

**Steven D. Schwaitzberg, MD FACS**  
**Professor (tenure) and Chairman**  
**Department of Surgery**  
**Professor of Biomedical Informatics**  
**School of Medicine & Biomedical Sciences**  
**University at Buffalo**

(September 26, 2021)

Work Address:  
Department of Surgery  
Buffalo General Hospital  
D-352  
Buffalo, NY 14602

Home Address:  
35Hallam Rd  
Buffalo, NY 14216

Telephone Number: 617-947-3668

**Education:**

**M.D.** in Medicine Baylor College of Medicine 1980

**M.A.** (Honorary) in Science 2014  
Harvard Medical School

**B.A.** in Biology 1977  
The Johns Hopkins University

**Traineeships:**

Chief of Service (Leadership Program in Health Policy & Management) 2010  
Brandeis at The Heller School for Policy and Management (ACS Scholar)  
Chief of Service (Harvard Chiefs of Service Course) 2006  
Harvard School of Public Health

Trauma Fellow (Pediatric Trauma) 1986-1987

Pediatric Trauma Institute at the Floating Hospital for Children  
Resident (General Surgery) 1981-1986  
Baylor Affiliated Hospitals

Research Associate (Infectious Disease) 1980-1981  
Baylor College of Medicine

**Boards & Certifications:**

1986 Massachusetts Medical License

1987 American Board of Surgery (Recertified 1995, 2007, 2018)

1988 American Board of Surgery, Critical Care (Recertified 1996)

**Professional Appointments:**

ACADEMIC:

2016 Professor of Biomedical Informatics (vol)  
Jacobs School of Medicine and Biomedical Sciences Buffalo, NY  
Director, UB RIS<sup>2</sup>E<sup>2</sup> for *Research Innovation Structure Simulation Engineering Education*

2015 – Professor (tenure 2016) and Chair of Surgery  
Jacobs School of Medicine and Biomedical Sciences Buffalo, NY

2014-2017 Professor  
Department of Surgery, Harvard Medical School  
Boston, MA

2011-2015 Associate Professor (Adjunct – non voting)  
Bouve College of Health Sciences, Northeastern University, Boston, MA

2011-2014 Associate Professor (Adjunct – non voting)  
Department of Engineering, Tufts University School of Medicine, Boston, MA

2009-2014 Associate Professor  
Department of Surgery, Harvard Medical School, Boston, MA

2005-2008 Visiting Associate Professor  
Department of Surgery, Harvard Medical School, Boston, MA

2004-2007 Associate Professor (Adjunct – non voting)  
Department of Engineering, Tufts University School of Medicine, Boston, MA

1994-2005 Associate Professor  
Department of Otolaryngology, Head, & Neck Surgery, Tufts University School of  
Medicine, Boston, MA

1994-2005 Associate Professor  
Department of Surgery, Tufts University School of Medicine, Boston, MA

1987-1993 Assistant Professor  
Department of Surgery, Tufts University School of Medicine, Boston, MA

1986-1987 Instructor  
Department of Surgery, Tufts University School of Medicine, Boston, MA

1985-1986 Instructor  
Department of Surgery, Baylor College of Medicine, Houston, TX

ADMINISTRATIVE:

2005- Surgeon  
Cambridge Health Alliance, Cambridge, MA

1990-1991 Surgeon  
365<sup>th</sup> Evacuation Hospital, US Military Medical Complex, Seeb, Oman

1987-2005 Surgeon  
New England Medical Center, Boston, MA

1987-1990 Surgeon  
Lemuel Shattuck Hospital, Jamaica Plain, MA

1986-1987 Assistant in Surgery  
New England Medical Center, Boston, MA

OTHER PROFESSIONAL:

2011, Associate Examiner  
2018-2021 American Board of Surgery Certifying Exam

2011-2017 Special Government Employee (Executive Branch) Consultant  
 Food and Drug Administration (FDA), Urology/Gastroenterology Advisory Panel (CDRH),  
 2017 - Panel Chairman  
 Food and Drug Administration (FDA), Urology/Gastroenterology Advisory Panel (CDRH)

2007-15 Scientific Advisory Panel  
 SurgiQuest

2004-14 Scientific Advisory Panel  
 Cambridge Endoscopic Devices

Ongoing Activ Surgical, NuView Surgical , HIA technologies, Acuity Bio, Arch Therapeutics, Human  
 Extensions, Gordian Medical, Levitra Therapeutics

2015 – President – University at Buffalo Surgeons Inc (USI) d/b/a UBMD Surgery

2020 - Board of Governors Academic Group – (Academic Health Professionals Insurance  
 Association, Academic Medical Professionals Insurance RRG, LLC, AHPIA Solutions, Inc)

**Awards & Honors:**

1977 B.A. General Honors  
 Phi Beta Kappa  
 The Johns Hopkins University

1985 Outstanding Emergency Physician Recognition Award  
 Emergency Nurse Association of Texas

1992, 1999 Teaching Award  
 Chief of Residents in Surgery, New England Medical Center  
 Chief Surgical Resident Teaching Award  
 Tufts University School of Medicine

1995-2005 Third Year Surgical Student Recognition Award  
 Tufts University School of Medicine

1995, Citation for Teaching Excellence  
 1999-2000, Tufts University School of Medicine  
 2002-2005

1996 Second Place – Small Business Innovative Research Development Microwave Blood  
 Warming  
 Massachusetts Technology Council

1999-2006 Oliver Smith Award for Excellence, Compassion, and Service  
 New England Medical Center

2001 Honorable Mention – Medical Fiction Writing for Physicians  
 SEAK, Inc.

2003 Boston area’s Top Physicians  
 Boston’s *Consumer Checkbook Magazine*

2003-2005 Best Doctors in America  
 Best Doctors, Inc.

2003 21<sup>st</sup> Century Laureate Achievement Award – Teaching Digital Video to Surgeons  
 Computerworld/National Smithsonian Honors

2005-2020 Named to Best Doctors in Surgery  
BestDoctors.com

2006-2009 Physician Commendation  
Patients of Cambridge Health Alliance

2008 Who's Who  
Who's Who Global Directory

2009 Leading Expert in Laparoscopy Patient's Choice Award  
Castle Connolly Top Doctors in Massachusetts

2010 2010 Health Policy Scholar  
American College of Surgeons

2010 Who's Who  
Cambridge Who's Who Among Executives and Professionals in the Field of Research,  
Medicine, and Healthcare

2011 Patient's Choice Award  
PatientsChoice.org

2013 America's Most Compassionate Doctors  
Boston's Super Doctors  
Vitals.org

2015 Top Doctors

2016 Distinguished Service Award  
Society of American Gastrointestinal and Endoscopic Surgeons  
Top Doctors in Buffalo

2017 International honorary membership in the Japanese Society for Endoscopic Surgery  
Top Doctors

2018 Top Doctors in Buffalo  
Buffalo Business First - Excellence in Health Care

**Professional Society Memberships:**

1988-2003 Eastern Association for Surgery of Trauma (EAST)  
1993-1994 Publications Committee

1989- Society of American Gastrointestinal Endoscopic Surgeons (SAGES)  
1998-2001 Chairman, Technology Committee  
1998-2004 Fundamentals of Laparoscopy Surgery Committee  
2000-2007 Chairman, Development Committee  
2000 Chairman, Learning Center  
2001, 2003-2008 Postgraduate Course Director  
2002-2004 Board of Governors  
2004-2006 Second Vice President  
2005-2010 Chairman, Program Committee  
2007 Program Chair for Annual Meeting  
2008- CO-chair NOSCAR research committee  
2007-2010 First Vice President  
2010-2011 President-Elect  
2011-2012 President  
2012-2013 Immediate Past President  
2012-- Nominating Committee (Chair 2012)  
Awards Committee  
SAGES representative to American College of Surgeons BOG

SAGES rep to Am. Gastroenterology Association CGIT committee  
2012 –17 Chairman Fundamentals of Laparoscopic Surgery Committee  
2017- Chairman Learning Management System group (OWLS)

1990- Fellow of the American College of Surgeons (ACS)  
2005-2011 Committee on Emerging Surgical Technology and Education (CESTE)  
2006-2012 Informatics Committee  
2007-2012 Video Based Education Committee  
2008-2012 Video-based Education Executive Committee  
2012- Consultant to Video-based Education Executive Committee  
2013-2019 Board of Governors  
Board of Governors Advocacy and Health Policy Pillar: Coalition Workgroup  
2020- Special Sub Committee of The Master Educators of the ACS

1990- Massachusetts Medical Society  
1992- Society of Critical Care Medicine  
1994-1997 Chairman, Multi-institutional Trial (Surgery)  
1993- Association for Academic Surgery  
1995- DeBaKey International Surgical Society  
1997- Surgical Infection Society  
1998- Deterling Surgical Society  
2001- New England Surgical Society  
2005- Boston Surgical Society  
2010 Councilor  
2012 Dinner Chairman  
2009- Society for Surgery on the Alimentary Tract (SSAT)  
2011 Health Policy Committee  
2013- American Surgical Association  
2015 Society of Surgical Chairs  
2017 Japanese Society for Endoscopic Surgery (honorary)

**Invited Presentations:**

LOCAL INVITED PRESENTATIONS:

No presentations below were sponsored by outside entities.

2005- Technology of Minimally Invasive Surgery  
Cambridge Hospital, Cambridge, MA  
2010 Perils and Pitfalls of Minimally Invasive Surgery  
Massachusetts General Hospital, Boston, MA  
2010 Complications of Minimally Invasive Surgery  
Mt. Auburn Hospital, Cambridge, MA  
2012 Longitudinal Clerkships – Surgical experience  
Harvard Medical School, Boston, MA  
2012 Surgery in the Shifting Sands  
Brigham and Women’s Hospital, Boston, MA  
2013 Current Management of Esophageal Reflux  
Mount Auburn Hospital, Cambridge, MA  
2013 Complication of MIS  
Beth Israel Deaconess Medical Center, Boston, MA

- 2013 The Simulation Collaborative – IDEAS Conference  
Beth Israel Deaconess Medical Center, Boston, MA
- 2017 UB RISE Simulation Series

REGIONAL INVITED PRESENTATIONS:

No presentations below were sponsored by outside entities.

- 1987-2005 Grand Rounds/Various Topics  
New England Baptist Hospital, Boston, MA  
Newton Wellesley Hospital, Newton, MA  
University of Massachusetts Memorial Hospital Worcester, MA  
St. Vincent’s Hospital, Worcester, MA  
Maine Medical Center, Portland, ME  
Union Memorial Hospital Lynn, MA  
Roger Williams Hospital, Providence, RI  
South Shore Medical Center, Weymouth, MA  
St. Elizabeth’s Medical Center, Brighton, MA  
Salem Hospital, Salem, MA  
Baystate Medical Center, Springfield, MA
- 2004 Why some Technologies Make it and Others Do Not  
New England Technology Council, Newton, MA
- 2005 The Good, the Bad, and the Ugly of Minimally Invasive Surgery Technology  
Boston Surgical Society, Boston, MA
- 2005 Workshop in Operating Room Technology/Lecture  
Association of Operating Room Nurses, Boston, MA
- 2007 Treatment of GE Reflux/Lecture  
Medicare Regional Contractor Advisory Committee, Boston, MA
- 2010 Complications of Minimally Invasive Surgery  
St. Vincent’s Medical Center, Worcester, MA
- 2013 Complication of MIS  
Tufts Medical Center, Boston, MA
- 2013 Medical training in a Virtual Multicultural World  
IBM and University of Massachusetts Boston, Boston, MA  
Surgery in the New World Order
- 2018 Upstate Medical Center

NATIONAL INVITED PRESENTATIONS:

No presentations below were sponsored by outside entities.

- 1984 Where Should All the Trauma Go?/Keynote address  
Emergency Nurse Association, Houston, TX
- 1999 The Relationship of Adhesions to General Surgery  
4th International Conference on Peritoneal Healing and Adhesion Prevention, Fort  
Lauderdale, FL
- 2001 Surgeon in the Digital Age/Lecture  
Society of American Gastrointestinal Endoscopic Surgeons, St. Louis, MO
- 2002 Innovation in Minimally Invasive Surgery/Lecture  
American College of Surgeons Spring Meeting, San Diego, CA

2002 Pharmacologic Strategies to Reduce Perioperative Complications/Lecture  
Society of American Gastrointestinal Endoscopic Surgeons, St Louis, MO

2004 OR of the Future/Lecture  
World Research Group, Orlando, FL

2004 The Future of Technology in Surgery/Keynote address  
International Pediatric Endoscopy Group, Maui, HI

2005 Barriers to Radiofrequency ID Adoption in Medicine/Lecture  
World Research Group, Las Vegas, NV

2005 The Fate of the OR of the Future/Lecture  
World Research Group Technology Conference, Phoenix, AZ

2005 Visiting Professorship  
University of Texas, San Antonio, TX; May

2008 I invented this in my garage; do I really need to call the IRB? Device Development: From  
Concepts to Cash/Postgraduate Course  
Society of American Gastrointestinal Endoscopic Surgeons , Philadelphia, PA

2008 If they ask me, what should I tell my hospital about EMR implementation for surgeons?  
EMR for Surgeons Post Graduate Course  
American Colleges of Surgeon, San Francisco, CA

2009 Minor Ductal Injuries are Not so Minor. Patient Safety in Biliary Surgery/Postgraduate  
Course  
Society of American Gastrointestinal Endoscopic Surgeons, Phoenix, AZ

2009 Controversies in Gastrointestinal Surgery. Natural Orifice Transluminal Endoscopic  
Surgery versus Single Port Access  
Digestive Disease Week, Chicago, IL

2009 Barriers to Reimbursement  
*In*, NOTES Masters in Surgery Conference, Kennebunkport, ME

2009 Avoiding Complications in MIS/The William D. Seybold, MD Lectureship in Surgery  
University of Texas Southwestern Medical Center, Dallas, TX

2010 From Tack to TEPS: the Perils and Pitfalls of Minimally Invasive Surgery/Visiting  
Professor  
Lenox Hill Hospital, New York, NY

2010 Minimizing MIS Complication in the OR/Annual Review Course in General Surgery  
Washington University, St. Louis, MO

2010 The Smart Image in the Operating Room  
6th Innovations in the Surgical Environment Conference, Annapolis, MD

2010 Adrenal Incidentaloma  
MIS and Cancer Endocrine/Solid Organ Postgraduate Course SAGES Annual Meeting  
Washington, DC

2010 Are There Better Ways to Teach Surgeons?  
15<sup>th</sup> Anniversary of the IBM Innovation Center – Health Care Panel, Waltham, MA

2011 Current Work towards Clinical Competence and Potential Roadmap  
TATRC's Continuing Clinical Competence / Skills Deterioration Symposium, Newport  
Beach, CA

