Based Curriculum for Basics of Interventional Ultrasound	AEI2009	NA	no	no	Todd	Cannon		University of Washington/ISIS								X		
Physician Perception of Frailty and Role in Surgical Risk Assessment	AEI2013	Work in Progress	no	no	Mark	Ferguson	MD	University of Chicago	X									
Pilot Study Using Virtual Reality Simulation to Create a Novel Objective Test Battery of Sensory-motor Skills in Candidates for a Surgical Residency.	AEI2013	Work in Progress	no	no	Ben	Roitberg	MD	University of Chicago	X	X	X							
Pilot Testing of a Simulation Based Model for Suture Repair of Laparoscopic Bleeding	AEI2016	Original	no	no	James	McClintic	MS	UTMB			X	X						
Point-of-care Bedside Ultrasound Training: Expansion within a Surgical Internship Preparation Curriculum	AEI2017	Descriptive	no	no	Victor	Vakayil	MB, BS	University of Minnesota	X	X	X	X						
Pooling Resources: Creation of a Surgical Bootcamp that Straddles Specialty Lines	AEI2016	Original	no	no	Sharon	Bachman	MD, FACS	INOVA Health System			X	X						
Practicality of Using Galvanic Skin Response to Measure Intra-operative Physiological Autonomic Activation in Operating Room Team Members	AEI2014	Descriptive	no	yes	Roy	Phitayakorn	MD, MEd	MGH		X	X			X				
Prediction of Future Performance in Minimally Invasive Surgery – A Tool for Surgical Selection	AEI2011	Original	no	no	Rajesh	Aggarwal	MD, PhD, MA, FRCS	Imperial College London		X	X							
Preliminary results of our simulation-based experience on the management of "blue codes" and emergent open conversion in the robotic operating room	AEI2015	Original	no	no	Antonio	Gangemi	MD	UIC	X	X		X	X					
Preparing to Save a Life - Simulation Course for Penetrating Thoracic Trauma in a Low Volume Hospital	AEI2013	Descriptive	no	no	Dmitry	Nepomnayshy	MD, FACS	Lahey Health System	X	X	X							
Pressurized Cadaver Flow Model (PCM): a Novel Model for Endovascular Surgical Training	AEI2015	Descriptive	yes	no	Joseph	Ayers	MD	Navy Medical Center San Diego	X	X								
Problem Based Learning (PBL) with Supplemental Interactive Medical Multimedia (PBL-SIMM)	AEI2009	NA	no	no	Dayne	Mickelson		University of Washington/ISIS								X		
Proficiency – Targeted Simulation Training of Novice Surgeons Results in Improved Laparoscopic Skills Measured in the Operating Room	AEI2008	NA	no	no	Paul	Gauger	MD	University of Michigan							X			

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Proficiency gain curve and skills retention at a virtual simulator for robot-assisted surgery: a blind study	AEI2017	Original	no	no	Andrea	Moglia	PhD	EndoCAS											
Proving the Value of Secondary Task Metrics for Performance Assessment on Surgical Simulators	AEI2010	Original	yes	no	Dimitrios	Stefanidis	MD, PhD, FACS	Carolinas Healthcare System			X								
Psychometric Analysis of the Phase I ACS/APDS Skills Curriculum, Verification of Proficiency Examination	AEI2009	Original	no	no	Eric	Hungness	MD	Northwestern University							X				
Pushing the Milestone Project Further: Using X-Games (Simulation-Based Assessment) to Determine Promotional Eligibility among General Surgery Residents – A Preliminary Experience	AEI2013	Original	no	no	Raaj	Ruparel	MD	Mayo Clinic Rochester		X	X	X							
Quantifying Surgeon's Contribution to Team Effectiveness on a Mixed Team with a Junior Surgeon	AEI2010	Original	yes	yes	Bin	Zheng	PhD	CESEI	X		X				X				
Regional Collaboration for Technical Skills Training in Surgery Residencies	AEI2008	NA	no	no	Daniel	Scott	MD, FACS	UT Southwestern				X							
Relevance of various components of Surgical Skill Training workshop	AEI2009	NA	no	no	Irene	Yang		Temple University Hospital							X				
Report on the First Consensus Conference on the Fundamentals of Robotic Surgery: Outcome Measures	AEI2012	Original	yes	no	Richard	Satava, Jr.	MD, FACS	University of Washington/ISIS	NA	NA	NA	NA	NA	NA					
Resident Perception of Barriers to Adequate Patient Handoff	AEI2013	Original	no	no	Rebecca	Britt	MD	EVMS	X	X									
Residents' Perspectives on the Value of Simulation in a General Surgery Residency Curriculum	AEI2011	Original	yes	yes	Hania	Wehbe-Janek	PhD	Texas A&M / Scott and White			X	X							
Role of Instruction Method in Novices' Acquisition of Minimally Invasive Surgical (MIS) Basic Skills	AEI2009	NA	no	no	John	Paige	MD, FACS	LSUHSC-New Orleans							X				
Roles of Simulation in Ebola Preparedness Training	AEI2015	Work in Progress	no	no	Gladys	Fernandez	MD	Baystate Simulation Center		X		X	X						
Safe Adoption Of Robotic Training In Residency With a Fundamentals Of Robotic Surgery Curriculum -A 5 Year Experience In a Military Institution	AEI2016	Original	no	no	Alwin	Albert	MD	Naval Med Ctr San Diego	X		X	X							
Self/Peer Resident Assessment of the Basics of Open Laparotomy Training (BOLT) on a Simulated Abdominal Model	AEI2016	Original	no	no	Jessica	Fazendin	MD	Drexel University			X	X							
