

Steven D. Schwaitzberg, MD FACS MAMSE

SUNY Distinguished Service Professor

Professor (tenure) and Chairman

Department of Surgery

Professor of Biomedical Informatics

School of Medicine & Biomedical Sciences

University at Buffalo

(July 7, 2023)

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

Home Address:
35Hallam Rd
Buffalo, NY 14216

Education:

M.D. in Medicine Baylor College of Medicine	1980
M.A. Medical Science Harvard Medical School	2014
B.A. in Biology The Johns Hopkins University	1977
Traineeships:	
Chief of Service (Leadership Program in Health Policy & Management) Brandeis at The Heller School for Policy and Management (ACS Scholar)	2010
Chief of Service (Harvard Chiefs of Service Course) Harvard School of Public Health	2006
Trauma Fellow (Pediatric Trauma) Pediatric Trauma Institute at the Floating Hospital for Children	1986-1987
Resident (General Surgery) Baylor Affiliated Hospitals	1981-1986
Research Associate (Infectious Disease) Baylor College of Medicine	1980-1981

Boards & Certifications:

1986	Massachusetts Medical License
1987	American Board of Surgery (Recertified 1995, 2007, 2018)
1988	American Board of Surgery, Critical Care (Recertified 1996)

2015 New York Medical License

Professional Appointments:

ACADEMIC:

2022 SUNY Distinguished Service Professor
2016 Professor of Biomedical Informatics (vol)
Jacobs School of Medicine and Biomedical Sciences Buffalo, NY
Director, UB RIS²E² 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)
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
365th 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-present American Board of Surgery Certifying Examination
- 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)
- Scientific Advisory Panel
2007-15 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
2018 Director-UBRI²SE² (Research, Innovation, Simulation, Structure, Engineering,
Education)
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 21st Century Laureate Achievement Award – Teaching Digital Video to Surgeons
 Computerworld/National Smithsonian Honors
 2005-2022 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
 2019 The Chancellor's Award for Excellence in Faculty Service- SUNY
 2021-23 Buffalo Top Surgeons

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
 2012-2020 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)
 2021 - Board Director SAGES Foundation
 2022- Board Director – SAGES Ingenuity

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
 2021- Named ACS Master Educator in Surgery and admitted to the Academy of
 Master Educators in Surgery (October 2021 induction)

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
 Buffalo Surgical Society

2017 Japanese Society for Endoscopic Surgery (honorary)
 2019 Foundation for Surgical Fellowships - Board of Directors
 2021 - Vice President

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 Translumenal 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

- 2010 6th Innovations in the Surgical Environment Conference, Annapolis, MD
Adrenal Incidentaloma
MIS and Cancer Endocrine/Solid Organ Postgraduate Course SAGES Annual Meeting
Washington, DC
- 2010 Are There Better Ways to Teach Surgeons?
15th 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
Society of American Gastrointestinal Endoscopic Surgeons, San Antonio, TX
- 2011 Introducing New Technology into the Operating Room
Society of American Gastrointestinal Endoscopic Surgeons, San Antonio, TX
- 2011 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
12th 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
13th 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
4th 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)
- 2021 What are you worth? Negotiating your contract DDW (virtual) May 22, 2021
- 2022 Visiting professor "Surgical Innovation" University of Rochester May 2022
Visiting Professor "Hypercalcemia " Cleveland Clinic December 2022
- 2023 Blood and the Moving Wheels of Time Innaugral Eli and Joanne Curi Lectureship
Rutgers

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

2015 Moriaka, Japan
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

2020 21st Century Surgical Training 2nd Congress of Minimally Invasive Surgery in Lublin
Lublin, Poland (Virtual)

2022 7th AKU Annual Surgical Conference Aga Khan University, Karachi, Pakistan (Virtual)
Innovation in Surgery Surgicon – Romanian Medical Student Association Bucharest
Romania (virtual) October 2022
We can all Innovate University of Manitoba Winnipeg Canada December 2022

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
- 2003-2020 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
Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR)
- 2011- Editorial Board Member
Chinese Journal of Digestive Surgery
- 2021 Editorial Nucleus
The Cutting Edge of Surgical Education
- 2023 Reviewer National Inventors Hall of Fame
Associate Editor *Surgical Innovation*
Associate Editor *Surgical Innovation*

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
Clinical Council Executive Committee
2017 – President, University Surgeons Incorporated (UBMD Surgery)
2018
Director UB RIS²E² (Research Innovation Simulation Structure and Education) Center
2019 LCME accreditation taskforce
Chairman, Pediatric Chair Search Committee
Board of Directors Academic Malpractice Insurance (SUNY)
2023 Chairman, Anesthesia Chair Search
Deans Advisory Council

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 (ad hoc)
Chairman Commission on Cancer Committee

2019 Director Tissue Bank

2020 Chair Surgical Executive Committee

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

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

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

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

2008-2009 Cambridge Health Alliance, Cambridge, MA
 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)
Harvard Medical School - Cambridge Health Alliance, Cambridge, MA
- 2010-2015 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

2008	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting Device Development: From Concepts to Cash
2009	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting PG Course Chairman: Patient Safety in Biliary Surgery
2011	Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting 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
2021	Course Director – Surgical Innovation SAGES Annual Mtg LV,

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
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.
- Helena Mentis, PhD 1 yr post doc in Issyl Lab Asst. Prof UMBC Computer Science
- 2013-2014 Amie Miller, MD 1 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, MPMC, US Army Contract #: W81XWH-11-C-0074
Develop hyper-real haptic simulation for laparoscopic simulation
Role: Consultant P Weyhrauch PI

Publications:

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, Carpatin Bone RC, Freidman B, Mure AJ, Brathwaite C, Shapiro E, Melhorn 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[®] (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]
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