2011 Putting Independence Back into Surgical Training  
Association of Program Directors in Surgery, Boston, MA

2011 Managing Surgeons in the Modern World: New Expectations  
2nd Annual Women's' Careers in Surgery, Clearwater, FL

2011 Techniques in Laparoscopic Hernia Repair

- 2011 Society of American Gastrointestinal Endoscopic Surgeons, San Antonio, TX  
Introducing New Technology into the Operating Room
- 2011 Society of American Gastrointestinal Endoscopic Surgeons, San Antonio, TX  
What are the Significant Barriers to NOTES Adoption?  
National Institute of Biomedical Imaging & Bioengineering at the National Institutes of Health, Bethesda, MD
- 2011 Keynote Address: MIS from 30,000 feet – What can We expect  
12<sup>th</sup> Annual MIS Fellows Course, Sedona, CA
- 2011 Meet the Experts: Creating High Quality Video for the Operating Room  
American College of Surgeons, San Francisco, CA
- 2012 Surgical Competency  
Masters in Endoscopy Conference, Orlando, FL
- 2012 SAGES Presidential Address: You Must be the Change You Wish to See in the World  
SAGES, San Diego, CA
- 2012 Managing Surgeons in the Modern World: What do Women Bring to the Table? 3rd  
Annual Women's' Careers in Surgery, Baltimore, MD
- 2012 Regulatory Challenges in Natural Orifice Surgery 7th International NOTES® Summit,  
Chicago, IL
- 2012 Surgeon Leaders in 2012 and Beyond  
13<sup>th</sup> Annual MIS Fellows Course, Sedona, CA
- 2012 Surgery in the New World Order  
Visiting Professor - Stony Brook University, Stony Brook, NY
- 2012 The Evolution of 3D imaging in Minimally invasive Surgery  
American College of Surgeons Clinical Congress, Chicago, IL
- 2012 FUSE : A National Curriculum in Surgical Energy  
American College of Surgeons Clinical Congress, Chicago, IL
- 2012 Teaching Surgery and the Quest for the Universal Translator  
TED.x Beacon Street, Boston, MA / TED.com
- 2013 What Will Surgery Be Like in the Future  
Visiting Professor - Inova Fairfax Hospital System, Falls Church, VA
- 2013 Keynote Address Driving Technology Towards Unmet Needs Man Meeting Virtual  
Reality (MMVR)/NextMed, San Diego, CA
- 2013 The Role of Specialty Societies in Surgical Transformation  
Procedural Re-tooling for Surgeons in Practice: Incentives, Pressures, Technology.  
Conference Sponsored by Methodist Hospital, Houston, TX
- 2013 The Stretta procedure: What's the real data?  
SAGES Annual Meeting, Baltimore, MD
- 2013 Is it Time to Play Taps for Single Port Surgery?  
SAGES' Presidential Debate, Baltimore, MD  
Surgery in the New World Order – the shifting Sands  
4<sup>th</sup> Annual Women's' Careers in Surgery, San Francisco, CA
- 2014 Legal aspects and HIPAA requirements when recording surgical procedures  
SAGES Annual Meeting Salt Lake City, UT
- 2014 The Pitfalls and Dangers of MIS  
Visiting Professor - Rush University, Chicago, IL
- 2015 Prospective Randomized Trial of NOTES versus Laparoscopic Cholecystectomy  
SAGES Scientific Session Plenary Presentation, Nashville, TN  
Visiting Professor – Masters of Surgery Montefiore Hospital- Einstein Medical School



- 2016 Visiting Professor University of Colorado – Schultz Lecture
- 2017 Advances and white light imaging in surgery  
American College of Surgeons Clinical Congress San Diego California  
Debating the value of augmented reality in surgery - the pro  
American College of Surgeons Virtual Grant Rounds. Accredited Educational Institutes  
Via teleconference)  
SAGES-SSAT Joint Panel: ethical and medical legal ethical and medical legal  
considerations of incidental surgical findings Houston, TX
- 2018 Visiting Professor - University of California San Diego - Future of Surgery
- 2019 Graduation Keynote Speaker University of Kentucky – In the Words of Yogi Berra.....  
Visiting Professor – Baystate Medical Center - The Surgeon as an Innovator  
Churchill Lecture. American College of Surgeons San, Francisco California
- 2020 Visiting Professor ( Virtual) Hypercalcemia University of Oklahoma ( Tulsa)

INTERNATIONAL INVITED PRESENTATIONS:

No presentations below were sponsored by outside entities.

- 1996 Techniques in Minimally Invasive Surgery/Visiting Professorship  
Hospital, Santos, Brazil; Albert Einstein Hospital, Sao Paolo, Brazil
- 2007 Differences in Minimally Invasive Management of Gastric Cancer  
Japanese Society for Endoscopic Surgery, Sendai, Japan
- 2008 Endolumenal Treatment of Gastrointestinal Reflux  
Latin American Society of Endoscopic Surgery (ALACE), Guatemala City, Guatemala
- 2008 Will Infection Be a Barrier to NOTES Adoption?  
World Congress of Endoscopic Surgery, Yokohama, Japan
- 2009 Is there any hope for endolumenal treatment of gastroesophageal reflux?  
Japanese Society of Endoscopic Surgeons, Tokyo, Japan
- 2010 MIS Complications to Patients and Surgeons  
Skubiszewski Medical University of Lublin, Lublin, Poland
- 2010 Complications of Minimally Invasive Surgery  
2010 Sobracil Congress, Salvador, Brazil
- 2011 The Story of FLS (Fundamentals of Laparoscopic Surgery) and its Impact on Surgical  
Education in the United States - Safety issues in electrosurgery  
2011 Chinese Medical Association/Chinese Society of Surgery, Beijing, China
- 2011 Minimally Invasive Parathyroidectomy  
2011 Colombian Surgery Association XXXVII Congress, Bogotá, Columbia
- 2011 How to Minimize Complication in MIS  
Canadian Association of General Surgeons, London, Ontario, Canada
- 2012 Surgical Competency and Skills  
Grand Rounds King Fahad Medical City, Riyadh, Saudi Arabia
- 2012 Resection of Mediastinal Parathyroid  
Reduction of Electrical Complications in Minimally Invasive Surgery  
XIII World Congress of Endoscopic Surgery, Puerto Vallarta, Mexico
- 2012 Difficult Situations in Suturing and Stapling  
Informed Consents and IRB approval in NOTES guidelines and legal problems  
European Association of Endoscopic Surgery, Brussels, Belgium
- 2012 Virtual Realty Simulation in Surgery  
Khoo Teck Puat Hospital, Singapore

- 2014 Keynote Address: Preventing Complications in MIS  
Endoscopic and Laparoscopic Surgeons of Asia (ELSA), Riyadh, Saudi Arabia
- 2014 The Evolution and Current Status of Flexible Endoscopic Training in Surgery in the  
United States  
Canadian Association of General Surgeons (CAGS) Winter Meetings, Toronto, Canada
- 2014 Why the NOTES hype did not change much between gastroenterologist and surgeons  
European Society for Endoscopic Surgery, Paris, France
- 2014 New energy sources European Society for Endoscopic Surgery, Paris, France  
Fundamentals of Endoscopic Surgery Training Japanese Society of Endoscopic Surgeons  
Morioka, Japan
- 2015 Education and Evolution in American Surgery Association of Polish Surgeons  
Lublin, Poland
- 2016 We can All be Innovators. Keynote Address International Pediatric Endoscopic Group  
Fukuoka, Japan  
Bile Duct Injury World Congress of Endoscopic Surgery, Shanghai China
- 2017 Modern Parathyroid Surgery  
Kyoto, Japan  
Electrosurgical energy in a nutshell  
Strasbourg France (via telecon)
- 2018 Advances in Surgery First Congress of Minimally Invasive Surgery in Lublin  
Lublin, Poland

**Service to the Profession:**

- 1991-1997 Ad hoc Reviewer  
*Fertility and Sterility*  
*Gastroenterology*  
*Clinical Gastroenterology and Hepatology*  
*Journal of the American College of Surgeons*  
*Journal of the American Medical Association*  
*Surgery*  
*Surgical Innovation*
- 1983-1984 Clinical Articles Editor  
*Infections of Surgery*
- 1999- Editorial Board Member  
*Journal of Laparoendoscopic & Advanced Surgical Techniques*
- 2000-2013 Editorial Board Member  
*Same Day Surgery*
- 2002- Editorial Board Member  
*Surgical Endoscopy and Other Interventional Techniques*
- 2003- Multimedia Editor  
*Surgical Endoscopy and Other Interventional Techniques*
- 2004- Editorial Board Member  
*Medscape Surgery*
- 2006- Editorial Board Member  
*Surgical Innovation*
- 2007-2009 Grant Review Committee  
SAGES
- 2008- Co-Chair Grant Review Committee

2011- Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR)  
Editorial Board Member  
*Chinese Journal of Digestive Surgery*

**Service to the Public:**

1986-2000 United States Army Reserve Medical Corps/Major (retired January 2000)  
Army Commendation Medal  
Southwest Asia Service Medal  
Kuwait Liberation Medal (The Wisam Al-Tahrir was issued by the government of Kuwait for service during the Liberation of Kuwait campaign)  
United States Air Force Achievement Medal

1986-2005 Tufts Medical Center: Numerous Oliver Smith Awards for compassion and service to patients

2004- Boston Museum of Science/Health Care Adviser for special projects  
Hall of Human Life Committee

2007-2015 Boston Museum of Science/Board of Overseers  
Major advisory committee to the President of the Museum of Science concerning curriculum and community scientific education

2007 Numerous Circle of Values citation from patients

2019 Judge, 43 North Semifinals

**Medical School Service:**

1995-2005 Institution Review Board (Chairman 2000-2005)

2004 Center for Innovative Minimally Invasive Therapy Forum Diffusion of Technology in Surgery  
Harvard Medical School, Boston, MA

2005- 2015 Surgery Clerkship Committee  
Harvard Medical School, Boston, MA

2010-2015 Curriculum Subcommittee on Course and Clerkship Review and Evaluation  
Primary Reviewer HMS Ob/Gyn Clerkship  
Secondary Reviewer HMS GI Pathophysiology  
Secondary Reviewer HMS Medicine Clerkship  
Harvard Medical School, Boston, MA

2014-2015 Ad hoc committee reviewer for promotion for professor - HMS

2015 – Chairman, Department of Surgery University at Buffalo  
President, University Surgeons Incorporated (UBMD Surgery)

2017 – Director UB RIS<sup>2</sup>E<sup>2</sup> ( Research Innovation Simulation Structure and Education ) Center

2018 LCME accreditation taskforce  
Chairman, Pediatric Chair Search Committee

2019 Board Advisor Academic Malpractice Insurance (SUNY)

**Departmental Service:**

LOCAL DEPARTMENTAL/HOSPITAL SERVICE:

1986-1988 Acting Director  
New England Medical Center, Emergency Department, Boston, MA

1987-2005 Director, Educational Program in Minimally Invasive Surgery  
New England Medical Center, Boston, MA

1989-1996 Director  
New England Medical Center, Surgical Intensive Care Unit, Boston, MA

1991-2005 Medical Director  
New England Medical Center, Center for Minimally Invasive Surgery, Boston, MA

1993-2005 Director of Surgical Research  
New England Medical Center, Boston, MA

1996-2001 Vice-Chairman IRB  
New England Medical Center, Boston, MA

2001-2005 Executive Committee Chairman IRB  
New England Medical Center, Boston, MA

2001-2005 Chairman - Red and Blue Institutional Review Boards (IRB)  
New England Medical Center (joint appointment with Tufts University School of  
Medicine), Boston, MA

2004-2005 Associate Director, Residency Program  
New England Medical Center, Department of Surgery, Boston, MA

2005-2015 Chief of Surgery  
Cambridge Health Alliance, Cambridge, MA

2005-2015 Medical Student Clerkship Director - 4 hrs/week  
Harvard Medical School, Boston, MA

2007-2015 Site Director - General Surgical Residency - 4-8 hrs/week  
Beth Israel Deaconess Surgical Residency, Boston, MA

2013-2015 Board of Directors  
Mount Auburn Cambridge IPA

2015-2018- Director of Surgical Programming Great Lakes Health System  
MEC

2019 Chairman Cancer Committee  
Director Tissue Bank

LOCAL COMMITTEE SERVICE:

1996-2004 Research Council - Executive Committee  
New England Medical Center, Boston, MA

1988-1996 Infection Control Committee  
New England Medical Center, Boston, MA

1988-1996 Nutrition Committee  
New England Medical Center, Boston, MA

1990-1998 Critical Care Committee  
New England Medical Center, Boston, MA

1993-2005 Institutional Review Board Member (IRB)  
New England Medical Center, Boston, MA

2000-2005 Risk Management Committee  
New England Medical Center, Boston, MA

2000-2003 Value Analysis Capital Acquisition Committee  
New England Medical Center, Boston, MA

2001-2005 Clinical Trials Committee  
New England Medical Center, Boston, MA

2002-2005 Conflict of Interest Committee  
New England Medical Center, Boston, MA

2003-2005 Scientific Review Committee  
New England Medical Center, Boston, MA

2005-2015 CEO Council  
Cambridge Health Alliance, Cambridge, MA  
Capital Finance Committee  
Cambridge Health Alliance, Cambridge, MA  
Credentials Committee  
Cambridge Health Alliance, Cambridge, MA  
Chiefs of Service Council  
2011- Co-chair  
Cambridge Health Alliance, Cambridge, MA  
Surgical Executive Committee  
2005- Co-Chair  
Cambridge Health Alliance, Cambridge, MA  
Advisory Committee for EMR Implementation  
2005- Chairman  
Cambridge Health Alliance, Cambridge, MA  
Board of Trustees Strategic Planning Committee  
Cambridge Health Alliance, Cambridge, MA  
2015 Strategic Planning Group  
Cambridge Health Alliance, Cambridge, MA  
Medical Executive Committee  
Cambridge Health Alliance, Cambridge, MA  
Information Technology Steering Committee  
Cambridge Health Alliance, Cambridge, MA  
Managed Care Committee  
2006- Chairman  
Cambridge Health Alliance Physicians Organization Board, Cambridge, MA

2006-2015 Finance Committee  
Cambridge Health Alliance Physicians Board, Cambridge, MA

2006-2011 Investment Committee  
Cambridge Health Alliance Physicians Board, Cambridge, MA

2008-2014 Strategic Reorganizing Steering Committee  
Cambridge Health Alliance, Cambridge, MA

2008-2009 Steering Committee for Implementation of Surgical Incentives for Completing FLS  
CRICO/RMF

2009-2011 Accountable Care Organization Steering Committee  
Cambridge Health Alliance, Cambridge, MA  
Chief Medical Officer Search Committee

2010-2015 Chair - Surgical Safety Checklist Implementation Committee  
Chair - Surgical Executive Committee  
Cambridge Health Alliance, Cambridge, MA

REGIONAL DEPARTMENTAL SERVICE:

1987-1990 Chief of Surgery  
Lemuel Shattuck Hospital, Boston, MA

**NATIONAL AND INTERNATIONAL DEPARTMENTAL SERVICE:**

1990-1991 Surgical Team Chief, Director of Intensive Care  
365th Evacuation Hospital, US Military Complex, Seeb, Oman

1992 Program Director: Minimally Invasive Surgery- Lecture and Operating Room  
Preceptorships in General, Urologic and Gynecological Surgery  
Sponsored by Saudi ARAMCO, Dhahran, Saudi Arabia

1993 Co-director: Developing a Research Program in Surgery  
Sponsored by: United States State Department and the Kingdom of Saudi Arabia,  
Jeddah, Saudi Arabia

1994 Program Director: Minimally Invasive Surgery- Lecture and Operating Room  
Preceptorships in General, Urologic and Gynecological Surgery  
Sponsored by Saudi ARAMCO, Dhahran, Saudi Arabia

1996 Course Director: Advanced Minimally Invasive Surgery: Lecture and Laboratory Program  
Sponsored by: University of Cairo and Liver Institute, Menufiya University, Cairo, Egypt

1998 Course Director: Advanced Minimally Invasive Surgery: Lecture and Laboratory Program  
Sponsored by: Consortium of Hospital in Thessalonica, Thessalonica, Greece

2009 Symposium Director/organizer: Society of American Gastrointestinal and Endoscopic  
Surgeons(SAGES)/Japanese Society of Endoscopic Surgery (JSES) – Symposium in Issues  
in Minimally Invasive Surgery, Tokyo, Japan

2010 Symposium Director/organizer: Society of American Gastrointestinal and Endoscopic  
Surgeons(SAGES)/ Association Latino Americana de Cirugia Endoscopica (ALACE)  
Symposium: Management of Complication in Minimally Invasive Surgery  
Sponsored by ALACE/ Sociedade Brasileira de Videocirurgia (SOBRACIL), Salvador, Brazil