Sepsis Training using Interactive Virtual Reality (IVR)	AEI2017	Original	yes	no	Naveen Kumar	Sankaran	MS	University of Illinois-Urbana	X	X	X	X							
Serving Up Your Service: How Can YOU Assess Your Trainees?	AEI2016	Descriptive	no	no	Becca	Gas	BS	Mayo Clinic Rochester	X		X	X							
Setting Mastery Learning Standards for Laparoscopic TEP Inguinal Hernia Repair Simulator Training	AEI2011	Original	no	no	Benjamin	Zendejas	MD	Mayo Clinic Rochester	X	X	X								
Should the American Board of Surgery (ABS) Require Ultrasound Education Program for General Surgery Certification?	AEI2018	Poster Presentation	no	no	John	Agapian	MD, FACS, FCCM	University of California, Riverside/RUHS	X										
Simulated Operating Room Crisis during Robotic Surgery using a Completely Portable Human Patient Simulator (HPS)	AEI2009	NA	no	no	Rohan	Joseph		MITIE										X	



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Simulated Trauma and Procedural Training in a Collaborative Human Cadaver Lab Integrating Emergency Medicine and General Surgery Residents: Effectiveness and Outcomes	AEI2017	Original	yes	no	Joe	Esparaz	MD	University of Illinois, Peoria		X									
Simulating Azygos Vein Ligation - Deliberate Practice is Invaluable	AEI2014	Original	no	no	Phillip	Rowse	MD	Mayo Clinic Rochester	X	X	X								
Simulation based teamwork training can reduce barriers between surgery and anesthesia - focus group interviews with experienced OR staff	AEI2018	Poster Presentation	no	no	Cecilia	Escher	MD	CAMST						X					
Simulation Based Training in High Risk/Low Frequency Situations: A Case Presentation	AEI2012	Descriptive	no	no	Benjamin	Radcliffe	MD	Riverside Methodist Hospital	X	X	X	X	X	X					
Simulation Drives Our General Surgery Training Curriculum: A Work in Progress	AEI2008	NA	no	no	David	Farley	MD, FACS	Mayo Clinic Rochester	X										
Simulation enhances surgery residents' opinion on the importance of team working	AEI2012	Original	no	no	Jean	Breud	MD, PhD	University of Nice		X		X	X						
Simulation for Operative Laparoscopic skill Advancement of Residents (SOLAR): A Global Study	AEI2011	Original Paper	no	no	Rajesh	Aggarwal	MD, MA, PhD, MRCS	Imperial College London	X	X	X	X							
Simulation For the Assessment of Ward-based Surgical Care: Validation of the Simulated Ward and a Novel Assessment Tool	AEI2013	Original	no	no	Philip	Pucher	MD, MRCS	Imperial College London	X	X	X								
Simulation Training Improves Surgical Resident Comfort with Airway Management	AEI2017	Original	no	no	Kaitlin	Ritter	MD	Cleveland Clinic	X										
Simulation versus Operating Room: Examining Relations between Emotional States, Learning Processes, and Technical Skills Performance across Training Environments	AEI2015	Work in Progress	yes	no	Melissa	Duffy	MA	McGill University		X	X								
Simulation-augmented training program for Off-Pump Coronary Artery Bypass surgery: Developing and validating performance assessments	AEI2011	Original	no	yes	Sayra	Cristancho	PhD	University of Western Ontario	X		X				X				
Simulation-based distance education: practice and challenges	AEI2010	Original	no	no	Valentyna	Koval		CESEI	X	X	X	X							
Simulation-based mock code curriculum correlates with increased pediatric CPA survival rates	AEI2010	Original	no	no	Pamela	Andreatta	EdD, MFA, MA	University of Michigan	X	X		X	X	X					
Simulation-based Multiple Mini-interviews vs. Traditional Interviews in the Postgraduate Year 1 Cardiac Surgery Residency Program Selection Process	AEI2017	Original	no	no	Marina	Ibrahim	MD	McGill University					X						
Simulation-based Training for Safety Incidents: Lessons from Analysis of Adverse Events in Robotic Surgical Systems	AEI2015	Work in Progress	yes	no	Jaishankar	Raman	MD	Rush University Medical Center (University of Chicago)	X	X				X					
Simulation-based training improves applied clinical placement of ultra-sound guided PICCs	AEI2010	Original	no	no	Pamela	Andreatta	EdD, MFA, MA	University of Michigan		X	X			X					
Simulator leads to clinical practice changes for bimanual uterine compression to control	AEI2011	Descriptive	no	no	Pamela	Andreatta	PhD	University of Michigan		X			X						

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									Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Patient Safety	Surgical Outcomes	Investigation	Education	In-Development	Other	
Skills Degradation of Seasoned General Surgeons Subjected to Gaps in Standard Practice Patterns Due to Combat Deployments	AEI2014	Original	yes	no	Yong	Choi	MD, FACS	Dwight D. Eisenhower Army Medical Center/Fort Gordon			X		X	X					
Skills transfer between basic laparoscopic and colonoscopic simulator training	AEI2012	Original	no	no	Lars	Enochsson	MD, PHD	Karolinska University Hospital		X	X	X		X					
Solid, cystic and tubular – A compact gelatin-training model for teaching basic skills in ultrasound-guided procedures to general surgery residents	AEI2016	Original	no	no	Shrunti	Sevak	MD	Beaumont Health System			X	X							
