

## CURRICULUM VITAE

**DATE:** October 2020

**NAME:** Lillian S. Kao, MD, MS, CMQ, FACS

**PRESENT TITLE:** Jack H. Mayfield, MD, Chair in Surgery  
Division Chief, Acute Care Surgery  
Vice-Chair for Research and Faculty Development  
Vice-Chair for Quality of Care  
Department of Surgery, McGovern Medical School at the  
University of Texas Medical School at Houston

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**BIRTHDATE:** November 11, 1971

**CITIZENSHIP:** United States

**UNDERGRADUATE  
EDUCATION:** 1989-1993 University of Michigan, Ann  
Arbor  
Integrated Premedical-Medical Program (Inteflex)  
Bachelor of Science – Biomedical Sciences  
*Magna Cum Laude*

**GRADUATE  
EDUCATION:** 1992-1996 University of Michigan Medical  
School, Ann Arbor  
Integrated Premedical-Medical Program  
Doctorate in Medicine

2002-2006 University of Texas Health Science Center at Houston  
Masters of Science in Clinical Research

**POSTGRADUATE TRAINING:**

1996-1997 Intern in General Surgery  
University of Washington Medical Center, Seattle, Washington

1997-2001	Resident in General Surgery University of Washington Medical Center, Seattle, Washington
2001-2002	Senior Gastrointestinal Surgical Fellow University of Washington Medical Center, Seattle, Washington
2006-2007	Critical Care Fellow University of Texas Health Science Center at Houston

**PROFESSIONAL DEVELOPMENT:**

2006-2007	Graduate of the Clinical Safety & Effectiveness Education Program The University of Texas MD Anderson Cancer Center
2011	Training Institute for Dissemination and Implementation Research in Health The National Institutes of Health
2013-2014	Certificate in Academic Medical Department Leadership The University of Texas School of Public Health Fleming Center for Healthcare Management
2017	Leadership Program for Health Policy and Management Brandeis University: Heller School for Social Policy and Management

**ACADEMIC APPOINTMENTS:**

2001-2002	Acting Instructor University of Washington Medical Center
2002-2007	Assistant Professor McGovern Medical School at UTHealth
2007-2010	Associate Professor McGovern Medical School at UTHealth
2010-2013	Associate Professor with Tenure McGovern Medical School at UTHealth
2013-present	Professor with Tenure McGovern Medical School at UTHealth
2007-present	Faculty Center for Clinical Research and Evidence-Based Medicine University of Texas Medical School at Houston
2007-present	Member University of Texas-Memorial Hermann Center for Healthcare Quality and Safety
2009-present	Co-Founder and Co-Director

2010-present	Center for Surgical Trials and Evidence-based Practice (C-STEP) Director of the Clinical Epidemiology Program Center for Clinical Research and Evidence-Based Medicine McGovern Medical School at UTHealth
2011-present	Vice Chair for Quality of Care, Department of Surgery McGovern Medical School at UTHealth
2014-present	Vice-Chair for Research and Faculty Development, Department of Surgery, McGovern Medical School at UTHealth
2016-2017	John B. Holmes Professor of Clinical Sciences, Department of Surgery, McGovern Medical School at UTHealth
2017-present	Division Chief, Acute Care Surgery McGovern Medical School at UTHealth
2017-present	Jack H. Mayfield, MD, Chair in Surgery, Department of Surgery, McGovern Medical School at UTHealth

**HOSPITAL APPOINTMENTS:**

2001-2002	Active Staff, University of Washington Medical Center, Seattle, Washington
2001-2002	Consulting Staff, VA Medical Center, Seattle, Washington
2002-present	Active Staff, Lyndon B. Johnson General Hospital, Houston, Texas
2005-present	Active Staff, Hermann Memorial Hospital – Texas Medical Center, Houston, Texas
2007-2017	Vice-Chief of Surgery at Lyndon B. Johnson General Hospital, Houston, Texas
2007-2014	Director of Surgical Critical Care, Lyndon B. Johnson General Hospital, Houston, Texas
2013-2018	American College of Surgeons, National Surgical Quality Improvement Program Surgeon Champion for Lyndon B. Johnson General Hospital, Houston, Texas