2012 Symposium Chair, Robotics In MIS – Hype or Hope  
Japanese Society of Endoscopic Surgery, Yokohama, Japan

2014 Post graduate Course Co- Chair, Flexible Endoscopy for Surgeons  
European Society for Endoscopic Surgery, Paris, France

**Courses Taught & Other Educational Activities:**

**TEACHING OF STUDENTS IN COURSES:**

1985-1986 Instructor, Surgical Operative Technique, Patient Management, Pathophysiology  
Third and Fourth Year Medical Students on Surgical Clerkships: 1-2 hrs/day  
(60 students/yr)  
Baylor College of Medicine, Houston, TX

1987-2005 Director, Educational Program in Minimally Invasive Surgery  
Medical Students on Surgical Rotations: 2-4 hrs/week 60 students/yr  
New England Medical Center, Boston, MA

1990-1997 Course Director, History of Surgery  
Undergraduate Students: 3 hrs/week, 10 weeks/yr (15 students/yr)  
Tufts University School of Medicine, Boston, MA

2005-2015 Master Clinician Lectures in Surgery  
Medical Students on Surgical Rotations: 1-2 hours/month (12 students/yr)  
Harvard Medical School - Cambridge Health Alliance, Cambridge, MA

2005-2015 Third Year longitudinal Preceptor in Surgery  
Medical Students on Surgical Rotations: 6-8 hrs/week (4 students/yr)

2010-2015 Harvard Medical School - Cambridge Health Alliance, Cambridge, MA  
Faculty Mentor, John Warren Surgical Society (100 students/yr)  
Harvard Medical School, Boston, MA  
2015 Faculty Mentor, Frank Hasting Hamilton Surgery Society  
University at Buffalo, Jacobs School of Medicine

FORMAL TEACHING OF RESIDENTS, CLINICAL FELLOWS, AND RESEARCH FELLOWS (POST-DOCS):

1987-2005 Instructor: Surgical Operative Technique, Patient Management, Pathophysiology  
PGY 1-5 Surgical Residents in clinical and didactic settings: 5-10 hrs/weekly  
New England Medical Center, Boston, MA  
1986-1992 Advanced Trauma Life Support (ATLS) Instructor  
Lecturer and Practical Skills Examiner, and the US Army: 4 hrs, 2-3 x/yr  
Beth Israel Hospital and United States Army  
1993-1997 Course Director Speaking for Excellence  
Surgical Residents and Fellows  
New England Medical Center, Department of Surgery, Boston, MA  
2002-2005 Course Developer and Lecturer: HIPAA Implications in Clinical Research  
Medical and Dental Attending, Fellows, Nurses: 1 hr/mo  
Tufts New England Medical Center/Tufts University Health Sciences Campus  
2005-2015 Instructor: Surgical Operative Technique, Patient Management, Pathophysiology  
PGY 2&4 Surgical Residents in clinical and didactic settings: 6-8 hrs/wk  
Harvard Medical School - Cambridge Health Alliance, Cambridge, MA  
2006-2015 Weekly Lecture Series in Surgery  
House Staff and Students  
Beth Israel Deaconess Medical Center Department of Surgery, Boston, MA  
2010-2015 The Academy at Harvard Medical School  
Writing for Scholarship Interest Group  
Symposium Workshop Leader  
Harvard Medical School, Boston, MA  
2017 - Faculty, Minimally Invasive Surgery Fellowship

CLINICAL SUPERVISORY AND TRAINING RESPONSIBILITIES:

2004-2005 Associate Surgical Residency Program Director Tufts Medical Center  
10 hrs/week 30 residents  
2005-2015 Cambridge Health Alliance Integrated Medical Student Program  
Harvard Medical School  
2005-2015 Rotation Preceptor/ Cambridge Health Alliance Integrated Medical Student Program  
4 students/yr  
Harvard Medical School

COURSES DIRECTED:

1994 Clinical Program in Laparoscopy (Didactic and Operative) Saudi ARAMCO  
Hospitals Dhahran, Saudi Arabia  
1996 Clinical Program in Laparoscopy (Didactic and pre-clinical operative) University  
of Cairo, Cairo, Egypt  
1998 Clinical Program in Laparoscopy (Didactic and pre-clinical operative)  
Thessaloniki, Greece

2002	Surgeon in the Digital Age : Digital Video Editing for Surgeons; Digital Video Editing; Digital Photography; Advanced Microsoft Office
	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting
2004	Surgeon in the Digital Age: PDA for Surgeons
	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting
2004	Surgeon in the Digital Age: Video Editing for Surgeons
	International Pediatric Endoscopy Group (IPEG)
2005	Surgeon in the Digital Age: Understanding Operating Room Video
	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting
2006	Surgeon in the Digital Age: Video Editing for Surgeons
	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting
2008	Device Development: From Concepts to Cash
	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting
2009	PG Course Chairman: Patient Safety in Biliary Surgery
	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting
2011	Session Co- Chair and Organizer: The Epidemic of Obesity: Surgical Implications
	Kelly and Carlos Pelligrini SSAT/SAGES Joint Symposium
2014	Course co-chair Surgical Simulation: State of the Art
1990-2007	Fellow of the American College of Surgeons (ACS)
	Introducing EMR into Your Practice
2011	Video Based Education – Video Classics
	American College of Surgeons Clinical Congress
2012	Safe Use of Energy in Surgery
	American College of Surgeons Clinical Congress
2013	Video Based Education – Video Classics
	American College of Surgeons Clinical Congress
2014-2019	Icons in Surgery
	American College of Surgeons Clinical Congress
2017	Health Policy and Leadership Course
	Boston, MA
2017-2019	SAGES Stories - SAGES Spring Surgical Week
2019	UB BLAST Innovation and entrepreneurial boot camp – course director

**Research Supervision:**

LABORATORY AND OTHER RESEARCH SUPERVISORY AND TRAINING RESPONSIBILITIES:

1986-1993	Faculty Supervisor, Laboratory Practicum in Animate Surgery Tufts University School of Medicine, Boston, MA
1991-2005	Project Supervisor: Surgical Research Project Selective 0-2 undergraduate students/yr, 1-3 hrs/wk Tufts University School of Medicine

FORMALLY SUPERVISED TRAINEES:

*Surgical Research Laboratory New England Medical Center*

1991-1992	Stephen Holzan, MD 1 year laboratory fellow. Plastic Surgery private Practice
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- 1992-1999 John Lantis, MD FACS - 2 years laboratory fellow, 5 years surgical residency. Multiple publication while fellow. Chief of Division, Vascular/Endovascular Surgery, St. Luke's Roosevelt Hospital, New York, NY Associate Professor of Clinical Surgery, Columbia University. His current basic science research is in the area of the treatment of bio-burden in chronic wounds and intimal response to balloon angioplasty. Principal investigator on multiple chronic wound trials including the role of treatments for wound closure; negative pressure wound therapy, growth factors, and skin substitutes. Dr. Lantis lectures extensively nationally and internationally on the role of the active agents in the treatment of chronic wounds and the importance of the management of bio-burden in limb salvage. Sixteen publications including recent double blinded clinical trial published in the Journal of Vascular Surgery in 2013.
- 1992-1998 Daniel M Herron, MD FACS - 1 year laboratory fellow, 5 years surgical residency. Multiple publications while a fellow. Professor of Surgery. Chief of Minimally Invasive Surgery, Bariatric Surgery, Mount Sinai Hospital, New York, NY Second Vice-President of SAGES 2009-2011. SAGES Program Chair 2011. ASMBS Program Co- Chair 2012. Chair SAGES Program Committee. Considered a national and international expert in bariatric surgery, he has 41 publications focused on MIS and Bariatric surgery.
- 1993-1994 Heather Paddock, MD 1 year laboratory fellow Pediatric Surgeon MUSC
- 1994-1995 Kathryn Dirkes, MD 1 year laboratory fellow Pediatric Surgeon UB SMBS
- 1995-1996 Chris Pappas, MD general surgeon and Marilyn Medina, MD urologist 1 year laboratory fellows
- 1997-2004 William Arnold, MD/ General Surgeon and Chief of General Surgery, Maricopa County Medical Center, Phoenix, AZ. 2 years laboratory fellow, 5 years surgical residency.
- 2002-2011 Meghna Misra, MD - Multiple publications as trainee. 3 years clinical research supervisor in medical school. Former Surgical Resident, Beth Israel Deaconess Medical Center, Boston, MA. Pediatric Surgery Resident Department of Surgery, Division of Pediatric Surgery, Oregon Health and Science University, Portland, OR. 10 publications.
- 2003-2003 Salama Abdelkader MD 1 year Visiting lab fellow from Egypt
- 2003-2005 Kristen Goodell, MD - Primary Care research Fellow 2 year resident and 1 years laboratory fellow. Director for Innovation in Medical Education at HMS Center for Primary Care. She worked on permissible uses of multimedia in medical education during the introduction of HIPAA.
- Tufts University Human Factors Program*
- 2009-2010 Maureen Mulcare, MS/ Graduate Student - Tufts University Department of Engineering. Graduate Thesis Co-Adviser. Publication as trainee. Human Factors Specialist at Wiklund Research & Design. Has used training to study human factors in multiple health care environments.
- RPI – HMSO Wright State Collaborative*
- 2011-2013 Amine Chellali, PhD - Research Fellow HMS and Member of CHA ISSyL lab. Dr. Chellali completed 2 years as post-doctoral fellow at CHA. During this time, he devised, studied, executed research, and wrote multiple papers several of which are already submitted or published. He has been Assistant Professor (Maître de Conférences) at University of Evry in France since September 2013.
- 2013-2014 Helena Mentis, PhD 1 yr post doc in Issyl Lab Asst. Prof UMBC Computer Science  
Amie Miller, MD I year laboratory Fellow surgery resident

2014-2016 Ali Linsk, MD 2 year laboratory Fellow

**Grant & Fellowship Support:**

**ACTIVE:**

- 2010-2015 1R01EB010037-01 Developing a Virtual Basic Laparoscopic Skill Trainer (VBLaST)  
Development virtual simulation of standard validated laparoscopic skill trainer. 2.8M grant in total –NIH  
Role: Consultant 1% effort Suvranu De, PhD PI
- 2010-2015 Prospective Multicenter Human Clinical Trial of NOTES Versus Conventional Cholecystectomy  
Ethicon, Stryker, Olympus, Storz Consortium (1.6 M in funding)  
Goals: Assess effectiveness of novel surgical technique for cholecystectomy in clinical setting  
Role: Principal Investigator 3% effort
- 2010-2014 Laparoscopic Surgery Training System (LASTS) Phase I SBIR contract  
Office of Naval Research (ONR), US Navy Contract #: N00014-10-M-0152 \$100K  
Goal – Develop Cognitive task Analysis (CTA) for laparoscopic procedures  
Role: Consultant 1% effort P Weyhrauch PI
- 2011 -2014 Effects of FLS Completion on Laparoscopic Cholecystectomy Complication Rates  
Sponsor: Johnson and Johnson (\$134 K)  
Goals: Determine if FLS certification has an independent effect on surgical complication rate.  
Role: Principal Investigator 2% effort
- 2011- 2016 1R01EB009362-01A2 Developing Physics-Based Virtual Simulation Technology for Natural Orifice Transluminal Endoscopic Surgery 2.8M – NIH total  
Development virtual simulation Natural orifice (NOTES) procedure  
Role: Consultant 1% effort Suvranu De, PhD PI
- 2011- 2016 2 R01 EB005807 Objective is to develop an Operating Room Simulator based Head mounted displays. 2.8M –NIH  
Role: Co-Investigator 1%effort Suvranu De PhD PI
- 2011-2014 Laparoscopic Surgery Training System (LASTS) Phase II SBIR contract  
N00014-11-C-0426 Office of Naval Research \$500,000  
Goal – Further develop Cognitive Task Analysis (CTA) for laparoscopic procedures  
Role: Consultant 1% effort P Weyhrauch PI
- 2012-2017 VEST 1R01EB014305 - 01A1  
Project to develop virtual simulation of tissue energy interactions with the goal of developing surgical simulation to promote patient safety. 2.8 M NIH  
Role: Co-Investigator 1% effort Suvranu, PhD Pi

**COMPLETED:**

- 1987-1988 Microwave Blood Warming  
DOD SBIR 100k  
Goal: Develop concept of using microwaves to warm blood.  
Role: Co-Principal Investigator
- 1988-1989 Microwave Blood Warming  
NIH SBIR 250K  
Goals: Refine blood warming methods and refine maximal heating limits.  
Role: Co-Principal Investigator

1992-1994 Teaching Center for Minimally Invasive Surgery  
US Surgical Corp 750K  
Goals: Develop teaching center for novel surgical techniques.  
Role: Principal Investigator

1994-1995 Surfactant in ARDS  
Forest Pharmaceuticals  
Goals: Assess potential reduction in ARDS with novel molecule  
Role: Site Principal Investigator

1995-1996 Preclinical Evaluation of Anti-adhesion Barrier  
Genzyme approx. 75K  
Goals: Assess efficacy of hyaluronic acid compounds to achieve adhesion reduction  
Role: Principal Investigator

1995-1996 IL 1-RA in Sepsis  
Synergen approx. 50k  
Goals: Clinical trial to assess mortality reduction  
Role: Site Principal Investigator

1996-1997 Implantation of Anti-adhesion Barrier  
Genzyme Approx 50K  
Goals: 1st in world implantation of anti-adhesion barrier in humans.  
Role: Principal Investigator

1997-1998 Antibiotics in Sepsis  
Merck Approx 50K  
Goals: Imipenam for treatment of intra-abdominal sepsis  
Role: Site Principal Investigator

2000-2010 Program in Human Factors in Surgery  
NSF Grant IIS-0238284 Approx 350K  
This is a graduate program for Masters and PhD students research areas include simulation, patient safety, team communication, surgical skill acquisition.  
Role: Co-program Director for clinical program Caroline Cao, PhD PI

2003-2005 Prophylaxis in Colon Surgery  
Merck Approx 50K  
Goals: Ertapenam effective for prophylaxis in colon surgery  
Role: Site Principal Investigator

2003-2005 Panacryl Implantation in hernia risk abdominal wall closure.  
Ethicon Approx 75K  
Goals: Assess efficacy of novel suture in clinical setting  
Role: Site Principal Investigator

2004 Preclinical Implantation of Diaphragmatic Prosthesis  
LifeCell Approx 50k  
Goals: Assess acellular dermis as diaphragmatic replacement  
Role: Principal Investigator

2007-2009 Human Factors in Surgery  
SAGES 25k  
Goals: Evaluate the effect of distraction on skill task performance  
Role: Co-Investigator Caroline Cao, PhD PI

2011-2014 Title of proposal: Haptics for Medical Simulation (HAMS) Phase I SBIR contract  
TATRC, MRMCMC, US Army Contract #: W81XWH-11-C-0074  
Develop hyper-real haptic simulation for laparoscopic simulation