Sticky Situations: Using foam stickers for precision and tissue handling in laparoscopic training	AEI2011	Original	no	no	Pamela	Andreatta	PhD	University of Michigan	X	X	X								
STOMP- Skills Training for Operational Medicine Providers: Design and Implementation of a Novel Comprehensive Skills-Based Curriculum for U.S. Navy Interns	AEI2016	Original	no	no	Travis	Polk	MD, FACS	Naval Med Ctr Portsmouth	X										
Student Perceptions of a Simulation-Based Surgery Clerkship Flipped Classroom	AEI2015	Original	no	yes	Cara	Liebert	MD	Stanford University	X	X		X	X						
Successful Computerizing the ATLS® Post-Test: Outcome of an AEI Multisite Study	AEI2017	Original	yes	no	Britany	Telford	BS	CAMLS	X		X								
Successful Implementation and Improvements Identified with in-situ Simulated Resuscitation Cases	AEI2017	Work in Progress	no	no	Robert	Doiron	MD	UC Davis						X					
Surgery Tutor – An Open Source Platform for Assessment of Technical Proficiency: A Validation Study in a Simulated Setting	AEI2018	Poster Presentation	no	no	Caitlin	Yeo	MD	Queen's University				X							
Surgical care checklists to optimise patient care following post-operative complications	AEI2014	Original	yes	no	Philip	Pucher	MD, MRCS	Imperial College London	X				X		X				
Surgical In-situ Simulations	AEI2010	Work in Progress	no	no	William	Hamman	MD, PhD	Beaumont Health System	X	X		X							
Surgical Interns in 2017: Objective Assessment Suggests they are Better but Still DANGEROUS	AEI2018	Original Paper	no	yes	Yazan	AlJamal	MD	Mayo Clinic Rochester			X	X							
Surgical Skill Performance Prediction: Application of a Cognitive Model to Laparoscopic Skill Retention Simulation Training	AEI2014	Original	yes	no	Tiffany	Jastrzembksi	PhD	Air Force Research Laboratory/Wright-Patterson AFB	X		X								
Surgical Skills Simulation Workshops Enhance the Effectiveness of Surgical Interest Groups	AEI2015	Descriptive	no	no	James	Harmon	MD, PhD	University of Minnesota	X	X									
Surgical Training: Design of a Virtual Care Pathway Approach	AEI2013	Descriptive	yes	yes	Laura	Beyer-Berjot	MD	Imperial College London/St. Mary's Hospital	X	X				X	X				
Survey-Based Team Assessments: A Critical Evaluation Of Behavioral Constructs And Item Selection	AEI2012	Original	no	no	Carla	Pugh	MD, PhD, FACS	Northwestern University		X	X								
Teaching Practicing Surgeons What Not to Do: An Analysis of Instructor Coaching Fluidity During a Simulation Based CME Course	AEI2018	Poster Presentation	yes	yes	Martha	Godfrey	MD	University of Wisconsin, Madison		X									
Teaching Professionalism in Graduate Medical Education: What is the Role of Simulation?	AEI2015	Work in Progress	yes	yes	Eisha	Wali	BS	Case Western Reserve	X	X		X							

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Teaching Teamwork and Checklists Through Live 'Simulations' in the OR with Intact Care Teams Improves Buy-In	AEI2015	Descriptive	no	no	Jason	Zigmont	PhD	OhioHealth		X	X	X	X						
Teaching the Essentials of Endocrine Surgery via Low-Cost, Low-Fidelity Simulation – A Clever Use of Yarn and Felt	AEI2013	Original	no	no	Raaj	Ruparel	MD	Mayo Clinic Rochester	X	X	X			X					
Teaching With Technology – What Do Millennial Learners Need?	AEI2015	Original	no	np	Meredith	Cody Thomas	BA	Lahey Health System	X										
Team Based Simulation: Another Tool to Teach Operating Room Fire Safety	AEI2017	Descriptive	yes	no	Vanita	Ahuja	MD, MPH, MBA	Lifebridge Health Sinal Hospital						X					
Team-based Simulations for New Surgeons: Does Early and Often make a Difference? □	AEI2017	Original	yes	yes	Kareem	AbdelFattah	MD	UT Southwestern	X										
Technical and non-technical skills influencing laparoscopic performance among OBGYN residents	AEI2013	Original	no	no	Lars	Enochsson	MD, PhD	Karolinska University Hospital	X	X	X			X					
The American College of Surgeons / Association of Program Directors in Surgery National Skills Curriculum: Adoption Rate, Challenges and Strategies for Effective Implementation into Surgical Residency Programs	AEI2012	Original	no	yes	James	Korndorffer, Jr.	MD, MHPE, FACS	Tulane University School of Medicine			X	X							
The Anatomy of Bronchoscopy Simulation: Enhancing Experiential Learning through Embedded Research Algorithms (EMA)	AEI2012	Work in Progress	no	no	Robert	Hafey	BS	SITEL's Clinical Simulation Center of MedStar Health	X	X	X	X	X						
The changing role of the surgical skills laboratory in the MIS training of general surgery residents: from a "cherry picking" approach to a standardized, proficiency-based curriculum	AEI2015	Original	no	no	Antonio	Gangemi	MD	UIC	X	X	X	X		X					
The Cognitive Side of Surgery	AEI2008	NA	no	no	Carla	Pugh	MD, PhD, FACS	Northwestern University			X								
The Community as a Learner Group	AEI2013	Descriptive	no	no	Cathyann	Feher	RN, MSN	Lehigh Valley Health Network				X	X						
The Correlation of Salivary Cortisol and Alpha Amylase in the execution of Realistic Surgical Trauma Simulation and Medical Student Training	AEI2015	Original	yes	no	Anthony	LaPorta	MD, FACS	Rocky Vista University School of Medicine	X	X	X	X							