**LICENSURE:** Washington (MD00039617) -- Inactive  
Texas (L6083) – Active

**CERTIFICATIONS:** American Board of Surgery #47359 (2002), Recertification  
(2009)  
American Board of Surgery: Surgical Critical Care (2007),  
Recertification (2017)  
Advanced Cardiac Life Support Re-certification (2006, 2009,  
2018)  
Advanced Trauma and Life Support Certification (1997), Re-  
certifications (2002, 2007)

Advanced Trauma and Life Support Instructor Certification, ID Number 196908 (2010, 2014, 2018)  
Fundamentals of Laparoscopic Surgery (2011)  
American Board of Medical Quality: Certified in Medical Quality, (2014-2019 Certificate ID: 214M12, 2019-24 Certificate ID: 219013)  
Basic Endovascular Skills for Trauma (2017)  
Advanced Burn Life Support Certification (2019)

**PROFESSIONAL ORGANIZATIONS:**

*LOCAL:*

2001-2002	Harkins Medical Society (Seattle, Washington)
2006-present	Houston Surgical Society
2013-2014	-Secretary
2014-2018	-Vice-President
2018-2019	-President

*REGIONAL:*

2003-2014	Southwestern Surgical Society
2014-present	Texas Surgical Society
2020-present	-Treasurer
2015-present	Texas Alliance for Surgical Quality (TASQ)
	-Director
2005-present	South Texas Chapter American College of Surgeons (ACS)
2008-2009	-Member, Program Committee for South Texas ACS Meeting
2008-2011	-Member, Committee on Applicants
2014-2015	-Chair, Program Committee for South Texas ACS Meeting
2015-present	-Councilor
2016-2017	-Co-Chair, Program Committee for 1 <sup>st</sup> North & South Texas Joint Meeting (Texas ACS Meeting)
2019-present	-Member, Committee on Applicants
2017-present	South Texas Chapter, Committee on Trauma (COT)
	-Vice-Chair, South Texas COT

*NATIONAL:*

1995-present	Alpha Omega Alpha
2009-present	American Board of Surgery
2011-2018	-Examination Consultant to the Qualifying Examination
	-Associate Examiner (2009, 2011, 2012, 2013)
	-Participant, ABS Qualifying Examination Standard Setting meeting (2017)

2018-present	-Associate Examiner for the General Surgery Certifying Examination
2001-present	American College of Surgeons (ACS)
2001-2003	- Associate Fellow
2004-present	- Fellow
2014-present	- General Surgery Lead, Scientific Forum Committee
2016-2017	- Member, Trusted Medical Information Evaluation Committee
2018-present	ACS Board of Governors (ACS BOG)
2019-present	-Member, Nominating Committee
2019-present	-Liaison to the ACS Health Policy and Advisory Council
2019-present	-Member, Surgical Care Delivery Workgroup
2020-present	-Co-Chair, Surgeon Workforce Subcommittee
2018-present	ACS Committee on Trauma (ACS COT)
2018-present	-Member, Long Term Outcomes Committee, Committee on Trauma
2020-present	-Chair, Equity, Diversity, and Inclusion Advisory Work Group
2020-present	-Member, Scudder Oration Work Group
2020-present	-Ex-Officio Member, Membership Committee
2017-present	American Association for the Surgery of Trauma (AAST)
2018-2021	-Member, Educational Development/ MOC Committee
2018-2021	-Member, Communications Committee
2019-present	-Representative to American College of Radiology (ACR) Appropriateness Criteria (Suspected Spine Infection)
2015-present	American Surgical Association (ASA)
2017-2018	-Member, Social Media Task Force
2018-2020	-Member, Quality & Outcomes Program Sub-Committee
2020-present	-Liaison to American College of Surgeons Surgical Research Committee
2020-2021	-Member, Health Policy and Management Scholarship Review Committee
2002-present	Association for Academic Surgery (AAS)
2007-2009	- Education Committee
2008-2009	- Co-Chair, Education Committee
2007-2010	- Institutional Representative
2009-2010	- Co-Chair, Leadership Committee
2008-present	- Member, Executive Council
2009-2013	- AAS/Royal Australasian College of Surgeons Task Force
2010-2013	- Chair, AAS/Royal Australasian College of Surgeons Task Force
2010-2014	- Nominating Committee
2013-2014	- Chair, Nominating Committee
2010-2014	- Member, Academic Surgical Congress Core Committee