**Publications:**

## 1. PEER-REVIEWED JOURNALS:

## (RESEARCH INVESTIGATIONS)

1. Pomerantz JR, **Schwartzberg SD**. Grouping by proximity: selective attention measures. *Perception and Psychophysics* 1975; 18:355-361.
2. **Schwartzberg SD**, Pokorny WJ, McGill CW, Harberg FJ. Gastroschisis and omphalocele. *Am J Surg* 1982;144:650-654.
3. Mallette LE, Eisenberg KL, **Schwartzberg SD**, Suki WN, Noon GP. Treatment of hyperparathyroidism of chronic renal failure with total parathyroidectomy and autogenous parathyroid grafts. *Am J Surg* 1983;146:727-733.
4. Mallette LE, Eisenberg KL, **Schwartzberg SD**, Noon GP. Factors that influence parathyroid graft function. *Ann Surg* 1984;199:192-196.
5. **Schwartzberg SD**, Bergman KS, Harris BH. A continuous hemorrhage model of pediatric trauma. *J Pediatr Surg* 1988;23:605-609.
6. Harris BH, **Schwartzberg SD**, Seman TM, Hermann C. The hidden morbidity of pediatric trauma. *J Pediatr Surg* 1989;24:103-106.
7. Champion HR, Copes WS, Sacco WJ, Lawnick MM, Bain LW, Gann DS, Gennarelli T, Mackenzie E, **Schwartzberg SD**. A new characterization of injury severity. *J Trauma* 1990;30:539-546.
8. Copes WS, Champion HR, Sacco WJ, Lawnick MM, Gann DS, Gennarelli T, Mackenzie E, **Schwartzberg SD**. Progress in characterizing anatomic injury. *J Trauma* 1990;30:1200-1207.
9. **Schwartzberg SD**, Allen MJ, Connolly RJ, Grabowy RS, Carr KL, Cleveland RJ. Rapid inline blood warming using microwave energy: preliminary studies. *J Surg Res* 1991;4:505-510.
10. Holzman S \*, Connolly RJ, **Schwartzberg SD**. The effect of in-line microwave energy on blood: a potential modality for blood warming. *J Trauma* 1992;41:89-94.
11. Carroll JC\$, **Schwartzberg SD**, Ucci AA, Schlesinger RM, Lauritzen D, Sant GR. A new matrix material for potential use in "reversible vasectomy"- preliminary animal biocompatibility studies. *Urology* 1993;41:34-37.
12. Chernoff AE, Porat R, Paddock H,\* **Schwartzberg SD**, Connolly R J, Gelfand JA, Dinarello CA. Bactericidal-permeability increasing protein blocks fever and septic shock in experimental endotoxemia and gram-negative bacteremia in rabbits. *Lymphokine Cytokine Res* 1993;12; 344-345.
13. Porat R, Paddock HN\*, Wilckens T, **Schwartzberg SD**, Connolly R J, Gelfand JA, Dinarello CA. Blockade of TNF by the soluble TNF receptor P55 increases survival in experimental E coli sepsis. *Lymphokine Cytokine Res* 1993;12; 340-341.
14. Dirkes K\*, Harris BH, Connolly RJ, **Schwartzberg SD**, Dinarello CA, Gelfand JA, Coran A. Platelet activating factor-antagonist improves survival in experimental staphylococcal septicemia. *J Pediatr Surg* 1994;29:1055-1058.
15. Fisher CJ, Dhainaut JFA, Opal SM, Pribble JP, Balk RA, Slotman GJ, Iberti TJ, Rackow EC, Shapiro MJ, Greenman RL, Reines HD, Shelly MP, Thompson BW, Labrecque JF, Catalano MA, Knaus WA, Sadoff JC, Astiz M, Carpatic Bone RC, Freidman B, Mure AJ,

- Brathwaite C, Shapiro E, Melhorm L for the Phase III rhIL-1ra Study Group. Recombinant human interleukin 1, receptor antagonist in the treatment of patients with sepsis syndrome - results from a randomized, double-blind, placebo-controlled trial. *JAMA* 1994;271:1836-1843. \*\*I was a member of the study group.
16. Fink MP, Snyderman D, Niederman MS, Leeper KV, Johnson RH, Heard SO, Wunderink RG, Caldwell JW, Schentag JJ, Siami GA, Zameck RL, Haverstock DC, Reinhart HH, Echols RM, Helmsmoortel C, Sojastrzepa D, **Schwartzberg SD**, Barefoot L, Fein AM, Feinsilver SH, Ilowite JS, Schulman D, Jones DB, Griffin RI. Treatment of severe pneumonia in hospitalized patients - results of a multicenter, randomized, double-blind trial comparing intravenous ciprofloxacin with imipenem-cilastatin. *Antimicrob Agents Chemother* 1994;38:547-557.
  17. Klein RD#, Jessup G, Ahari F, Connolly RJ, **Schwartzberg SD**. Comparison of titanium and absorbable polymeric surgical clips for use in laparoscopic cholecystectomy. *Surg Endosc-Ultrasound Intervent Tech* 1994;8:753-758.
  18. Holzman S\*, Connolly RJ, **Schwartzberg SD**. Effect of hyaluronic acid solution on healing of bowel anastomosis. *J Invest Surg* 1994;7:431-437.
  19. Pappas CG,\* Paddock H\*, Goyette P, Grabowy R, Connolly RJ, **Schwartzberg SD**. In-line microwave blood warming of in-date human red blood cells. *Crit Care Med* 1995;23:1243-1250.
  20. Sable D#, **Schwartzberg SD**. T-tube jejunostomy. *JPEN* 1995;19:326-327.
  21. Spanier TB#, Klein RD,# Nasraway SA, Rand WM, Rohrer RJ, **Schwartzberg SD**. Multiple organ failure after liver transplantation. *Crit Care Med* 1995;23:466-473.
  22. Medina M\*, Paddock H\*, Connolly RJ, **Schwartzberg SD**. Novel anti-adhesion barrier does not prevent anastomotic healing in rabbit model. *J Invest Surg* 1995;8:179-186.
  23. Pappas C,\* Xang S, Connolly RJ, **Schwartzberg SD**. Noninvasive cardiac output monitoring. *J Surg Res* 1995;59:504-510.
  24. Thurlow J,\$ Rohrer R, **Schwartzberg SD**. Laparoscopic fenestration of renal transplant lymphocele. *Surg Laparosc Endosc* 1995;6:290-295
  25. Porat R, Paddock HN\*, **Schwartzberg SD**, Connolly RJ, Wilkens T, Dasch JR, Gascon MP, Hutchison JS, Ythier A, Wallach D. Glycosylated recombinant human tumor necrosis factor binding protein-1 reduces mortality, shock, and production of tumor necrosis factor in rabbit *Escherichia coli* sepsis. *Crit Care Med* 1995;23:1080-1089.
  26. Castella, X., A. Artigas, et al. **Schwartzberg SD**. A Comparison of Severity of Illness Scoring Systems for Intensive Care Unit Patients – Results of a Multi-center Multinational Study *Critical Care Medicine* 1995;23: 1327-1335.
  27. **Schwartzberg SD**, Connolly RJ, Reindollar R, Sant G, Cleveland RJ. Development, planning and execution and international training program in laparoscopic surgery. *Surg Laparosc Endosc* 1996;6:10-15
  28. Knaus, W. A., F. E. Harrell, **Schwartzberg S** et al. "Use of predicted risk of mortality to evaluate the efficacy of anticytokine therapy in sepsis." *Critical Care Medicine* 1996;4:46-56.
  29. Fallick ML\$, Sable DB#, Faller G, Larock D#, Sant GR, Schlesinger RM, **Schwartzberg SD**. Histologic evidence of an inflammatory suture reaction to suture material in the dog vas deferens. *Br J Urol* 1997;79:70-73.
  30. Herron DM\*, Grabowy R, Connolly R, **Schwartzberg SD**. The limits of blood warming: maximally heating blood with an inline microwave blood warmer. *J Trauma: Injury, Infection and Critical Care* 1997;43:219-228. First-place winner -

Best Manuscript, EAST Paper Competition 1997.

31. Cowan JM, Dayal Y, **Schwartzberg S**, Tischler AS. Cytogenetic and immunohistochemical analysis of an adult anaplastic neuroblastoma. *Am J Surg Pathol* 1998;21:957-963.
32. Lantis JC\*, Durville FM, Connolly RJ, **Schwartzberg SD**. Comparison of coagulation modalities in surgery. *J Laparoendosc Adv Surg Tech A* 1998;8:381-394.
33. Herron DM\*, Lantis JC II\*, Maykel J.# Basu C#, **Schwartzberg SD**. The 3-D monitor and head-mounted display. A quantitative evaluation of advanced laparoscopic viewing technologies. *Surg Endosc* 1999;13:751-755.
34. Cole DJ, Connolly RJ, Chan MW, **Schwartzberg SD**, Byrne TK, Adams DB, Baron PL, O'Brien PH, Metcalf JS, Demcheva M, Vournakis J. A pilot study evaluating the efficacy of a fully acetylated poly-N-acetyl glucosamine membrane formulation as a topical hemostatic agent. *Surgery* 1999;126:510-517.
35. Chan M, **Schwartzberg SD**, Connolly RJ. Comparison of P-GlcnaC with absorbable collagen (Actifoam) and fibrin sealant for achieving hemostasis in a swine model of splenic hemorrhage. *J Trauma* 2000;48:454-458.
36. Lantis, JC II\*, Gallivan EK\$, Hekier R, Connolly R, **Schwartzberg SD**, Crombleholme T. A comparison of collagen and PTFE patch repair in a rabbit model of congenital diaphragmatic hernia. *J Invest Surg* 2000;13:319-325.
37. **Schwartzberg SD**, Hermann G. Percutaneous trans-balloon puncture for preperitoneal hernia repair. *Surgical Endosc* 2001;15:1235-1236.
38. Kim K, **Schwartzberg SD**, Onel E: An infrared ureteral stent to aid in laparoscopic retroperitoneal lymph node dissection. *J Urol* 2001;166:1815-1816.
39. Riskin DJ\$, **Schwartzberg SD**. A comparison of holding strength of various surgical clips. *Surg Endosc* 2003;17:654-656.
40. Berci G, **Schwartzberg SD**. The importance of understanding the basics of imaging in the era of high-tech endoscopy: part II. Logic, reality, and utopia. *Surg Endosc* 2002;16:1518-1522.
41. Wang C, **Schwartzberg SD**, Berliner E, Zarin DA, Lau J. Hyperbaric oxygen for treating wounds: a systematic review of the literature. *Arch Surg* 2003;381:272-279;
42. Salama I\*, Connolly R, **Schwartzberg SD**. Laparoscopic devascularization of lower esophagus and upper stomach: experimental study on the pig. *J Laparoendosc Adv Surg Tech A* 2003;13:59-63.
43. Helmy A, Abdelkader Salama I\*., **Schwartzberg SD**. Laparoscopic esophagogastric devascularization in bleeding varices. *Surg Endosc* 2003;17:1614-1619.
44. Orr JW Jr, Montz FJ, Barter J, **Schwartzberg SD**, Delmore JE, Dodson MK, Gallup D, Yeh KA, Elias EG. Continuous abdominal fascial closure: a randomized controlled trial of poly(L-lactide/glycolide). *Gynecol Oncol* 2003;90:342-347.
45. Fischer TH, Connolly R, Thatte HS, **Schwartzberg SD**. Comparison of structural and hemostatic properties of the poly-n-acetyl glucosamine syvek patch with products containing chitosan. *Microsc Res Tech* 2004;63:168-174.
46. **Schwartzberg SD**, Chan MW, Cole DJ, Read M, Nichols T, Bellinger D, Connolly RJ. Comparison of poly-n-acetyl glucosamine with commercially available topical hemostats for achieving hemostasis in coagulopathic models of splenic hemorrhage. *J Trauma* 2004;57:S29-32.
47. Goodell KH,\* Barnes M, Heffernan KG, **Schwartzberg SD**. Multimedia presentations in the age of The Health Insurance Portability and Accountability Act. *Surg Endosc*

- 2005;19:285-288.
48. Grunwaldt LJ, **Schwartzberg SD**, Rattner DW, Jones DB. Is Laparoscopic inguinal hernia repair an operation of the past? *J Am Coll Surg* 2005;200:616-620.
  49. Misra M, Schiff J, Rendon G, Rothschild J, **Schwartzberg S**. Laparoscopic cholecystectomy after the learning curve. What should we expect? *Surg Endosc* 2005;19:1266-1271.
  50. Salama I, \* **Schwartzberg SD**. Utility of a voice-activated system in minimally invasive surgery. *J Laparoendosc Adv Surg Tech A* 2005;15:443-446.
  51. Avgerinos DV, Goodell KH\*, Waxberg S, Cao CG, **Schwartzberg SD**. Comparison of the sensitivity of physical and virtual laparoscopic surgical training simulators to the user's level of experience. *Surg Endosc* 2005;19(9):1211-1215.
  52. Schiff J#, Misra M#, Rendon G, Rothschild J, **Schwartzberg SD**. Laparoscopic cholecystectomy in cirrhotic patients. *Surg Endosc* 2005;19(9):1278-1281.
  53. **Schwartzberg SD**. The emergence of radiofrequency identification tags: applications in surgery. *Surg Endosc* 2006;20(8):1315-1319.
  54. Goodell KH\*, Cao CGL, **Schwartzberg SD**. Effects of cognitive distraction on performance of laparoscopic surgical tasks. *J Laparoendosc Adv Surg Tech A* 2006;16:94-98.
  55. Urbach DR, Horvath KD, Baxter NN, Jobe BA, Madan AK, Pryor AD, Khaitan L, Torquati A, Brower ST, Trus TL, **Schwartzberg SD**. A research agenda for gastrointestinal and endoscopic surgery. *Surg Endosc* 2007;9:1518-1525.
  56. Bell AK, Saide MB, Johanas JT, Leisk GG, **Schwartzberg SD**, Cao CG. Innovative dynamic minimally invasive training environment (DynaMITE). *Surg Innov* 2007;14:217-224.
  57. Cao CGL, Zhou M, Jones DB, **Schwartzberg SD**. Can surgeons think and operate with haptics at the same time? *J Gastrointest Surg* 2007;11:1564-1569.
  58. Zhou M, Perreault J, **Schwartzberg SD**, Cao CG. Effects of experience on force perception threshold in minimally invasive surgery. *Surg Endosc* 2008;22:510-515.
  59. O'Connor A, **Schwartzberg SD**, Cao CG. How much feedback is necessary for learning to suture? *Surg Endosc* 2008;22:1614-1619.
  60. Powers K, Rehrig ST, **Schwartzberg SD**, Callery MP, Jones DB. J Seasoned Surgeons Assessed in a Laparoscopic Surgical Crisis. *J Gastrointest Surg*. 2009;13:994-1003. Epub 2009 Feb 4.
  61. Bell AK, Zhou M, **Schwartzberg SD**, Cao CG. Using a dynamic training environment to acquire laparoscopic surgery skill. *Surg Endosc*. 2009;23:2356-63. Epub 2009 Mar 5.
  62. Derevianko AY, **Schwartzberg SD**, Tsuda S, Barrios L, Brooks DC, Callery MP, Fobert D, Irias N, Rattner DW, Jones DB. Malpractice carrier underwrites Fundamentals of Laparoscopic Surgery training and testing: a benchmark for patient safety. *Surg Endosc*. 2010;24:616-23 2009;Aug 18. [Epub ahead of print]
  63. Raman A#, Sternbach J, #Babajide A,# Sheth K, **Schwartzberg SD**. When does testing for GERD become cost effective in an integrated health network? *Surg Endosc*. 2010;24:1245-9 *Surg Endosc* 2009; Dec 9. [Epub ahead of print]
  64. Sankaranarayanan G, Lin H, Arikatla VS, Mulcare M\*, Zhang L, Derevianko A, Lim R, Fobert D, Cao C, **Schwartzberg SD**, Jones DB, De S. Preliminary face and construct validation study of a virtual basic laparoscopic skill trainer. *J Laparoendosc Adv Surg Tech A*. 2010 Mar;20:153-7.
  65. Logan CA, Wu RY, Mulley D, Smith PC, **Schwartzberg SD**. Coordinated clinical and