The Creation of PGY Level Specific FLS Proficiency Benchmarks Allows for Longitudinal Tracking of Multiple General Surgery Milestones Domains	AEI2015	Descriptive	no	no	Donn	Spight	MD, FACS	VirtuOHSU	X	X	X								
The Current Educational Value of Morbidity & Mortality Conference	AEI2010	Original	no	no	Erica	Mitchell	MD, FACS	VirtuOHSU			X	X							
The Development and Implementation of a Pressurized Cadaver Simulation Curriculum	AEI2017	Descriptive	no	no	Michael	Minneti	BS	USC	X		X								
The Development and Implementation of a Simulation-based Curriculum to Teach Interns Invasive Skills	AEI2010	Original	no	no	Carmen	Sultana	MD, FACS	Thomas Jefferson University	X	X	X	X							
The Educational Value of the da Vinci Skills Simulator at a Regional Medical Center	AEI2018	Poster Presentation	no	no	Robert	Heidel	PhD	University of Tennessee			X								
The Effects of a Retention Interval and Refresher Session on Intracorporeal Suturing Skill and Mental Workload	AEI2016	Original	yes	yes	Rebecca	Britt	MD, FACS	EVMS			X	X							

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The Effects of the Addition of a Pediatric Surgery Fellow on the Operative Experience of the General Surgery Resident	AEI2013	Descriptive	no	no	Alexander	Raines	MD	Oklahoma University Health Sciences Center		X		X							
The Future of Surgical Training: National Needs Assessment of Stakeholders	AEI2013	Original	yes	yes	Sara	Kim	PhD	ACS AEI Curriculum Committee Study Paper	X			X	X						
The Impact of Stress Factors in Simulation-based Laparoscopic Training"	AEI2009	NA	no	yes	Pamela	Andreatta	EdD, MFA, MA	University of Michigan							X				
The Implementation of a Body Donation Program to Support Surgical Education at an Accredited Education Institute	AEI2014	Descriptive	no	no	Jirina	Trunekova	BS	Lahey Health System											
The Implementation of Surgical Crisis Checklists in Perioperative Team Simulation	AEI2014	Original	no	no	Paul	Huffstutter	MD, FACS	UT Center for Advanced Medical Simulation/UTMCK		X				X	X				
The innovative use of consensus methodology to develop a technical skills evaluation tool.	AEI2010	Descriptive	no	no	Vanessa	Palter	MD	University of Toronto	X		X								
The MASTRI Center	AEI2008	NA	no	no	Adrian	Park	MD	MASTRI					X						
The Missing Link: Integrating the Patient Population with Surgical Education through Web-based Training and In-situ Simulation®	AEI2010	Research Idea	no	no	William	Hamman	MD, PhD	Beaumont Health System	X	X		X	X						
The Process and Content of Biostatistical Consultation within Simulation	AEI2013	Descriptive	no	no	Robert	Heidel	PhD	UT Center for Advanced Medical Simulation/UTMCK		X	X	X	X						
The Rationale for Combining Surgical Simulation and Audiovisual Education: More Repetitions, Less Cost, and Greater Resident Engagement and Satisfaction	AEI2013	Original	no	yes	Yazan	AlJamal	MD	Mayo Clinic Rochester	X	X	X	X							
The Relationship between Intra-operative Teamwork and Quality of Patient Care	AEI2014	Descriptive	no	yes	Roy	Phitayakorn	MD, MEd	MGH				X	X	X	X				
The Relative Contribution of Mixed Training in the Acquisition of Advanced Laparoscopic Skills	AEI2013	Original	no	no	Costas	Loukas	PhD	University of Athens			X								
The Role of Posture Assessment Tools in Identifying Trainees' Postures during Surgical Simulation	AEI2018	Original Paper	yes	no	Christopher	Curry		University of Minnesota/Mayo Clinic		X	X								
The Rule of '4s': A Theory-Driven Approach to Implementing Simulation into Surgical Training	AEI2013	Original	yes	no	Sonal	Arora	MD, PhD	Imperial College London	X	X									
The Successful Integration of a Non-Clinical Skills Curriculum into Surgery Intern Boot Camp	AEI2018	Original Paper	no	no	Veronica	Zoghbi	MD	UPENN		X									
The Surgical Simulation Fellowship Program: Developing International Surgical Leaders in the Art and Sciences of Simulation	AEI2011	Descriptive	no	no	Robert	Sweet	MD, FACS	University of Minnesota/SimPORTAL	X	X		X							
The Tell-Tale Heart and Team Crisis Simulation in an In-Situ Operating Room	AEI2015	Original	no	no	Roy	Phitayakorn	MD, MEd, FACS	MGH		X	X								
The Theoretical Basis for Fabricating High Fidelity Simulation Tools for Honing Complex Surgical Skills	AEI2009	Original	yes	no	Carla	Pugh	MD, PhD, FACS	Northwestern University							X				
The Translation of Simulation-Based Sharps Safety Education to Clinical Surgical Practices	AEI2017	Work in Progress	no	no	Melinda	Klar	RN	UTCAMS		X		X	X						
The Use of a Virtual Reality Trauma Simulation to Teach Team Roles and Communication	AEI2018	Innovative Techniques	yes	no	Amy	Sisley	MD	Banner University Medical Center		X									

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The Use of Simulation Hybrids in Skills Teaching and Assessment	AEI2010	Descriptive	no	no	Katherine	Berg	MD	Thomas Jefferson University	X	X	X							