2010-2012	- Secretary
2012-2013	- President-Elect
2013-2014	- President
2010-2014	Association for Academic Surgery Foundation (AASF)
2010-2014	- Board Member and Director at Large
2014-present	- President
2016-present	Association of Women Surgeons (AWS)
2011-2014	Evidence Based Reviews in Surgery
	-Steering Committee
2003-present	Surgical Infection Society (SIS)
2007-2010	- Membership Committee
2013-2016	- Chair, Acute Care Surgery ad hoc Committee
2016-2019	- Chair, By-Laws and Special Projects Committee
2013-2019	- Member, Executive Council
2016-2017	- Member, Ad hoc Communications Committee
2016-2017	- Representative to the American College of Surgeons Trusted Medical Information Commission Specialty Association Collaboration
2019-present	- Member, Strategic Planning Committee
2019-present	-SIS-NA Representative to the ISAcademy
2006-present	Society of Critical Care Medicine (SCCM)
2020-present	-Representative to the National Time Sensitive Systems of Care Coalition
2009-present	Society of University Surgeons (SUS)
2011-2013	-Education Committee
2011-2012	-Mentor, SUS Mentoring Program
2013-present	Surgical Biology Club II (SBCII)
2016-present	Society of Clinical Surgery (SCS)

**INTERNATIONAL:**

2005-present	Cochrane Wounds Group
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**HONORS AND AWARDS:**

*Medical school*

1995	Alpha Omega Alpha
1996	Janet M. Glasgow Memorial Achievement Citation

*Faculty*

2003-11, 2013-20	Dean's Teaching Excellence Award
2004	Surgical Infection Society Foundation for Research and Education Junior Faculty Fellowship Award
2005	Robert Wood Johnson Physician Faculty Scholar Award
2006	Best Poster at the Southwestern Surgical Congress Meeting

2009	Socrates Award for dedication to surgical teaching, evidence-based medicine, and exceptional knowledge base; awarded by the Chief Residents, Department of Surgery
2010	Association for Academic Surgery International Visiting Professorship Award to the Taiwan Surgical Association Meeting
2010	Illinois Mathematics and Science Academy Alumni Distinguished Leadership Award
2010	UT System Clinical Safety and Effectiveness Award - Certificate of Merit for Sustained Excellence (Project: "Evolution of CS&E Program Impact -- A Strategic Integration of Projects to Improve Patient Flow by Improving Quality of Care", Leader: Bela Patel)
2011	Frank G. Moody Award for being a true academic surgeon in recognition of her successful balance of multiple roles as a general surgeon, physician scientist, mentor to both research and clinical residents, and academic administrator; awarded by the Chief Residents, Department of Surgery
2014	University of Texas System Regents' Outstanding Teaching Award
2015	Best New Member Presentation, Texas Surgical Society Meeting
2015	Chief Residents' Teaching Award in recognition of dedication to and passion for resident education
2016	Best in Acute Care Surgery (ACS) Mentorship Award
2017	American College of Surgeons/ American Surgical Association Health Policy Scholarship (to attend the "Leadership Program in Health Policy and Management" at Brandeis University's Heller School)
2018	Chief Residents' Resident Advocate Award in recognition of distinguished leadership, service, and loyalty to surgical education