- financial analysis as a powerful tool to influence vendor pricing. *Health Care Manage Rev.* 2010;35:276-82.
66. Chu T, # Chandhoke RA, # Smith PC, **Schwartzberg SD** The impact of surgeon choice on the cost of performing laparoscopic appendectomy. *Surg Endosc.* 2011 Apr;25(4):1187-91. [Epub ahead of print]
  67. Zhou G, Tse S; Derevianko Jones DJ, **Schwartzberg, SD**, Cao CG Effect of Haptic Feedback in Laparoscopic Surgery Skill Acquisition *Surg Endosc.* 2012 Apr;26(4):1128-34. Epub 2011 Nov 2.
  68. Feldman LS, Fuchshuber, P, Jones DJ, Mischna J, **Schwartzberg SD** Surgeons Don't Know what they Don't Know about the Safe Use of Surgical Energy. *Surgical Endoscopy Surg Endosc.* 2012 Apr 27 [Epub ahead of print] (erratum *Surg Endosc.* 2013 Jan;27(1):349)
  69. Devarajan K, # Rogers L, # Smith, P **Schwartzberg, SD**, Aligning Incentives in the Management of Inguinal Hernia: The Impact of the Payment Model. *Journal of the American College of Surgeons Surg.* 2012 Sep;215(3):356-60
  70. Perez RS, Skinner, A, Weyhrauch P, James Niehaus J, Lathan C, **Schwartzberg SD**, Cao. Prevention of Surgical Skill Decay *Military Medicine* 2013; 178:76-86.
  71. Sankaranarayanan G, Matthes K, Nemani A, Ahn W, Kato M, Jones DB, **Schwartzberg S**, De S. Needs analysis for developing a virtual-reality NOTES simulator. *Surg Endosc.* 2012 Dec 18. [Epub ahead of print]
  72. Zhang L, Grosdemouge C, Arikatla VS, Ahn W, Sankaranarayanan G, De S, Jones D, **Schwartzberg S**, Cao CG. *Work*; 2012;41 Suppl 1:2288-92.
  73. Arikatla VS, Sankaranarayanan G, Ahn W, Chellali A, De S, Caroline GL, Hwabejire J, Demoya M, **Schwartzberg S**, Jones DB Face and construct validation of a virtual peg transfer simulator. *Surg Endosc.* 2012 Dec 14. [Epub ahead of print]
  74. Zhang L, Sankaranarayanan G, Arikatla VS, Ahn W, Grosdemouge C, Rideout JM, Epstein SK, De S, **Schwartzberg SD**, Jones DB, Cao CG. Characterizing the learning curve of the VBLaST-PT<sup>®</sup> (Virtual Basic Laparoscopic Skill Trainer). *Surg Endosc.* 2013 Apr 10. [Epub ahead of print]
  75. Mentis HM, \* Chellali A\*, **Schwartzberg SD** Learning to See the Body: Supporting Instructional Practices in Laparoscopic Surgical Procedures Association for Computing Machinery Digital Library (ACM DL) accepted January 2014
  76. Olasky J, Chellali A, Sankaganesh G, Zhang L, Miller A, De S; Jones DB; **Schwartzberg SD**, Schneider B; Cao C. Effects of Sleep Hours and Fatigue on Performance in Laparoscopic Surgery Simulator *Surgical Endoscopy* accepted February 2014
  77. Nemani A, Sankaranarayanan G, Olasky JS, Adra S, Roberts KE, Panait L, **Schwartzberg SD**, Jones DB, De S A comparison of NOTES transvaginal and laparoscopic cholecystectomy procedures based upon task analysis. *Surg Endosc.* 2014 Mar 12. [Epub ahead of print]
  78. Chellali AU\*, Zhang L, Sankaranarayanan G, Arikatla VS, Ahn W, Derevianko A, **Schwartzberg SD**, Jones DB, Demoya M, Cao CG. Validation of the VBLaST peg transfer task: a first step toward an alternate training standard. *Surg Endosc.* 2014 Apr 26. [Epub ahead of print]
  79. **Schwartzberg, SD**, Scott, DJ, Jones, DB, McKinley SK#, Castrillion J, Hunter TD, LMBrun M. Three-fold increased bile duct injury rate is associated with less surgeon experience in an insurance claims database Subtitle: More rigorous training in biliary surgery may be needed. *Surg Endosc.* 2014 Jun 6. [Epub ahead of print]
  80. Chellali A,\* **Schwartzberg SD**, Jones DB, Romanelli J, Miller A, Rattner D, Roberts KE,



- Cao CG Toward scar-free surgery: an analysis of the increasing complexity from laparoscopic surgery to NOTES. *Surg Endosc.* 2014 Jun 6. [Epub ahead of print]
81. Madani A, Watanabe Y, Vassiliou MC, Fuchshuber P, Jones DB, **Schwartzberg SD**, Fried GM, Feldman LS. Impact of a hands-on component on learning in the Fundamental Use of Surgical Energy™ (FUSE) curriculum: a randomized-controlled trial in surgical trainees. *Surg Endosc.* 2014 May 2. [Epub ahead of print]
  82. Chellali A,\* Ahn W, Sankaranarayanan G, Flinn JT, **Schwartzberg SD**, Jones DB, De S, Cao CG. Preliminary evaluation of the pattern cutting and the ligating loop virtual laparoscopic trainers. *Surg Endosc.* 2014 Aug 27. [Epub ahead of print]
  83. Watanabe Y, Matt Ritter E, **Schwartzberg SD**, Korndorffer JR Jr, Scott DJ, Okrainec A, Bilgic E, Kaneva PA, O'Donnell MT, Feldman LS, Fried GM, Vassiliou MC Camera navigation and cannulation: validity evidence for new educational tasks to complement the Fundamentals of Laparoscopic Surgery Program. *Surg Endosc.* 2014 Jul 18. [Epub ahead of print]
  84. **Schwartzberg SD**, Dorozhkin D, Sankaranarayanan G, Matthes K, Jones DB, De S. [Natural orifice transluminal endoscopic surgery \(NOTES\): emerging trends and specifications for a virtual simulator.](#) *Surg Endosc.* 2015 Apr 4. [Epub ahead of print]
  85. Gupta S, Boehme J, Manser K, Dewar J, Miller A, Siddiqui G, **Schwartzberg SD**. Does Wearable Medical Technology With Video Recording Capability Add Value to On-Call Surgical Evaluations? *Surg Innov.* 2016 Oct;23(5):498-504.
  86. Nemani A, Ahn W, Gee D, Intes X, **Schwartzberg S**, Yucel M, De S. Objective Surgical Skill Differentiation for Physical and Virtual Surgical Trainers via Functional Near-Infrared Spectroscopy. *Stud Health Technol Inform.* 2016;220:256-61.
  87. Pan JJ, Ahn W, Dargar S, Halic T, Li BC, Sankaranarayanan G, Roberts K, **Schwartzberg S**, De S. Graphic and haptic simulation for transvaginal cholecystectomy training in NOTES. *J Biomed Inform.* 2016 Apr;60:410-21. doi: 10.1016/j.jbi.2016.03.005. Retraction in: *J Biomed Inform.* 2016 Aug;62:278
  88. Boehme J, McKinley S, Michael Brunt L, Hunter TD, Jones DB, Scott DJ, **Schwartzberg SD**. Patient comorbidities increase postoperative resource utilization after laparoscopic and open cholecystectomy. *Surg Endosc.* 2016 Jun;30(6):2217-30
  89. Robinson TN, Olasky J, Young P, Feldman LS, Fuchshuber PR, Jones SB, Madani A, Brunt M, Mikami D, Jackson GP, Mischna J, **Schwartzberg S**, Jones DB. Fundamental Use of Surgical Energy (FUSE) certification: validation and predictors of success. *Surg Endosc.* 2016 Mar;30(3):916-24.
  90. Nurudeen SM, Kwakye G, Berry WR, Chaikof EL, Lillemoe KD, Millham F, Rubin M, **Schwartzberg S**, Shamberger RC, Zinner MJ, Sato L, Lipsitz S, Gawande AA, Haynes AB. Can 360-Degree Reviews Help Surgeons? Evaluation of Multisource Feedback for Surgeons in a Multi-Institutional Quality Improvement Project. *J Am Coll Surg.* 2015 Oct;221(4):837-44
  91. Gregory PJ, Robbins B, Schwartzberg SD, Harmon L Leadership development in a professional medical society using 360-degree survey feedback to assess emotional intelligence. *Surg Endosc.* 2016 Dec 30
  92. Dorozhkin D, Olasky J, Jones DB, Schwartzberg SD, Jones SB, Cao CG, Molina M, Henriques S, Wang J, Flinn J, De S; SAGES FUSE Committee. OR fire virtual training simulator: design and face validity. *Surg Endosc.* 2016 Dec 30
  93. Nemani A, Ahn W, Cooper C, Schwartzberg S, De S. Convergent validation and transfer of learning studies of a virtual reality-based pattern cutting simulator. *Surg Endosc.* 2017 Aug 15.

94. Bilgic E, Kaneva P, Okrainec A, Ritter EM, Schwaitzberg SD, Vassiliou MC. Trends in the Fundamentals of Laparoscopic Surgery® (FLS) certification exam over the past 9 years. *Surg Endosc.* 2017 Oct 24
95. Linsk AM, Monden KR, Sankaranarayanan G, Ahn W, Jones DB, De S, Schwaitzberg SD, Cao CGL Validation of the VBLaST pattern cutting task: a learning curve study. *Surg Endosc.* 2017 Oct 19.
96. Boehme J,\* McKinley S\*, Michael Brunt L, Hunter TD, Jones DB, Scott DJ, **Schwaitzberg SD.** Patient comorbidities increase postoperative resource utilization after laparoscopic and open cholecystectomy. *Surg Endosc.* 2016 Jun;30(6):2217-30. doi: 10.1007/s00464-015-4481-6. Epub 2015 Oct 1. PMID: 26428201
97. **Schwaitzberg SD,** Roberts K, Romanelli JR, Desilets DJ, Earle D, Horgan S, Swanstrom L, Hungness E, Soper N, Kochman ML; Natural Orifice Surgery Consortium for Assessment and Research® (NOSCAR®) Clinical Trial Group. [The NOVEL trial: natural orifice versus laparoscopic cholecystectomy-a prospective, randomized evaluation.](#) *Surg Endosc.* 2017 Dec 7. doi: 10.1007/s00464-017-5955-5. [Epub ahead of print] PMID: 29218667
98. Nemani, A., Cooper, C., Intes, X., De, S. and **Schwaitzberg, S.D.**, 2017. Noninvasive Brain Imaging Demonstrates that Surgical Skills Transfer from Training Simulators to Ex Vivo Models. *Journal of the American College of Surgeons*, 225(4), p.e22.
99. Dombek M, Lopez CA, Han Z, Lungarini A, Santos N, **Schwaitzberg S,** Cao C, Jones DB, De S, Olasky J FUSE certification enhances performance on a virtual computer based simulator for dispersive electrode placement. *Surg Endosc.* 2018 Feb 13. doi: 10.1007/s00464-018-6095-2
100. Szold A, Miller A, Lilach N, Botero-Anug AM, Miller R, **Schwaitzberg SD** A preclinical animal study of a novel, simple, and secure duct and vessel occluder for laparoscopic surgery. *Surg Endosc.* 2018 Jan 16. doi: 10.1007/s00464-018-6052-0
101. Nemani A, Kruger U, Cooper CA, **Schwaitzberg SD,** Intes X, De S. Objective assessment of surgical skill transfer using non-invasive brain imaging. *Surg Endosc.* 2018 Oct 17. doi: 10.1007/s00464-018-6535-z. [Epub ahead of print] PMID: 30334166
102. Fu Y, Cavuoto L, Qi D, Panneerselvam K, Yang G, Artikala VS, Enquobahrie A, De S, **Schwaitzberg SD.** Validation of a virtual intracorporeal suturing simulator. *Surg Endosc.* 2018 Oct 17. doi: 10.1007/s00464-018-6531-3. [Epub ahead of print] Erratum in: *Surg Endosc.* 2018 Dec 5. PMID: 30334151
103. Arikatla V, Horvath S, Fu Y, Cavuoto L, De S, **Schwaitzberg S,** Enquobahrie A Development and face validation of a virtual camera navigation task trainer. *Surg Endosc.* 2018 Oct 15. doi: 10.1007/s00464-018-6476-6. [Epub ahead of print] PMID: 30324462
104. Nemani A, Yücel MA, Kruger U, Gee DW, Cooper C, **Schwaitzberg SD,** De S, Intes X. Assessing bimanual motor skills with optical neuroimaging. *Sci Adv.* 2018 Oct 3;4(10):eaat3807. doi: 10.1126/sciadv.aat3807. eCollection 2018 Oct. PMID: 30306130
105. Fu Y, Cavuoto L, Qi D, Panneerselvam K, Arikatla VS, Enquobahrie A, De S, **Schwaitzberg SD.** Characterizing the learning curve of a virtual intracorporeal suturing simulator VBLaST-SS© *Surg Endosc.* 2019 Sep 3. doi: 10.1007/s00464-019-07081-6. [Epub ahead of print] PMID: 31482354

106. Hoffman AB, Myneni AA, Orom H, **Schwartzberg SD**, Noyes K. Disparity in access to bariatric surgery among African-American men. *Surg Endosc*. 2019 Aug 5. doi: 10.1007/s00464-019-07034-z. [Epub ahead of print] PMID: 31385077
107. Noyes K, Myneni AA, **Schwartzberg SD**, Hoffman AB. Quality of MBSAQIP data: bad luck, or lack of QA plan? *Surg Endosc*. 2019 Jun 12. doi: 10.1007/s00464-019-06884-x. [Epub ahead of print] PMID: 31190225
108. Gao Y, Kruger U, Intes X, Schwartzberg S, De S. A machine learning approach to predict surgical learning curves *Surgery*. 2020 Feb;167(2):321-327. doi: 10.1016/j.surg.2019.10.008. Epub 2019 Nov 18
109. Gao Y, Yan P, Kruger U, Cavuoto L, Schwartzberg S, De S, Intes X. Functional brain imaging reliably predicts bimanual motor skill performance in a standardized surgical task. *IEEE Trans Biomed Eng*. 2020 Aug 5;PP. doi: 10.1109/TBME.2020.3014299. PMID: 32755850
110. Hu J, Lee R, Mullin S, Schwartzberg S, Harmon L, Gregory P, Elkin PL. How physicians change: Multisource feedback driven intervention improves physician leadership and teamwork. *Surgery*. 2020 Aug 6:S0039-6060(20)30368-8. doi: 10.1016/j.surg.2020.06.008. PMID: 32773278
111. Gao Y, Cavuoto L, Schwartzberg S, Norfleet JE, Intes X, De S. The Effects of Transcranial Electrical Stimulation on Human Motor Functions: A Comprehensive Review of Functional Neuroimaging Studies. *Front Neurosci*. 2020 Jul 24;14:744. doi: 10.3389/fnins.2020.00744. eCollection 2020. PMID: 32792898

(CLINICAL REVIEWS)

112. **Schwartzberg SD**, Pokorny WJ, Thurston RS, McGill CW, Athey PA, Harberg FJ. Psoas abscess in children. *J Pediatr Surg* 1985;20:339-342.
113. **Schwartzberg SD**, Harris BH. Progress in aeromedical systems. In: Buhler, editor. *Airmed*. Zurich. Springer-Verlag.
114. **Schwartzberg SD**, Harris BH. The epidemiology of pediatric trauma. *Emergency Care Quarterly* 1987;3.
115. Murphy RE, **Schwartzberg SD**, Harris BH. Preparing the emergency department in pediatric trauma. *Emergency Care Quarterly* 1987;3:1.
116. Hart MA, Haynes D, **Schwartzberg SD**, Harris BH. Air transport of the pediatric trauma patient. *Emergency Care Quarterly* 1987;3:1.
117. Harris BH, Latchaw LA, Murphy RE, **Schwartzberg SD**. The crucial hour. *Pediatr Ann* 1987;16:301-304.
118. Harris BH, Latchaw LA, Murphy RE, **Schwartzberg S**. A protocol for pediatric trauma receiving units. *J Pediatr Surg* 1989;24:419-422.
119. Silva WE, **Schwartzberg SD**, Downs MJ. Preparation for mass-combat casualties. *Emergency Care Quarterly* 1992;7:1-14.
120. Sindhi R, Schieb R, **Schwartzberg SD**. Bowel obstruction in AIDS patients. *Complications in Surgery* 1993;12:15-18
121. Iafrati M, Yarnell R, **Schwartzberg SD**. Gasless laparoscopy in pregnancy. *J Laparoendosc Surg* 1995;5:127-130.
122. **Schwartzberg SD**. Cytokines: experimental and clinical studies. *Trauma Quarterly* 1995;12:1-7
123. Iafrati M, Fabry S, Lee YM, **Schwartzberg SD**. Combined Endolaparoscopic Approach to Removal of Foreign Bodies. *Gastrointest Endosc* 1996;43:67-70.