The Use of Virtual Humans in a Simulated OR for Surgical Education	AEI2018	Innovative Techniques	yes	no	Josue	Menard	MD	University of Florida, Jacksonville	X									
The Use of Virtual Reality Simulators in Laparoscopic Colectomy Training	AEI2017	Original	no	no	Konstantinos	Mavrantonis	MD, PhD, FACS	Hygeia Hospital	X	X		X						
The Utility of Electronic Tablets in ATLS Skills Evaluation	AEI2015	Descriptive	yes	no	Marie	Chotiner	BA	CAMLS			X	X						
Thinking it Through: Correlation of Mental Rehearsal Attitudinal Gains with Performance Parameters on Two Separate Laparoscopic Cholecystectomy Trainers	AEI2013	Original	no	no	John	Paige	MD, FACS	LSUHSC-New Orleans	X	X								
Through the Looking Glass: Comparison of Self-, Peer-, and Observer-based Assessment of Students during Inter-Professional Team Training	AEI2014	Original	no	no	John	Paige	MD, FACS	LSUHSC-New Orleans	X	X	X	X	X					
Time Crunch: Increasing the Efficiency of Technical Surgical Skill Assessment via Brief Video Clips	AEI2017	Original	yes	yes	John	Sawyer	BS	Medical University of South Carolina										
Tissue Morcellation: A Simulation Curriculum for Gynecology Residents	AEI2018	Poster Presentation	yes	no	Stephanie	Delgado	MD	Boston Medical Center	X	X								
Toward "High Stakes" Certification in Central Line Placement: Construct Validation of a Central Line Workshop Performance Metrics	AEI2009	NA	no	no	Yue	Dong		Mayo Clinic Rochester							NA	NA	NA	
Toward the Development of an Observer-Based Tool for Assessing, Debriefing, and Trending Higher-Order Skills During Laparoscopic Surgery	AEI2011	Original	no	no	Charles	Shanley	MD, FACS	Beaumont Health System	X	X	X							
Towards Surgeon-Authored VR Training: the Authoring Interface	AEI2018	Poster Presentation	yes	no	George	Sarosi	MD	University of Florida		X								Surgeon-Authored VR Training
Trainee Impressions of Instructor Expertise in Surgical Simulation and Education	AEI2016	Original	no	no	TK	Pandian	MD, MPH	Mayo Clinic Rochester	X		X	X						
Transfer Effectiveness for a Virtual Reality Laparoscopic Appendectomy Curriculum	AEI2012	Original	yes	no	Amish	Acharya	BSc	Imperial College London	X	X		X						
Transfer of skills between virtual colonoscopy and laparoscopy	AEI2011	Original	yes	no	Lars	Enochsson	MD, PhD	Karolinska University Hospital		X		X						
Trauma Team Performance Training: Development and Pilot of and Interprofessional Monthly Simulation on the Trauma Service	AEI2017	Work in Progress	no	no	Tess	Aulet	MD	University of Vermont	X									
Ultrasound guidance training enhancement using Instrument tracking	AEI2018	Poster Presentation	no	no	Nihar	Sheth		UIC		X								
Understanding Experiential Learning Styles in Residency	AEI2013	Original	no	no	Jason	Zigmont	PhD	OhioHealth		X	X							
Unified Field Theory of Health Care Simulation	AEI2017	Descriptive	no	no	David	Hananel	BS	UW-CREST										
University of Minnesota PeriOperative Resource for Training and Learning (SimPORTAL)	AEI2008	NA	no	no	Robert	Sweet	MD, FACS	University of Minnesota/SimPORTAL		X								
Update on the Progress to Establish National and International Collaboration on Curriculum Development - The ASSET and FRS Experience	AEI2012	Descriptive	no	no	Richard	Satava, Jr.	MD, FACS	University of Washington/ISIS	X			X						

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Utilization of the Human-Worn Partial Task Surgical Simulator in Extreme environmental terrain and weather conditions.	AEI2013	Original	no	no	Robert	Rush	MD	Madigan Army Medical Center	X	X	X	X	X						
Use of a Colonoscopy Simulator to Improve the Learning Curve for General Surgery Residents	AEI2009	NA	no	no	Raphael	El Youssef	MBBS	VirtuOHSU										X	
Use of a Novel Thermal and Visual Facial Mapping System to Measure Stress in Surgeons May Provide a Valuable Metric in Surgical Skills Acquisition	AEI2009	NA	no	no	Rohan	Joseph		MITIE								X			
Use of decision based simulation to explore shared mental models in the operating room	AEI2011	Original	no	no	Carla	Pugh	MD, PhD	Northwestern University			X		X						
Use of Error Analysis to Assess Resident Performance	AEI2014	Original	no	yes	Anne-Lise	Maag	MD	University of Wisconsin		X	X								
Use of Innovative Approaches to Create a Specialty Specific Urology Skills Program	AEI2018	Poster Presentation	yes	no	Barbara	Lewis	MS, RN	University of Wisconsin	X										Innovative Techniques
Using 3-D Anatomy Models Facilitates Cross-sectional Radiological Anatomy Learning for Surgery Residents: a randomized controlled crossover trial	AEI2017	Work in Progress	no	no	Francisco	Cardenas	MD	Mayo Clinic Rochester	X	X	X								
Using a 24/7 Audiovisual System to Create a Dynamic Surgical Curriculum and Assess Learners for Competency	AEI2009	Work in Progress	no	no	David	Farley	MD, FACS	Mayo Clinic Rochester								X			