**MENTEE HONORS/AWARDS:**

2011, 2012	American Society of Colon and Rectal Surgeons Resident Research Initiation Award (Uma Phatak)
2013	Society of Surgical Oncology Best Disparities-Related Paper by a Resident/Fellow (Uma Phatak)
2014	Surgical Infection Society New Member Award (Mike Liang)
2015	American College of Surgeons Scientific Forum Excellence in Research Award (Zeinab Alawadi)
2016	1 <sup>st</sup> place, UTHealth-Harris Health Spring Competition -- Quality Project Presentation -- Residents (Krislynn Mueck, Seth Bellister, Alixandra Kale)
2016	South Texas American College of Surgeons Resident Research Presentation (Krislynn Mueck)

2016	Society of Surgical Oncology Annual Resident/Fellow Essay Award for the Best Clinical Research Paper (Zeinab Alawadi)
2016	American Society of Colon and Rectal Surgeons Medical Student Research Initiation Award (Charles Wan)
2017	Region VI American College of Surgeons Committee on Trauma Resident Paper Competition – 1 <sup>st</sup> Place (Shuyan Wei)
2018	South Texas American College of Surgeons Committee on Trauma Resident Abstract Competition (Clinical Research) – 1 <sup>st</sup> Place (Gabrielle Hatton)
2019	Society of Critical Care Medicine (SCCM) Texas Chapter Research Grant (Gabrielle Hatton)
2019	Society of Critical Care Medicine (SCCM) Texas Chapter Annual Symposium Abstract Award (Gabrielle Hatton)
2020	Surgical Infection Society (SIS) New Member Award (Gabrielle Hatton)

**EDITORIAL POSITIONS:**

Editorial positions:

2014-present	Social Media Editor <i>Journal of the American College of Surgeons</i>
2018-present	Deputy Editor <i>Journal of the American College of Surgeons</i>

Editorial board:

2005-2010	Editorial Board <i>Journal of Surgical Research</i>
2011-present	Editorial Board <i>Journal of the American College of Surgeons</i>
2012-2019	Editorial Advisory Board <i>American College of Surgeons Surgery News (2012-2018)</i> <i>American College of Surgeons Emerging News Community (2019)</i>
2015-2019	Section Editor, Small Intestine <i>UpToDate</i>
2016-present	Editorial Board <i>Surgery</i>
2018-present	Editorial Board <i>Surgical Infections</i>
2019-present	Editorial Board <i>World Journal of Surgery</i>
2019-present	Editorial Board <i>Annals of Surgery</i>



Ad hoc reviewer:

2004-present	<i>Journal of Surgical Research</i>
2008-2009	<i>AAMC MedEdPORTAL</i>
2009-present	<i>Journal of the American College of Surgeons</i>
2010-2012	<i>Archives of Surgery</i>
2010-present	<i>Surgery</i>
2011-present	<i>Surgical Infections</i>
2011-present	<i>British Journal of Surgery</i>
2011-present	<i>Annals of Surgery</i>
2012-present	<i>Expert Review of Anti-infective Therapy</i>
2012-present	<i>Injury</i>
2013-present	<i>JAMA Surgery</i>
2013-present	<i>Burns</i>
2013-present	<i>American Journal of Infection Control</i>
2013-present	<i>Langenbeck's Archives of Surgery</i>
2014-present	<i>ANZ Journal of Surgery</i>
2015-present	<i>JAMA</i>
2016-present	<i>The Lancet</i>
2017-present	<i>PLOS ONE</i>
2017-present	<i>American Journal of Surgery</i>
2017-present	<i>Journal of Surgical Education</i>
2017-present	<i>The Lancet Infectious Diseases</i>
2017-present	<i>Disease of the Colon &amp; Rectum</i>
2017-present	<i>The Joint Commission Journal on Quality and Patient Safety</i>
2018-present	<i>World Journal of Surgery</i>
2018-present	<i>Health Affairs</i>
2019-present	<i>BMJ Open</i>

**SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:**

2009	Mail reviewer for NIH Challenge Grant Applications ZRG1 SBIB-V (58) Meeting (Challenge Grant Panel #23)
2012	Phase I reviewer Patient Centered Outcomes Research Institute (PCORI)
2015	Canadian Cancer Society Research Institute's Knowledge to Action Grants Competition (External Reviewer)
2015	Scientific Reviewer Patient-Centered Outcomes Research Institute (PCORI) Improving Healthcare Systems Panel B (Spring Cycle and Cycle 3)
2016	Scientific Reviewer Patient-Centered Outcomes Research Institute (PCORI) Pragmatic Clinical Studies Panel (Cycle 2)
2017	Patient-Centered Outcomes Research Institute (PCORI) Pragmatic Clinical Studies Panel (Cycle 1)
2019	Patient-Centered Outcomes Research Institute (PCORI)

## Improving Healthcare Systems (Cycle 1)

### **SERVICE ON THE UNIVERSITY OF TEXAS-HOUSTON MEDICAL SCHOOL COMMITTEES:**

2002-2006	Ad hoc interviewer, Admissions Committee
2003-2005	Faculty Senate, First Term
2005-2006	Faculty Senate, Second Term
2003-2006	Clinical Course Directors
2002-present	Department of Surgery Program Evaluation Committee (formerly Educational Advisory Committee)
2002-2006	Department of Surgery Medical Student Curriculum Sub- Committee
2005-2006	Curriculum Committee
2012-present	Department of Surgery Research Review Committee
2012-present	Masters Program in Clinical Research, Admissions Committee
2013-present	Masters Program in Clinical Research, Curriculum Committee
2013-present	Department of Surgery Clinical Competency Committee
2014-2020	Faculty Appointments, Promotions, and Tenure Committee
2016-present	Research Conflict of Interest Committee
2017	Co-Chair, Anesthesiology Chair Search Committee
2018	Member, Emergency Medicine Chair Search Committee
2019	Member, Pathology Chair Search Committee

### **SERVICE ON UT-AFFILIATED HOSPITAL COMMITTEES:**

#### Lyndon Baines Johnson (LBJ) General Hospital Committees

2002-2017	LBJ Trauma Committee
2003-2006	LBJ Operating Room Committee
2003-2006	LBJ Infection Control Committee
2012-2017	LBJ Procedure Case Review Committee
2015-2017	-Co-Chair
2013-2017	LBJ Infection Prevention Subcommittee
2016-2017	Safe Day LBJ Steering Committee -Co-Chair

#### Harris Health System (previously Harris County Hospital District, HCHD) Committees

2003-2006	HCHD Infection Control Committee
2007-2014	HCHD Critical Care Committee
2013-2017	Harris Health System Peer Review Committee -Co-Chair

#### Memorial Hermann Hospital-Texas Medical Center Committees

2006-2007	Memorial Hermann Hospital Glycemia Task Force
2017-present	Memorial Hermann Hospital-Texas Medical Center FILTER Committee

2017-present	Memorial Hermann Hospital-Texas Medical Center Surgeon's Council
2020-present	Memorial Hermann Hospital-Texas Medical Center Medical Executive Committee
2020-present	Memorial Hermann Hospital-Texas Medical Center Surgical Services Quality Council

Memorial Hermann Hospital System Committees

2019-present	MHMD Surgery Clinical Programs Committee (CPC) Subcommittee
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**DATA SAFETY AND MONITORING COMMITTEES**

2007-2014	A comparison of two target mean arterial pressures in the resuscitation of hypotensive patients undergoing laparotomy or thoracotomy for trauma: a randomized prospective clinical trial (Chair, DSMB) (PI: Matthew Carrick, MD, Baylor College of Medicine)
2011-2012	Early whole blood in patients requiring transfusions after major trauma (Chair, DSMB) (PI: Bryan Cotton, MD, MPH)
2012-present	A randomized controlled comparative study on efficacy and cost-effectiveness of heparin-bonded versus non-heparin-bonded polytetrafluoroethylene hemodialysis access grafts (PRICE-Propaten Randomized Investigation on Cost-benefit and Efficacy) (Chair, DSMB) (PI: Christopher Charlton-Ouw, MD)
2016-present	Cesarean Skin Incision Trial (CSIT) (Member, DSMB) (PI: Caroline Carter Marrs, MD)