124. Lantis JC,\* Grabowy D, **Schwartzberg SD**. The clinical uses of microwaves in medicine. *Surg Endosc* 1998;12:170-176.
125. Ralston S, **Schwartzberg SD**. Liver Hematoma and Hepatic Rupture in Pregnancy. *Seminars in Perinatology* 1998; 22:141-148.
126. Schwartzberg SD. **Percutaneous Dilatational Tracheostomy versus Standard Tracheostomy** *J Bronchol* 1998;5:257-260.
127. Erfanian K,# **Schwartzberg SD**. The use of closed suction in the management of necrotizing fasciitis. *Contemporary Surg* 1999;54:76-81.
128. **Schwartzberg SD**. Voice-activated technologies influence care. *Progress Notes* 2000;9:5-6.
129. **Schwartzberg SD**. Imaging in laparoscopic surgery. *Seminars in Laparoscopic Surgery* 2001:8:3-11.
130. **Schwartzberg SD**. Diagnostic laparoscopy. *Seminars in Laparoscopic Surgery* 2002;9:10-23.
131. NOSCAR Joint Committee on NOTES, Hawes RH, Rattner DW, Fleischer D, Gostout CJ, Kalloo A, Kochman M, Marohn M, Ponsky J, Rothstein R, **Schwartzberg S**, Smith CD, Swanstrom L, Talamini M, Thompson CC. NOTES: where have we been and where are we going? *Gastrointest Endosc* 2008;67:779-780. authorized dual printing in : *Surg Endosc*. 2008;22:1143-5.
132. Herron DM, Marohn M, The SAGES-MIRA Robotic Surgery Consensus Group (Advincula A Aggarwal S, Palese M, Broderick T, Broeders I, Byer A, Curet M, Earle D, Giulianotti P, Grundfest W, Hashizume M, Kelley W, Lee D, Weinstein G, McDougall E, MeehanJ, Melvin S, Menon M, Oleynikov D, Patel V, Satava R, **Schwartzberg S**). A consensus document on robotic surgery. *Surg Endosc* 2008;22:313 – 325.
133. **Schwartzberg SD**, Godinez C, Kavic SM, Sutton E, Worthington RB, Colburn B, Park A. Training and working in high-stakes environments: lessons learned and problems shared by aviators and surgeons. *Surg Innov*. 2009;2:187-95
134. Goldfarb M,\$ Brower S, **Schwartzberg SD**. Minimally invasive surgery and cancer: controversies part 1.*Surg Endosc* 2010;24:304-34. Epub 2009 Jul 2.
135. **Schwartzberg, SD** The Potential Use of Radiofrequency Tags in Surgery. *Health Innovations in Context* <http://www.hinnovic.org/potential-uses-of-radiofrequency-identification-tags-in-surgery/> October 20, 2009
136. Mahoney B, #**Schwartzberg SD**, Newton ER, *Trauma and Pregnancy* <http://emedicine.medscape.com/article/435224-overview> Jan 2, 2010
137. Society of American Gastrointestinal and Endoscopic Surgeons, Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) statement on the relationship between professional medical associations and industry. *Surg Endosc* 2010;24: 742-744 \*\*Chaired writing committee
138. **Schwartzberg SD**: Identifying and overcoming the potential barriers to the adoption of natural orifice transluminal endoscopic surgery. *Asian Journal of Endoscopic Surgery* 2010;3:53-59
139. Gould J, Ellsmere J, Fanelli R, Hutter M, Jones S, Pratt J, Schauer P, Schirmer B, **Schwartzberg S**, Jones DB. Panel report: best practices for the surgical treatment of obesity. *Surg Endosc*. 2010; Dec 7. [Epub ahead of print]
140. Rattner DW, Hawes R, **Schwartzberg S**, Kochman M, Swanstrom L. The Second SAGES/ASGE White Paper on natural orifice transluminal endoscopic surgery: 5 years of progress. *Surg Endosc*. 2011 Feb 27. [Epub ahead of print]
141. **Schwartzberg SD**. Regulatory and reimbursement issues regarding endoscopic

- bariatric procedures. *Gastrointest Endosc Clin N Am*. 2011;2:335-42.
142. Ghosh A, Hirsh D, Orgur B, **Schwaitzberg SD**. Teaching Medical Students about Cancer Impact through a Longitudinal Surgical Experience: A Case Study. *Teaching and Learning in Medicine*. *Teach Learn Med*. 2012 Apr;24(2):158-62.
  143. **Schwaitzberg, SD**. You Must be the Change You Wish to See in the World. society of American Gastrointestinal and Endoscopic Surgeons Presidential Address 2012 *Surg Endosc*. 2012 Oct;26(10):2701-10. Epub 2012 Sep 7
  144. **Schwaitzberg, SD**, Hawes, R Ratner, D , Kochman M. Novel challenges of multi-society investigator initiated studies: a paradigm shift for technique and technology evaluation. *Surgical Endoscopy Epub* 11 June 2013
  145. Ross S, Rosemurgy A, Albrink M, Choung E, Dapri G, Gallagher S, Hernandez J, Horgan S, Kelley W, Kia M, Marks J, Martinez J, Mintz Y, Oleynikov D, Pryor A, Rattner D, Rivas H, Roberts K, Rubach E, **Schwaitzberg S**, Swanstrom L, Sweeney J, Wilson E, Zemon H, Zundel N. Consensus statement of the consortium for LESS cholecystectomy. *Surg Endosc*. 2012 Aug 31. [Epub ahead of print]
  146. Berci G, Hunter J, Morgenstern L, Arregui M, Brunt M, Carroll B, Edey M, Fermelia D, Ferzli G, Greene F, Petelin J, Phillips E, Ponsky J, Sax H, **Schwaitzberg S**, Soper N, Swanstrom L, Traverso W. Laparoscopic cholecystectomy: first, do no harm; second, take care of bile duct stones. *Surg Endosc*. 2013 Jan 26. [Epub ahead of print]
  147. Sankaranarayanan G, Resapu RR, Jones DB, Schwaitzberg S, De S. Common uses and cited complications of energy in surgery. *Surg Endosc*. 2013 Apr 23.
  148. Feldman LS ,Brunt LM, FuchshuberP Jones DB, Jones SB, Mischna J BA 6, Malcolm G Munro , MG. Rozner RA , **Schwaitzberg SD** Determining the Emphasis for the Fundamental Use of Surgical Energy™ (FUSE) Certification Examination : Focus on Safety *Surg Endosc* -accepted June 2013.
  149. Feldman LS, Brunt LM, Fuchshuber P, Jones DB, Jones SB, Mischna J, Munro MG, Rozner MA, **Schwaitzberg SD**; for the SAGES FUSE™ Committee. Rationale for the Fundamental Use of Surgical Energy™ (FUSE) curriculum assessment: focus on safety *Surg Endosc*. 2013 Jul 17.
  150. Fuchshuber P, Jones S, Jones D, Feldman LS, **Schwaitzberg S**, Rozner MA.Ensuring Safety in the Operating Room: The "Fundamental Use of Surgical Energy" (FUSE) Program. *Int Anesthesiol Clin*. 2013 Fall;51(4):65-80.
  151. Allen BF, Jones DB, **Schwaitzberg SD**, Suvaranu D Survey-based analysis of fundamental tasks for effective use of electro-surgical instruments. *Surg Endosc*. 2013 Nov 20. [Epub ahead of print]
  152. Siracuse JJ, Benoit E\$, Burke J, Carter S, **Schwaitzberg SD**. Development of a web-based surgical booking and informed consent system to reduce the potential for error and improve communication. *Jt Comm J Qual Patient Saf*. 2014 Mar;40(3):126-33  
Selected for AHRQ Health Care Innovations Exchange profile . September 24, 2014 <http://www.innovations.ahrq.gov/content.aspx?id=4176>
  153. Allen BF, **Schwaitzberg SD**, Jones DB, De S. Toward the development of a virtual electro-surgery training simulator. *Stud Health Technol Inform*. 2014;196:11-3.
  154. Mckinely SK#, Brunt LM, **Schwaitzberg, SD**. Prevention of Bile Duct Injury: The Case for Incorporating Educational Theories of Expertise" *Surgical Endoscopy Surg Endosc*. 2014 Dec;28(12):3385-91,
  155. Hammerly ME Harmon, L, **Schwaitzberg SD**. Good to Great: Using 360Degree

- Feedback to Improve Physician Emotional Intelligence . *Journal of Healthcare Management* 2014 59(5) 354-366  
 Winner of Edgar Hayhow Award – American College of Healthcare Executives 2016
156. Olasky J, Sankaranarayanan G, Seymour NE, Magee JH, Enquobahrie A, Lin MC, Aggarwal R, Brunt LM, **Schwartzberg SD**, Cao CG, De S, Jones DB: Identifying Opportunities for Virtual Reality Simulation in Surgical Education: A Review of the Proceedings from the Innovation, Design, and Emerging Alliances in Surgery (IDEAS) Conference: VR Surgery. *Surg Innov.* 2015 Apr 29.[Epub ahead of print]
  157. Ghosh AC, Hirsh D, **Schwartzberg S**, Ogur B. Bearing witness: a longitudinal integrated cancer care curriculum. *Clin Teach.* 2016 Feb 4. doi: 10.1111/tct.12498
  158. **Schwartzberg SD**. Financial modeling of current surgical robotic system in outpatient laparoscopic cholecystectomy: how should we think about the expense? *Surg Endosc.* 2016 May;30(5):2082-5.
  159. Dorozhkin D, Olasky J, Jones DB, Schwartzberg SD, Jones SB, Cao CG, Molina M, Henriques S, Wang J, Flinn J, De S; SAGES FUSE Committee OR fire virtual training simulator: design and face validity. *Surg Endosc.* 2016 Dec 30. doi: 10.1007/s00464-016-5379-7. [Epub ahead of print] PMID: 28039649
  160. Gregory PJ, Robbins B, Schwartzberg SD, Harmon L. Leadership development in a professional medical society using 360-degree survey feedback to assess emotional intelligence. *Surg Endosc.* 2016 Dec 30. doi: 10.1007/s00464-016-5386-8. [Epub ahead of print] PMID: 28039648
  161. Ahn W, Dorozhkin D, **Schwartzberg S**, Jones DB, De S. Developing Modularized Virtual Reality Simulators for Natural Orifice Transluminal Endoscopic Surgery (NOTES). *Stud Health Technol Inform.* 2016;220:1-4. PMID: 27046543
  162. Ghosh AC, Hirsh D, **Schwartzberg S**, Ogur B. Bearing witness: a longitudinal integrated cancer care curriculum. *Clin Teach.* 2017 Apr;14(2):95-99. doi: 10.1111/tct.12498. Epub 2016 Feb 4. PMID: 26848044
  163. Zhao JY, Kessler EG, Yu J, Jalal K, Cooper CA, Brewer JJ, **Schwartzberg SD**, Guo WA. J Impact of Trauma Hospital Ransomware Attack on Surgical Residency Training. *Surg Res.* 2018 Dec; 232:389-397. doi: 10.1016/j.jss.2018.06.072. Epub 2018 Jul 19. PMID: 30463746
  164. Dombek M, Lopez CA, Han Z, Lungarini A, Santos N, **Schwartzberg S**, Cao C, Jones DB, De S, Olasky J. FUSE certification enhances performance on a virtual computer based simulator for dispersive electrode placement. *Surg Endosc.* 2018 Aug;32(8):3640-3645. doi: 10.1007/s00464-018-6095-2. Epub 2018 Feb 13. PMID: 29442242
  165. Oh KJ, Gajdos C, Savulionyte GE, Hennon M, Schwartzberg SD, Nader ND. Failure to Rescue from Surgical Complications After Trans-thoracic and Trans-hiatal Esophageal Resection: an ACS-NSQIP Study. *J Gastrointest Surg.* 2020 Sep 18. doi: 10.1007/s11605-020-04797-y. PMID: 32948959
  166. F Narvaez JR, Cooper C, Brewer JJ, Schwartzberg SD, Guo WA. Do We "Do No Harm" in the Management of Acute Cholecystitis in COVID-19 Patients? *Am Surg.* 2020 Jul;86(7):748-750. doi: 10.1177/0003134820939881. Epub 2020 Jul 15. PMID: 32683947

(CLINICAL COMMUNICATIONS)

167. **Schwartzberg SD**, Bradshaw MW, Williams TW. Pyoderma Gangrenosum. *Arch*

- Surg 1982;117:363-367.
168. **Schwartzberg SD**, Kahlil K. Isolated traumatic aortic valvular insufficiency with rapid pulmonary deterioration. Arch Surg 1985;120:971-973.
  169. Harris BH, **Schwartzberg SD**. ED, forward. Emergency Care Quarterly 1987;1:1.
  170. Bergman KS, **Schwartzberg SD**, Harris BH. Pregnancy following repair of vaginal atresia. J Pediatr Surg 1988;23:1063-1064.
  171. **Schwartzberg SD**. Recurrent hernia without peritoneal defect. Surg Endosc 1994;8:1358-1359.
  172. **Schwartzberg SD**. Use of Microlaparoscopy in diagnostic procedures: a case report. Surg Laparosc Endosc 1995;5:407-409.
  173. Brady S, Leachan RM, Dayal Y, **Schwartzberg SD**, Tischler A. A composite pheochromocytoma/ganglioneuroma of the adrenal gland associated with men2a. Am J Pathol 1997;21:102-108.
  174. Wallace J, **Schwartzberg SD**, Miller K. Sometimes it really is appendicitis: case of a CML patient with acute appendicitis. Ann Hematol 1998;77:61-64.
  175. Lantis JC, \***Schwartzberg SD**. Cutting and coagulation mechanisms in surgery. Chirurgia International 1998;5:6-8.
  176. **Schwartzberg SD**. Micro-instrumentation ideal for thyroid surgery. Progress Notes 1998;7:7-8.
  177. Lantis JC, \***Schwartzberg SD**. Laparoscopic injury to the ilioinguinal nerve. J Laparoendosc Adv Surg Tech A 1999;9:285-289.
  178. Libby ED, Taylor J, Mysh D, **Schwartzberg SD**. Combined laparoendoscopic pseudocyst drainage. Gastrointest Endosc 1999;50:416-419.
  179. Medeiros, LE, Keyser, EJ, Barkun, JS, Sigman, HH, Feldman, LS, Fowler, DL, Pomp, A, Schirmer, BD, **Schwartzberg, S** Sillin, LF, Arnold, W, Fried, GM. Multicenter evaluation of an objective scoring system for laparoscopic cholecystectomy. Gastroenterology 2000;118: 1522
  180. Bedri S, Efranian K#, **Schwartzberg SD**, Tischler A. Mature cystic teratoma involving the adrenal gland. Endocr Pathol 2002;13:59-64.
  181. Schumann R, Joseph N, Zabala L, Leachan R., **Schwartzberg SD**. Hypertensive crisis inducing rhabdomyolysis during laparoscopic resection of a large pheochromocytoma. J Clin Anesth 2003;15:540-544.
  182. Diwadkar G#, **Schwartzberg SD**. An extrahepatic biliary anomaly. J Laparoendosc Adv Surg Tech A 2003;13:41-43.
  183. Herring A,# Graubard MB, Gan SI, **Schwartzberg SD**. Mucinous cystadenocarcinoma of the pancreas during pregnancy. Pancreas 2007;34:470-473.
  184. **Schwartzberg SD**. Not a moment to lose: Shapiro Simulation Center CRICO/RMF Forum 2008;26:17.
  185. **Schwartzberg, SD**. The latest in blood vessel cutting and sealing. Outpatient Surgery Magazine 2008;15:65-69.
  186. Bischoff K#, López C, Shaffer K, **Schwartzberg S**. Colorectal adenocarcinoma presenting as abdominal wall cellulitis. Radiology Case Reports 2008;3:204 (on line)
  187. Fuchshuber PR, **Schwartzberg SD**, Rabrenovich V, Feldman LS, Bougère-Jones D. Brève mise à jour sur la sécurité et les données chirurgicales : les programmes NSQIP et FUSE Brief Update on Surgical Safety and Outcomes: NSQIP and FUSE e-mémoires de l'Académie Nationale de Chirurgie, 2014, 13 (4) : 064-069
  188. Fuchshuber PR, Robinson TN, Feldman LS, Jones DB, **Schwartzberg SD**. The SAGES FUSE program: bridging a patient safety gap. Bull Am Coll Surg. 2014



SEP;99(9):18-27. No abstract available.