Using a Many-Facet Rasch Measurement Approach for Validation of Central Venous Catheter Tool Used in Verification of Proficiency Examination	AEI2012	Original	yes	no	Deborah	Rooney	PhD	Northwestern University	X	X	X								
Using Deliberate Practice to Train Higher-Order Skills in Laparoscopic Surgery	AEI2010	Work in Progress	yes	no	Jeffrey	Beaubien	PhD	Beaumont Health System	X	X	X		X	X					
Using Epistemic Network Analysis to Identify Targets for Educational Interventions in Trauma Team Communication	AEI2017	Original	no	yes	Sarah	Sullivan	PhD	University of Wisconsin			X								
Using Heart Rate Variability to Assess Acute Stress During Simulated Trauma Resuscitation	AEI2016	Original	no	no	Shabnam	Hafiz	MD, MPH	Medstar/SiTEL											
Using Video Motion Analysis to Quantify Technical Performance	AEI2013	Original	yes	yes	Carly	Glarner	MD	University of Wisconsin	X		X			X					
Utilization of Operating Room Simulation to Enhance Surgical Resident Participation in the Surgical Timeout Checklists	AEI2013	Original	no	no	Edward	Dominguez	MD	Riverside Surgical Associates	X	X	X		X						
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	AEI2011	Work in Progress	no	no	Noaman	Ali	MD	Beaumont Health System	X	X	X		X						
Utilizing Brain Stimulation to Enhance Laparoscopic Technical Skills Training: A Randomized Controlled Trial	AEI2018	Innovative Techniques	yes	no	Morgan	Cox	MD, MHS	Duke University		X									
Validation and A New Pump for the "Live Cadaver" Exercise for Improving Trauma Team Training	AEI2016	Original	no	no	Richard	Pearl	MD, FACS, FRCS	UIC											

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Validation of a Low-cost Ultrasound Compatible Suprapubic Catheter Insertion Training Model	AEI2018	Poster Presentation	no	no	Yuding	Wang	MD	McMaster University		X									
Validation of a Novel Assessment Tool for Central Venous Catheterization	AEI2011	Original	no	no	Andrew	Wright	MD, FACS	University of Washington/ISIS	X	X	X	X	X						
Validity of Leak Pressure Testing for Bowel Anastomosis Quality	AEI2009	NA	no	no	Aaron	Jensen	MD	University of Washington/ISIS							X				
Value-based Simulator Selection: The Creation and Evaluation of the Simulator Value Index Tool	AEI2017	Original	yes	yes	Deborah	Rooney	PhD	University of Michigan											
Variations in Procedure Time Based on PGY Level of General Surgery Residents	AEI2012	Descriptive	yes	no	Jeremy	Johnson	MD	University of Oklahoma	X	X	X	X		X					
Video Analysis of Path Length in Basic Skills Training: A Way to Expand the Value and Use of Basic Skills BlackBox Training?	AEI2016	Original	yes	no	Lars	Enochsson	MD, PhD	Karolinska University Hospital			X	X							
Video Skills Curricula and Simulation: A Synergistic Way to Teach Two-Layered Handsewn Small Bowel Anastomosis	AEI2014	Original	no	no	Phillip	Rowse	MD	Mayo Clinic Rochester	X	X	X								
Video Training Works for Professional Sports, Might it be Effective in Training Resident Eyes and Minds for the OR?	AEI2018	Poster Presentation	no	no	Nicholas	Prabhakar	BA	Mayo Clinic Rochester			X								
What Errors Do Surgical Residents Commonly Commit?	AEI2018	Original Paper	yes	no	Tomoko	Mizota	MD	Indiana University School of Medicine											Needs Assessment
What would be the Role of Haptics if Incorporated in Robotic Surgery?	AEI2015	Original	no	no	Cristian	Luciano	PhD	UIC	X	X	X			X					
When Do Physicians Learn Invasive Clinical Skills?	AEI2010	Original	no	no	Katherine	Berg	MD	Thomas Jefferson University			X	X							
Who is the Ideal Partner for the Interdisciplinary Training of Surgery Residents?	AEI2014	Original	no	no	Dimitrios	Stefanidis	MD, PhD, FACS, FASMBS	Carolinas Healthcare System	X	X	X	X	X						
Will eye tracking video feedback enhance simulator performance?	AEI2018	Poster Presentation	yes	no	Markus	Castegren	MD, PhD	Karolinska University Hospital		X									
Workshop Using Standardized Patients to Evaluate the Communication Skills of Surgical Residents	AEI2009	NA	no	no	Sender	Lieberman		McGill University								X			
Worth a thousand words: Google Glass in surgery	AEI2014	Descriptive	no	no	Gabriel	Wallace	MD	University of Washington/ISIS		X				X	X				
YouTube Video + Simulation = Master TEP Hernia Surgeon?	AEI2010	Work in Progress	no	no	Benjamin	Zendejas		Mayo Clinic Rochester	X	X		X							
3-D Anatomy Models Facilitates Cross-sectional Radiological Learning for Surgery Residents: a randomized controlled crossover trial	AEI2019	Poster Presentation	yes	no	Francisco	Cardenas Lara	MD	Mayo Clinic Rochester		X									
A Laboratory Model for Ureteroneocystotomy	AEI2019	Poster Presentation	no	no	Patrick	McKenna	MD, FACS, FAAP	University of Wisconsin	X										
A prospective, Randomised, Controlled Trial assessing the rate of decay of virtual reality colonoscopy (psychomotor) skill	AEI2019	Poster Presentation	yes	no	Yash	Verma	MBBS/Bsc	Queen Elizabeth Hospital, Birmingham	X		X								Rate of decay of psychomotor skill (by extension surgical skill) using VR colonoscopy simulator.