**INTRAMURAL TEACHING RESPONSIBILITIES**

*Medical Students*

2003-2006	Associate Director, Surgical Education
2002-2006	Third and Fourth Year Surgery Clerkship Coordinator at LBJ General Hospital
2002-2016	Lecturer, Third Year Junior Surgical Clerkship Core Lectures: "Critical Care"
2011-present	Lecturer, Center for Surgical Trials and Evidence-based Practice (C-STEP) summer lecture series: "Statistics"

*Residents*

2002-present	Departmental Surgery Morbidity and Mortality Conference
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2008-2009 Faculty Advisor, General Surgery Journal Club  
([Http://surgery.pbwiki.com/](http://surgery.pbwiki.com/) (invite key: journalclub))

2008-2010 Faculty Advisor, General Surgery Junior Teaching Conference

2009-2017 LBJ General Surgery Teaching Conferences (teach QI conference, ABSITE review, mock orals, and journal club)

2009-2010 Facilitator, Evidence-Based Medicine Course for Chief Residents

2012 Facilitator, Evidence-Based Medicine Workshop for Chief Residents

2012-2013 Lecturer, Intern Boot Camp: "Initial Evaluation of Biliary Disease"

2013 Lecturer, "Quality Improvement: Is there a science to it?"

*Fellows*

2011-2013 Lecturer, Critical Care Fellows Conference: "Mechanical Ventilation"

2012-2013 Lecturer, Critical Care Fellows Conference: "Statistics"

2015-2016 Critical Care Fellow Journal Club (monthly)

*Faculty*

2005-2017 Co-Course Director, Clinical Trials Course, Clinical Research Curriculum

2006-present Facilitator, Literature Appraisal Course, Clinical Research Curriculum

2009-2011 Co-Course Director, Using Research to Inform Health Care Policy and Practice, Masters Program in Clinical Research

2008-present Faculty, Advanced Clinical Trials Course, Masters Program in Clinical Research

2010-2018 Co-Course Director, Advanced Clinical Study Design Course, Masters Program in Clinical Research

2014-present Lecturer, "Dissemination and Implementation Research", Social, Economic, and Behavioral Determinants of Health Course

2008-present Lecturer, University of Texas Medical School at Houston and Memorial Hermann Texas Medical Center Physician Quality and Safety Academy

*Other*

2010-present Instructor, Advanced Trauma Life Support (ATLS)

2017-present Course Director, Advanced Trauma Life Support (ATLS)

**EXTRAMURAL TEACHING RESPONSIBILITIES**

September 2005 Facilitator, Practicing and Teaching Evidence Based Health Care: An Intensive Workshop. UT/MDACC jointly sponsored.

September 2006	Facilitator, Practicing and Teaching Evidence Based Health Care: An Intensive Workshop. UT/MDACC jointly sponsored.
January 2008	Facilitator, Practicing and Teaching Evidence Based Health Care: An Intensive Workshop. UT/MDACC jointly sponsored.
October 2008	Co-Course Director, Fundamentals of Surgical Research. Sponsored by Association for Academic Surgery.
October 2009	Co-Course Director, Career Development Course. Sponsored by Association for Academic Surgery.
May 2011	Co-Chair, Developing a Career in Academic Surgery. Sponsored by Association for Academic Surgery/Royal Australasian College of Surgeons, Academic Section.
May 2012	Co-Chair, Developing a Career in Academic Surgery. Sponsored by Association for Academic Surgery/Royal Australasian College of Surgeons, Academic Section.
August 2013	Faculty, Writer's Workshop. Sponsored by World Journal of Surgery.
February 2015	Co-Chair, Surgical Investigators Course: The Grant Writing Workshop. Sponsored by Association for Academic Surgery/Society of University Surgeons
October 2016	Faculty, Residents Leading Quality Course. Sponsored by the American College of Surgeons.