189. Switzer N, Dixon E, Tinmouth J, Bradley N, Vassiliou M, **Schwaitzberg S**, Gomes T, Ellsmere J, de Gara C. [Endoscopy in Canada: Proceedings of the National Roundtable](#). Can J Gastroenterol Hepatol. 2015 Apr 17. [Epub ahead of print]
190. Taylor GH, Schwaitzberg SD. The successful use of dronabinol for failure to thrive secondary to intestinal dysmotility. Int J Surg Case Rep. 2015;11:121-123. doi: 10.1016/j.ijscr.2015.04.036. Epub 2015 May 5.
191. Jones SB, Munro MG, Feldman LS, Robinson TN, Brunt LM, **Schwaitzberg SD**, Jones DB, Fuchshuber PR. Fundamental Use of Surgical Energy (FUSE): An Essential Educational Program for Operating Room Safety. Perm J. 2017;21. doi: 10.7812/TPP/16-050. Epub 2017 Jan 13.
192. Fuchshuber P, Schwaitzberg S, Jones D, Jones SB, Feldman L, Munro M, Robinson T, Purcell-Jackson G, Mikami D, Madani A, Brunt M, Dunkin B, Gugliemi C, Groah L, Lim R, Mischna J, Voyles CR The SAGES Fundamental Use of Surgical Energy program (FUSE): history, development, and purpose.. Surg Endosc. 2017 Dec 7. doi: 0.1007/s00464-017-5933-y. [Epub ahead of print] PMID: 29218661
193. Gao, S., 2017. Prof. Steven **Schwaitzberg**: the future of laparoscopic surgery is bright. *Annals of Laparoscopic and Endoscopic Surgery*, 2(1).

## 2. NON-PEER-REVIEWED JOURNALS FOR A PROFESSIONAL AUDIENCE:

### EDUCATIONAL MATERIAL (COURSE SYLLABI):

1. **Schwaitzberg SD**. Surgeon in the Digital Age: Video Editing for Surgeons 2002, 2003. SAGES IPEG Post Graduate Course; 2005.
2. **Schwaitzberg SD**. Surgeon in the Digital Age: PDA for Surgeons 2004. SAGES Post Graduate Course.
3. **Schwaitzberg SD**. Surgeon in the Digital Age: Understanding Operating Room Video 2005; SAGES Post Graduate Course.
4. Pories S, Bard T, Bell S, Brodsky D, Burns M, Catic A, Fazio S, Fisher J, Frontado L, Garfield J, Huang G, Peters A, Pian-Smith M, Quan S, **Schwaitzberg S** Borus J. A Writer's Toolkit. MedEdPORTAL, Association of American Medical Colleges; 2012. Available from: [www.mededportal.org/publication/9238](http://www.mededportal.org/publication/9238)

### EDUCATIONAL MATERIAL (ELECTRONIC):

1. **Schwaitzberg, SD** Pancreatic Pseudocyst , Pancreatic Necrosis Surgical Council on Resident Education (SCORE) Modules ( peer reviewed) The American Board of Surgery 2011

## 3. CONFERENCE PROCEEDINGS:

1. Durville, FM, Rediker, RR Cho, G, Connolly, RJ, **Schwaitzberg, SD**, Lantis J. Portable semiconductor laser system to stop internal bleeding. IEEE proceedings of Vertical-Cavity Lasers, Technologies for a Global Information Infrastructure, WDM Components Technology, Advanced Semiconductor Lasers and Applications, Gallium Nitride Materials, Processing, and Development 1997:5-6
2. Durville FM, Rediker RH, Connolly RJ, **Schwaitzberg SD**, Lantis LC. Diode laser for abdominal tissue cauterization. Proc Soc Photo Opt Instrum Eng 1999;3590:420.



3. Sha D, Connolly R, **Schwartzberg SD**, Levine A. The development of non-sticking, passively cooled electrosurgical instruments. Proceedings of the IEEE 27th Annual Northeast Bioengineering Conference 2001:11-12.
4. Cao CGL, Webster J, Perreault, J, **Schwartzberg S**, Rogers G. Visually perceived force feedback in simulated robotic surgery. Proceedings of the 47<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society 2003;1466-1470.
5. Waxberg S, Goodell K\*, Avgerinos D, **Schwartzberg S**, Cao CGL. Evaluation of physical versus virtual surgical simulators. Proceedings of the 48<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society 2004;1675-1679.
6. Waxberg SL, **Schwartzberg SD**, Cao CGL. Effects of Videogame Performance on Laparoscopic Skills Acquisition. Proceedings of the 49<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society —2005:1047-1052
7. Bañez J, CGL Cao, **SD Schwartzberg**, S Caro. Modeling patients for optimized port placement in robotic-assisted surgery. Proceedings of the ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis ESDA 2012 Nantes, France
8. Nemani, A., Yucel, M.A., Kruger, U., Gee, D.W., Cooper, C.A., Schwartzberg, S.D., De, S. and Intes, X., 2017. Assessing bimanual motor skills with optical neuroimaging. *bioRxiv*, p.204305.

4. CHAPTER, TEXTBOOK, MANUSCRIPT CONTRIBUTIONS TO AND/OR IN BOOKS:

BOOK CHAPTERS

1. Harris BH, **Schwartzberg SD**. The evolution of the care of the injured child. In: Nyhus L, editor. Surgery Journal. Norwalk: Appleton & Lange, 1988, p. 1-15.
2. **Schwartzberg SD**, Peterson MB. Sepsis and the emergency room physician. In: Principles and Practice of Emergency Medicine. Philadelphia: Lea & Fibinger, 1992, p. 403-414.
3. Sachs B, **Schwartzberg SD**. Lumbosacral sacral discectomy and spinal fusion. In: Regan J, McAfee PC, Mack MJ, editors. Atlas of Endoscopic Spinal Surgery. St. Louis: Quality Medical Pub, 1995, p. 275-292.
4. Arnold WA, Delegge MA, **Schwartzberg SD**. Enteral access: the foundation of feeding. In: Shikora S, Martindale R, **Schwartzberg SD**, editors. Nutritional Considerations in the Intensive Care Unit. Dubuque, Iowa: Kendall/Hunt, 2002, p. 139-152.
5. **Schwartzberg SD**. Medical care delivery. In: Bidgoli H, editor. Internet Encyclopedia. Hoboken: John Wiley & Sons, 2004, Vol 2, p. 586-602.
6. **Schwartzberg SD**. Imaging in laparoscopic surgery. In: Soper N, Swanstrom LL, Eubanks S, editors. Mastery of Laparoscopy Surgery, 2nd Edition. Philadelphia: Lippincott Williams and Wilkins, 2005, p. 118-129. revised - 3<sup>rd</sup> Edition 2008, 4<sup>th</sup> Edition 2012.
7. Kinney S#, **Schwartzberg, SD**. Cholecystitis. In: Craig S, Baker E, editors. Medical Complications in Pregnancy. New York: McGraw-Hill, 2005, p. 297-318.
8. **Schwartzberg SD**. Resolving technical issues in minimally invasive surgery. In: Talamini M, editor. Advanced Therapy in Minimally Invasive Surgery. Oxford: B.C. Decker, 2006.
9. **Schwartzberg, SD**. Laparoscopic Splenectomy. In: Fischer J, editor. Mastery of Surgery, 5th Edition. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins, 2007, p. 1661-1669.  
----Revised/updated for 6<sup>th</sup> edition 2011

10. **Schwartzberg, SD.** Selective vagotomy. In: Fischer J, editor. *Mastery of Surgery*, 5th Edition. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins, 2007. Chapter 74 (web only).
11. **Schwartzberg SD.** Imaging in laparoscopic surgery. In: Soper N, Swanstrom LL, Eubanks S, editors. *Mastery of Laparoscopy Surgery*, 3rd Edition. Philadelphia: Lippincott Williams and Wilkins, 2009, p. 34-47.
12. **Schwartzberg SD.** Incarcerated hernia. In: Cohn S, editor. *Evidence Based Emergency Surgery*. New York: Informa Healthcare 2009.
13. **Schwartzberg SD.** Lower gastrointestinal bleeding. In: Cohn S, editor. *Evidence Based Emergency Surgery*. New York: Informa Healthcare 2009.
14. Beard, R \$ and **Schwartzberg SD.** Incisional, Epigastric and Umbilical Hernias In: Cohn S, Brower ST editors. *Elective General Surgery: An Evidence-Based Approach*, PMPH—USA Shelton, CT 2011.
15. Beard, R\$ and **Schwartzberg SD.** Ventral Hernia In: Cohn S, Brower ST editors. *Elective General Surgery: An Evidence-Based Approach*, PMPH—USA Sleton, CT 2011.
16. Bennett K and **Schwartzberg SD.** Management of Lower Gastrointestinal Bleeding In: Cohn S, Brower ST editors. *Elective General Surgery: An Evidence-Based Approach*, PMPH—USA 2011.
17. **Schwartzberg, SD,** Bailey, RW, Martinez JM, Kelly, KA, Teotia, SS Highly Selective (Proximal Gastric) Vagotomy Open and L Laparoscopic Approaches In: Fischer J, editor. *Mastery of Surgery*, 6th Edition. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins, 2011 in press
18. **Schwartzberg SD** SAGES History & Commitment To Education and Safety in SAGES Manual on Quality, Outcome and Safety Springer Verlag 2011
19. **Schwartzberg, SD** Lichtenstein Based Hernia Repair, In *Master Techniques in General Surgery: Hernia Surgery* ed Jones. Wolters Kluwer Health/Lippincott Williams & Wilkins 2012
20. **Schwartzberg, SD** Evolutions and Revolutions in Surgical Energy In Jones, DJ, Fuchshuber, P, and Feldman L SAGES Manual The Fundamental Use of Surgical Energy, Springer Verlag
21. **Schwartzberg, SD** Laparoscopic Transabdominal Hernia Repair in Females in **Schwartzberg SD,** (volume editor) Asbun H (series editor). *Inguinal Hernia ACS Multimedia Volume 2 Cine-Med* 2012 .
22. **Schwartzberg, SD** , Surgical Energy in Laparoscopy in Murayama K and Chand B *An Evidence-based Approach to Minimally Invasive Surgery.*<sup>2nd</sup> edition Cine-Med 2013
23. Miller A,\* **Schwartzberg SD** Surgical and Endoscopic Options for Benign and Malignant Gastric Outlet Obstruction ***Current Surgery Reports (Volume 2)*** Stephen C. Yang, MD, Editor-in-Chief Springer Verlag 2015
24. **Schwartzberg, SD** and Schwartzberg CJ: FDA and Innovation in *The SAGES Manual - The Ethics of Surgical Innovation.* Stain, Pryor, and Shaddock. (Eds.) pp 61-71 Springer International 2016
25. Wilfong, C.D. and **Schwartzberg, S.D.,** 2017. The Future and Challenges of Surgical Technology Implementation and Patient Safety. In *Surgical Patient Care* (pp. 133-142). Springer, Cham.
26. **Schwartzberg, S.D., 2019.** The future of acute care surgery from divergence to emergence and convergence - the evolution of general surgery continues, in *The*

#### BOOK REVIEWS

1. **Schwartzberg SD**. *The Mysteries Within: A Surgeon Reflects on Medical Myths* by Sherwin B. Nuland. N Engl J Med 2000;343:345.
2. **Schwartzberg, SD**. *James A. Garfield* by Ira Rutkow. N Engl J Med 2006; 355:2053-2054.
3. **Schwartzberg S** Pasic RP, Levine RL (editors). *A Practical Manual of Laparoscopy and Minimally Invasive Gynecology: A Clinical Cookbook, Surgical Innovation* 2007;14:295-295.

#### BOOKS EDITED

1. Shikora S, Martindale R, **Schwartzberg SD**, editors. *Nutritional Considerations in the Intensive Care Unit*. Dubuque, Iowa: Kendall/Hunt Pub, 2002.
2. **Schwartzberg SD**, (volume editor), .Asbun H (series editor) *Inguinal Hernia ACS Multimedia Volume 2 Cine-Med* Print, DVD and iBook editions 2012
3. Fischer, Jones, Pomposelli, Upchurch, Klimberg, **Schwartzberg** and Bland Fischer's *Mastery of Surgery 6<sup>th</sup> Edition* Philadelphia Wolters Kluwer Health/Lippincott, Williams and Wilkins, 2012
4. **Schwartzberg SD** and Jones DB *Operative Practice of Surgical Endoscopy* CRC Press, Taylor & Francis Group Abington, UK 2019

#### PERIODICALS EDITED

1. Harris, BH and **Schwartzberg SD** (issue editors) *Cardiac Treatment in Emergency Care Quarterly* Vol 3. No.2 August 1987
2. Dunkin, BJ, **Schwartzberg, SD** (guest editors). *Surgical Endoscopy*, in *Techniques in Gastrointestinal Endoscopy*. Vol. 15, Issue 4 October 2013

#### EDITORIALS

1. **Schwartzberg SD**. Looking back, looking ahead, a view of technology in the operating room. *Contemp Surg* 2000;56:12-13.
2. **Schwartzberg: SD**. The future is now, surgical endoscopy announces the electronic publication of multimedia articles and dynamic manuscripts. *Surg Endosc* 2003;17(8):1173-1174.
3. **Schwartzberg SD**. Reimbursement for new technologies: the GERD maze is not patient-friendly. *Medscape J Med* 2008:10; <http://www.medscape.com/viewarticle/568440>.
4. **Schwartzberg SD** Hawes RH, Rattner DW, Kochman M, "NOTES: Is it time for introduction to clinical practice?" *Surgery* 2009; 46:841-2. Epub 2009 Jul 24
5. **Schwartzberg SD**. Raising the technology bar in minimally invasive surgery: look how far we've come. *Surg Endosc*. 2010 Jan 7. [Epub ahead of print]
6. **Schwartzberg SD**. The world is getting smaller. *Surg Endosc*. 2012 Mar;26(3):593-7
7. **Schwartzberg, SD**, Jones, DB: Don't get burned from lack of knowledge. Invited editorial to Robinson T, et al., Antenna coupling – a novel mechanism of radiofrequency electrosurgery complication: practical implications. *Ann Surg*. 2012 Jun 29. [Epub ahead of print]
8. Siddiqui G, Miller A,\* McKinley S#, Maduekwe U, **Schwartzberg SD**. The rise of

wearable recording devices: opportunities and risks in medical settings. *Surg Innov.* 2014 Oct;21(5):453-5.