A Review of Checklist Tools for the Assessment of Central Venous Catheter Insertion: Are We Using Best Practices?	AEI2019	Poster Presentation	no	no	John	Nguyen-Lee	MD	Houston Methodist Hospital			X			X					

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Analysis of General Surgery Intern Performance on Simulation-Based Anatomy Examinations	AEI2019	Poster Presentation	no	no	Abhishek	Chandra	B.A.	Mayo Clinic Rochester	X	X	X								
Attitude Adjustment? Impact of Simulation-based, High-fidelity Inter-Professional Team Training on Senior Medical Students' Short-Term Teamwork Attitudes	AEI2019	Poster Presentation	no	no	Laura	Bonanno	PhDc, DNP, CRNA	LSU Health New Orleans				X							Curriculum implementation
Automated Assessment of Surgical Knot Tying	AEI2019	Original Paper	no	no	Elizabeth	Huffman	MD	Indiana University			X								
Comparing reverse half-hitch alternating post surgical knots and square knots for closure of enterotomy in a simulated deep body cavity: A Randomized Controlled Trial.	AEI2019	Original Paper	yes	no	Edward	Sykes	PhD	Queen's University, School of Medicine		X									
Development and Evaluation of a Low-Cost Laparoscopic Cholecystectomy Simulation Model	AEI2019	Poster Presentation	no	no	Rafael	Azevedo	MD	Mayo Clinic Rochester	X	X									
Development and Evaluation of a Low-Cost Sentinel Lymph Node Model for Axillary Dissection and Biopsy	AEI2019	Innovative Techniques	no	no	Courtney	Backstrom	BS	Mayo Clinic Rochester		X									
Development of a Breast Abscess Management Curriculum	AEI2019	Innovative Techniques	no	no	Amanda	Phares	MD	University of California, Davis	X										
Development of a Laparoscopic Trocar Placement Simulation Model: A Preliminary Evaluation	AEI2019	Poster Presentation	no	no	Edward	Walczak	BS	University of Minnesota Medical School	X										Simulation Model
Development of a Tendon Repair Simulation Model: A Preliminary Evaluation	AEI2019	Poster Presentation	yes	no	Jillian	Schommer	BS	University of Minnesota Medical School		X									
Does Variability Among Surgical Skills Diminish Throughout Residency Training? Analysis of a 5-Task Surgical Simulation Curriculum Starting Day 1.	AEI2019	Poster Presentation	yes	yes	Jessica	Limberg	MD	NYP-Weill Cornell Medical Center	X	X	X								
Expansion of Surgical Simulation Through the Development of Economic Laparoscopic Simulators and Student-run Organizations	AEI2019	Original Paper	yes	no	Jordan	Baechle	BS	Meharry Medical College	X	X									
Experienced Surgeons Versus Novice Residents: Validating a Novel Knot Tying Simulator for Vessel Ligation	AEI2019	Poster Presentation	yes	yes	Roi	Anteby	BS	Tel Aviv University											Validation of a novel simulator
Feasibility of a Simulation-Based Elective in Robotic and Minimally Invasive Surgery for Medical Students	AEI2019	Poster Presentation	no	no	Sophia	Roberts	BS	The Ohio State University Medical Center	X										
Grouped-based Video Feedback is as Effective and More Efficient than Personalized Video Feedback for Enhancing Skills of Surgical Interns	AEI2019	Original Paper	no	no	Yazan	AlJamal	MD	Mayo Clinic Rochester	X		X								
How Well do Dynamic Models of Teamwork in Surgical Simulations Reflect those of Live Patient Encounters?	AEI2019	Poster Presentation	yes	no	Ronald	Stevens	PhD	UCLA School of Medicine / The Learning C											Surgical Research
Implementation of the Structured Training for Endovascular Techniques (STENT) Curriculum	AEI2019	Poster Presentation	no	no	Morgan	Cox	MD, MHS	Duke University	X										
International Collaboration through Simulation in the Health Sciences	AEI2019	Poster Presentation	yes	no	Erik	Norbie	BA	University of Minnesota											Using simulation for international collaboration



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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)

Abstract Title	Abstract Year	Type of Abstract	Multi-Institutional Study	Manuscript Published in Surgery	First Name	Last Name	Credentials	Institute	Categories of Research										
									Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Patient Safety	Surgical Outcomes	Investigation	Education	In-Development	Other	
Introducing Tattoos to Advanced Trauma Life Support (ATLS): A Process Improvement Initiative	AEI2019	Poster Presentation	no	no	Luis	Llerena	MD, FACS	CENTER FOR ADVANCED MEDICAL LEARNING AND				X							
Knot-tying Struggles for Surgical Interns: Bare Hands vs. Gloves vs. Gloves with Butter	AEI2019	Original Paper	no	no	Nizamuddin	Shaikh	MBBS	Mayo Clinic Rochester	X	X	X								
Laparoscopic Port Placement Concepts; It's All About Fundamentals	AEI2019	Poster Presentation	yes	no	Nimesh	Naik	MD	Mayo Clinic Rochester		X									
Medical Student Perception and Confidence in Informed Consent, A Core EPA	AEI2019	Original Paper	no	yes	Tiffany	Anderson	MD	Stanford University	X										
Multiuse low-cost hematemesis mannequin	AEI2019	Poster Presentation	no	no	Jorge	Lara-Gutierrez	MD	VA Pittsburgh Healthcare System											Innovation.