9. Jones SB, Jones DB, **Schwartzberg S**. Only YOU Can Prevent OR Fires. *Ann Surg.* 2014 Aug;260(2):218-9
10. **Schwartzberg SD** Use of robots in outpatient operations is a costly proposition. *Surgery.* 2017 Mar;161(3):641. doi: 10.1016/j.surg.2016.11.005. Epub 2017 Jan 6. No abstract available. PMID:2806926

5. LETTERS TO THE EDITOR:

1. Herron DM\*, **Schwartzberg SD**. Safe and normothermic massive transfusions by modification of an infusion warming and pressure device. *J Trauma* 1996;40:673-674.
2. **Schwartzberg SD**. Research in Developing Countries. *N Eng J Med* 2002;346(8):627-628.
3. **Schwartzberg SD**, Jones DB, Grunwaldt L, Rattner DW. Laparoscopic hernia in the light of the Veterans Affairs Cooperative Study 456: more rigorous studies are needed. *Surg Endosc* 2005;19(9):1288-1289.
4. Vassiliou MC, Mellinger JD, **Schwartzberg SD**. Debunking Myths About the Purpose and Intentions of Fundamentals of Laparoscopic Surgery Testing. *JAMA Surg.* 2019 May 1;154(5):468. doi: 10.1001/jamasurg.2018.5584. No abstract available. PMID: 30785607

6. PUBLICATIONS OR MEDIA PRESENTATIONS OFFERING PROFESSIONAL EXPERTISE (E.G., RADIO SHOWS FOR A NON-PROFESSIONAL AUDIENCE):

7. VIDEOS, AUDIO-TAPES, OR ACADEMIC/EDUCATIONAL EFFORTS:

VIDEOS:

1. Sachs B, **Schwartzberg SD**. Lumbosacral Discectomy and Spinal Fusion. SAGES, Orlando, FL; March 13, 1995.
2. **Schwartzberg SD**, Aludin A, Stewart G. Management of Bleeding Complication Following Laparoscopic Cholecystectomy and Appendectomy. World Congress of Minimally Invasive Surgery, Luxembourg; June 10, 1995.
3. Libby EL, Balin L, **Schwartzberg, SD**. Laparoendoscopic Treatment of Pancreatic Pseudocyst. Boston Intercity Gastroenterology Conference; November 1998.
4. Balin L, Libby EL, **Schwartzberg, SD**. Laproendoscopic Pancreatic Pseudocyst Drainage. American Society of Gastrointestinal Endoscopists, Orlando, FL; May 16-19, 1999
5. **Schwartzberg SD**. The Utility of Articulated Manual Laparoscopic Instruments. Society of American Gastrointestinal Endoscopic Surgeons (SAGES), Dallas, TX; April 2006.
6. Lasellatta A, Fellingner E, **Schwartzberg SD**. Against Occam's Razor: TAP repair of Recurrent Inguinal Hernia with Concomitant Inversion of Original Propylene Plug. Society of American Gastrointestinal Endoscopic Surgeons (SAGES), Washington, D.C. April 2010
7. **Schwartzberg SD**. The Management of the Difficult Appendix. American College of Surgeons Clinical Congress, Washington, D.C. October 2010

8. Reddy S and **Schwaitzberg, SD**: Thoracoscopic Resection of Giant Mediastinal Parathyroid Adenoma Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) San Diego, CA 2012

EDUCATIONAL PROGRAMS ON CD OR DVD:

1. **Schwaitzberg SD**. Diagnostic Laparoscopy. In *Fundamentals of Laparoscopic Surgery* from the Society of American Gastrointestinal and Endoscopic Surgery. Cine-Med, Woodbury, CT, 2004.
2. **Schwaitzberg SD**, Herron D, Gandsas A. Personal Digital Assistants for Surgeons. Cine-Med, Woodbury, CT. 2004.
3. **Schwaitzberg SD**, Herron D, Reardon P. Understanding Operating Room Video. Cine-Med, Woodbury, CT. 2005.

OTHER ACADEMIC/EDUCATIONAL EFFORTS:

2010-

Current unfunded project: PI/Global Payment Models for Population Management of Hernia Repair. The purpose is to determine optimal payment models.

8. MEETING ABSTRACTS – POSTERS AND ORAL PRESENTATIONS:(%)

1. Eisenberg KL, Schwaitzberg SD, and Noon GP. "The Recognition and Management of Complication Associated with Peritoneal Dialysis" Southwest Surgical Congress, Hawaii, May 1984.
2. Schwaitzberg SD and Mattox KL. "Inter Emergency Room Transfer" Southwestern Surgical Congress, San Francisco, CA., April 1986.
3. Connolly RJ, Allen MJ, Romberg K, Grabowy R, Carr KL, Schwaitzberg SD. "In Vivo Erythrocyte Survival Studies after "In-Line Microwave Warming" American Society of Anesthesiologists. San Francisco, CA, October 1991 %
4. Paddock H,\* Connolly RJ, Schwaitzberg SD. Continuous Microwave Warming in an Ex-Vivo Extracorporeal Circuit, Society of Critical Care Medicine, New York, NY, June 8- 11, 1993. %
5. Iafrafi M, \$ Cheri G, Carey D, Schwaitzberg, SD. Survival and Quality of Life after Long Term, Non-trauma ICU Stays. Society of Critical Care Medicine, New York, NY, June 8- 11, 1993.
6. Pappas C\*, Connolly RJ, Terming P, Carr R, Schwaitzberg SD. A Novel Collagen Matrix for Tissue Replacement. Association for Academic Surgery, Albuquerque, NM; November 1994.
7. Pappas C\*, Xang S, Connolly RJ, Schwaitzberg SD. Noninvasive Cardiac Output Monitoring. Association For Academic Surgery, Albuquerque, NM; November 1994. %
8. Toran A\$, Schwaitzberg SD. Non-invasive cardiac output monitoring. A multicenter trial. Society of Critical Care Medicine Washinton DC; 1997. %
9. Schwaitzberg SD, Lantis, JC, Monfort S, Fogarty T, and Connolly RJ. Cutting and coagulation mechanisms in surgery: American College Of Surgeons, Chicago, IL; Oct 1997.
10. Herron D\*, Lantis JC,\* Schwaitzberg SD. 2D versus 3D Laparoscopy Society of American Gastrointestinal Endoscopic Surgeons (SAGES) Seattle, WA, April 1998. %
11. Basu, CB# and Schwaitzberg SD. Malpractice Experience with Laparoscopic Cholecystectomy in Massachusetts 1990-1998, Society Of American Gastrointestinal

- Endoscopic Surgeons (SAGES) San Antonio, TX; March 24-27 1999
12. Pare, G\$, Frieberg, M, Heilman C, Schwaitzberg SD. The Use of Ventriculoperitoneal Shunt in Laparoscopic Surgery. Society of American Gastrointestinal Endoscopic Surgeons (SAGES) San Antonio, TX March 24-27 1999
  13. Park J, Quinn C, Balky h, Connolly R, Nardella P, Schwaitzberg SD. Radiofrequency Powered Linear Stapler. Society of American Gastrointestinal Endoscopic Surgeons (SAGES) San Antonio, TX: March 24-27 1999.
  14. Arnold, WA, \*Connolly, RJ, Hermann, G, Fogarty T, Schwaitzberg, SD. Development of a Novel Portable Cautery System. American College of Surgeons Scientific Exhibit, San Francisco, CA; October 1999.
  15. Connolly, RJ. Nardella, PC, Wrubeluski, T, Schwaitzberg SD. Advances in Bipolar Cautery American College of Surgeons Scientific Exhibit, San Francisco, CA; October 1999.
  16. Moreau L, # Graham R, Schwaitzberg SD. Cervical Scar Perception Influences the Need for Minimally Invasive Procedures, (SAGES), Atlanta, GA; March 2000.
  17. Arnold WA, \*Schwaitzberg SD, Connolly Rogers G. Endoscopic Robotic Telemanipulator Versus Conventional Laparoscopic Instruments: Comparison Of Laparoscopic Task Performance for Surgically Naive Subjects. (SAGES) St Louis, MO; Aril 19-21, 2001.
  18. Schwaitzberg, SD and Riskind D. Advances in Laparoscopic Clip Design: The Preformed Clip (SAGES) St Louis, MO; April 19-21, 2001.
  19. Mixter TG, Rhim C, Arnold WA, Schwaitzberg, SD. Laparoscopic Hernia Repair in a Community Based Videoscopic Surgical Center. SAGES St Louis, MO; April 19-21, 2001
  20. Ibrahim Salama\* and Schwaitzberg SD. Utility of Voice-Activated System In Minimally Invasive Surgery . SAGES Los Angeles, CA; March 2003.
  21. Amanda Rhee# and Schwaitzberg SD. Cost Containment Strategies for Laparoscopic Appendectomy SAGES Los Angeles, CA; March 2003.
  22. Caroline Cao and Schwaitzberg SD. Visuomotor Constraints in Laparoscopic Surgery: A Human Factors Engineering Perspective. SAGES Los Angeles, CA; March 2003.
  23. Misra, M\*, Schiff, J#, Rendon, G, Rothschild J, Schwaitzberg, S. Laparoscopic Cholecystectomy in High Risk Cardiac Surgery Patients. (SAGES) Ft. Lauderdale, FL; April 13-16, 2005.
  24. Ngyuen T, Cao, C, Schwaitzberg, SD. Force and Friction Assessment in Laparoscopic Surgery SAGES Dallas,TX; April 26-26, 2006.
  25. Schwaitzberg, SD. Comparison of Trocar Insertion Force in MIS SAGES April 26-26,2006 Dallas, TX.
  26. Amori, RE, Neff, LM, Tischler AS, Schwaitzberg, SD, Lechan, RM. Aldosterone and Estrone Co-secretion from ACTH-independent Bilateral Macronodular Adrenal Hyperplasia (AIMAH) The Endocrine Society. June 2-5 2007, Toronto, CA
  27. Bell A, Mandelup E Schwaitzberg SD, Cao, CG. Speed-accuracy trade-off in VR simulation with haptic feedback, Society of American Gastrointestinal Endoscopic Surgeons, Philadelphia, PA April 11-13, 2008
  28. Zhou, M , Tse S, Derevianko A, Jones DB, Schwaitzberg, SD, Cao, CG. Learning curve in laparoscopic suturing with haptic feedback , Society of American Gastrointestinal Endoscopic Surgeons, Philadelphia, PA April 11-13, 2008
  29. Tsuda S Barrios L, Derevianko A, Arias, N, Schneider B, Schwaitzberg, SD Cao, CG,

- Jones, DB. Does telementoring shorten the pathway to proficiency in the simulation environment? Society of American Gastrointestinal Endoscopic Surgeons, Philadelphia, PA April 11-13, 2008
30. Sternbach J#, Raman A#, Babajide# A, Sheth K, Schwaitzberg, SD. When does GERD testing become cost effective? Society of American Gastrointestinal Endoscopic Surgeons, Philadelphia, PA April 11-13, 2008 %
  31. Bell, A., \*Schwaitzberg, S.D., Cao, C.G.L Vibration to Provide Force Information in Surgery Society of American Gastrointestinal and Endoscopic Surgeons. Phoenix, AZ, April 2009 Poster of Distinction
  32. Feldman LS, Fuchshuber, P, Jones DJ, Mischna J, Schwaitzberg SD. Surgeons Don't Know what they Don't Know about the Safe Use of Surgical Energy. Society of American Gastrointestinal and Endoscopic Surgeons. San Diego, CA 2012 %
  33. Weyhrauch P, Niehaus J Meyers B Metzger M, Woo D, Schwaitzberg SD, Grosdemouge C, Cao, CGL Perez, R. Laparoscopic Surgery Training System Military Health System Research Symposium Harbor Beach Marriott, Ft Lauderdale, FL 13-16 August 2012.
  34. Zhang, L., Grosdemouge, C., Sankaranarayanan, G., Anh, W., Sreekanth, A.V., De, S., Jones, D., Schwaitzberg, S., Cao, C.G.L. (accepted). The Added Value of Virtual Reality Technology and Force Feedback for Surgical Training Simulators. IEA 2012 Meeting, Recife, Brazil, February 12-16, 2012
  35. Nemani A, Sankaranarayanan G, Roberts KE, Schwaitzberg SD, Jones, DB, De, S Time Series Analysis for Transvaginal Notes and Laparoscopic Cholecystectomy SAGES 2013, Baltimore, MD
  36. Kaplan, C, Lanigan A, Lin H, Sankaranarayanan G, Ritter ME, Schwaitzberg SD, Jones, DB, DeS Exposure to FLS Task Outweighs Video Gaming Experience for the VBLAST PT(c) Simulator. SAGES 2013, Baltimore, MD
  37. Feldman LS, Fuchshuber P, Jones DB, MD, Mischna J, Munro MG, MD, Schwaitzberg SD, Fuse Task Force. Rationale for the Fundamental Use of Surgical Energy(tm) (fuse) Educational Program SAGES 2013, Baltimore, MD
  38. Dunkin BJ, Wilcox V, Lababidi H, Al Harthi B, Al Froukh J, Al Ammar M, Okrainec A, Schwaitzberg S, . Successful Fundamentals of Laparoscopic Surgery (FLS) Testing for Practicing Surgeons in the Middle East SAGES 2013, Baltimore, MD
  39. Schwaitzberg SD, Jones DB, Scott D McKinley SK, Hunter T Castrillion J Gunnarson C Brunt LM. Duct Injury Prevention Requires a New National Training Paradigm % Despite Successful Deployment of FLS SAGES 2014 Salt Lake City, UT.
  40. Mentis HM,\* Chellali A, & Schwaitzberg SD Learning to See the Body: Supporting Instructional Practices in Laparoscopic Surgical Procedures Conference on Human Factors in Computing System April 2014 Toronto, Canada %
  41. Boehme, J, Jones DB, Scott D McKinley SK, Hunter T, Brunt LM, Schwaitzberg SD Duct Injury Prevention Requires a New National Training Paradigm SAGES 2015 Nashville TN %
  42. Zhao, J.Y., Qiu, H., Aleksandrovskiy, I., Tierney, S., Johnson, M., Lawlor, M., Braverman, J., Elkin, P. and Schwaitzberg, S.D., 2017. Unnecessary Percutaneous Cholecystostomy Drainage Is Associated with Potentially Preventable Mortality: A Comparison of Patient Characteristics and Management Strategies for Cholecystitis in 2005 and 2015. *Journal of the American College of Surgeons*, 225(4), p.S139.ACS Scientific Forum

43. Santos, N., Mensah, A., Linsk, A., Derevianko, A., Fitzpatrick, E., Nguyen, B.M., **Schwaitzberg, S.D.**, Jones, D.B., De, S. and Cao, C.G., 2017. Measuring Transfer of Skill Acquisition from the Virtual Translumenal Endoscopic Surgery Trainer (VTEST). *Journal of the American College of Surgeons*, 225(4), p.e155.

### **Patents**

1. Carr, Kenneth L., Richard S. Grabowy, and **Steven D. Schwaitzberg**. "In-line microwave warming apparatus." U.S. Patent 5,073,167, issued December 17, 1991.
2. Durville, F.M., Connolly, R.J., Lantis, J.C., Rediker, R.H. and **Schwaitzberg, S.D.**, Cynosure Inc and NE Medical Center Hospitals, 2000. *Portable cautery system*. U.S. Patent 6,039,729.
3. Bell, A., Johanas, J., Saide, M., Cao, C., Leisk, G.G. and **Schwaitzberg, S.**, Tufts University, 2010. *Dynamic Minimally Invasive Training and Testing Environments*. U.S. Patent Application 12/310,724.
4. Allison, Robert, and **Steven D. Schwaitzberg**. "System and method for treatment of Barrett's esophagus incorporating radiometric sensing." U.S. Patent Application 15/127,059, filed June 22, 2017.