Proficiency Based Training Program For Performing Complex Gastrointestinal Surgery – How And Why To Learn The Robotic-Assisted Laparoscopic Gastric Bypass In The Military	AEI2019	Original Paper	no	no	Gordon	Wisbach	MD, MBA	Naval Medical Center San Diego		X									
Reconstruction of Marginal Mandibular Defects Utilizing Bone Marrow Aspirate Concentrate from the Anterior Iliac Crest: A Less Morbid Osteogenic Option	AEI2019	Poster Presentation	no	no	Shachika	Khanna	BDS, DMD	Thomas Jefferson University Hospital							X				
Residency preparatory courses effectively prepare graduating medical students for surgical internship	AEI2019	Poster Presentation	no	no	John	Martin		Indiana University				X							
Resident Opinions of the Value and Optimal Content of a Technical Skills Curriculum using Simulation	AEI2019	Poster Presentation	no	no	Robert	Naples	DO	Cleveland Clinic	X										
Simulation Training for Endoscopic Management of Upper Gastrointestinal Bleeding: A Nationwide Survey of Rural Surgeons' Needs and Preferences Analysis	AEI2019	Original Paper	yes	no	Shawn	Purnell	MD	Houston Methodist Hospital & University of Utah		X									
Surgical Games: A Simulation-Based Structured Assessment of Orthopaedic Surgery Resident Technical Skill	AEI2019	Original Paper	no	no	Jason	Blevins	MD	Hospital for Special Surgery	X		X								Surgical skills assessment and simulator training
Teaching Burn Management Using a Low Cost Escharotomy Trainer	AEI2019	Innovative Techniques	no	no	Asit	Misra	MD	OhioHealth Learning		X									Low cost simulator development
The Effects of Team Training Utilizing Simulation and Mindfulness on Colleague Engagement and Patient Satisfaction in the Healthcare Setting	AEI2019	Innovative Techniques	no	no	Darlene	Bourgeois	EdD(c), MSN, RN	Lahey Hospital & Medical Center											Patient satisfaction and colleague engagement
The Use of Virtual Humans to Assess Surgeon Communication Skills in a Simulated Laparotomy.	AEI2019	Original Paper	no	no	David	Lind	MD	University of Florida - Jacksonville						X					
Training Multidisciplinary Teams in Nontechnical Skills and OR Safety Using Simulation Based Training	AEI2019	Poster Presentation	no	no	Katherine	Jackson	MD	University of Rochester Medical Center	X	X				X					
Use of a Low Cost Task Trainer for Emergency Department Thoracotomy Training in a General Surgery Residency Program.	AEI2019	Innovative Techniques	no	no	Asit	Misra	MD	OhioHealth Learning		X	X								Simulator Development
Use of Mock Oral Boards as an Assessment Tool in Simulation Based Burn Management Training.	AEI2019	Poster Presentation	no	no	Asit	Misra	MD	OhioHealth Learning		X	X								

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									Curriculum Development	Teaching Methods	Learner Evaluations	Program Evaluations	Patient Safety	Surgical Outcomes	Investigation	Education	In-Development	Other
Use of Sensors to Quantify Procedural Idle Time: Validity Evidence for a New Mastery Metric	AEI2019	Original Paper	yes	yes	Kenneth	Perrone	MD	Stanford University			X							
Using a Simulation Based Curriculum to Teach General Surgeons Obstetric & Gynecological Skills	AEI2019	Poster Presentation	no	no	Donald	Delorey	PHD	Naval Medical Center Portsmouth	X									
Using Causal Models in Psychomotor Performance Assessment	AEI2019	Original Paper	no	no	Alex	Otto	BA	University of Minnesota Medical School	X	X	X							
Validation of a Novel Needle Holder to Train Advanced Laparoscopy Skills to Novices in a Simulator Environment.	AEI2019	Poster Presentation	yes	no	Ninos	Oussi	MD	Karolinska University Hospital Sweden						X				
What should we teach in a general surgery simulation curriculum? A faculty and resident needs assessment	AEI2019	Poster Presentation	yes	no	Karen	Dickinson	MBBS, MSc, MD, FRCS	MITIE	X									