**MENTORING ACTIVITIES: STUDENTS/RESIDENTS/ FELLOWS**

Summer 2003	Matthew Knight (NIH sponsored summer medical student research program); Project: Impact of Hyperglycemia on Necrotizing Soft Tissue Infections
Summer 2009	Casey Anderson (PI sponsored summer medical student research program); Project: Peri-operative Near-Misses and Adverse Events
Summer 2010	Omar Metwalli (NIH sponsored summer medical student research program); Project: One vs. Two-Stage Amputations in Diabetic Patients
Summer 2010	Matthew Altman (NIH sponsored summer medical student research program); Project: Glycemic Variability in Diabetic vs. Non-Diabetic Critically Ill Patients
Summer 2013	Michael Huang (PI sponsored summer medical student research program); Project: Readmissions in Gastrointestinal Cancer Surgery Patients
Summer 2016	Charlie Wan (ASCRS sponsored medical student research grant); Project: Outcomes in Medically Underserved Patients with Diverticular Disease
Summer 2016	Braden Goldberg (PI sponsored summer medical student research program); Project: Predictors of Recurrent Emergency Department Visits in Patients with Benign Biliary Disease

Summer 2018	Jacqueline Woloski (PI sponsored summer medical student research program); Project: Superficial Surgical Site Infections After Trauma Laparotomy
2018-2019	Reginald Du (MD, MPH Candidate); Project: Positive Fluid Balance and Acute Kidney Injury in Trauma Patients
Summer 2019	Luciano Posada (PI sponsored summer medical research program); Project: A Prospective Comparison of Surgical Site Infection Risk and Skin Management after Trauma Laparotomy
Summer 2019	Hannah Ortiz (PI sponsored summer medical research program); Project: Choices Matter: Impact of Skin Management on Patient Reported Outcomes after Emergency Laparotomy

### **Post-Doctoral Research Fellows**

2007-2008	Derek Meeks MD; Evaluated predictors of compliance with surgical site infection prevention guidelines
2008-2009	Samer Arab MD; Evaluated barriers to implementation of standardized protocols in critical care, performed nested case-control study of on-demand versus mandatory relaparotomies for acute abdomen
2009-2010	Eduardo Castro-Echeverry MD, MPH: Evaluated disparities in outcomes in Harris County Hospital District cancer patients
2011-2013	Uma Phatak, MD: Evaluated variations in practice and outcome in colorectal surgery patients and Program Advisor, Masters Degree in Clinical Research (completed Spring 2014)
2011-2013	Shauna Levy, MD: Program Advisor, Masters Degree in Clinical Research (completed Spring 2014)
2012-2015	Matthew Pommerening, MD; C-STEP Advisor, Masters Degree in Clinical Research (completed Spring 2015), T32 fellow – Massive transfusion in trauma resuscitation (Primary Mentor: Bryan Cotton MD, MPH)
2013-2015	Zeinab Alawadi, MD; Program Advisor, Masters Degree in Clinical Research (completed Spring 2015)
2013-2016	Luke Putnam, MD; Program Advisor, Masters Degree in Clinical Research (completed Summer 2015)
2014-2016	Julie Holihan, MD; Program Advisor, Masters Degree in Clinical Research (completed Summer 2016)
2015-present	Krislynn Mueck, MD; Department Advisor, Masters Degree in Clinical Research (completed Spring 2017)
2015-2018	Kathryn Tinsley Anderson, MD, MPH; C-STEP Advisor (completed 2017)
2015-2017	Emma Hamilton, MD; C-STEP Advisor (completed 2017)
2016-2018	Marisa Bartz-Kurycki, MD; Program Advisor, Masters Degree in Clinical Research (Completed 2018)

2016-2018	David Nelson, MD; Program Advisor, Masters Degree in Clinical Research (completed 2018)
2017-present	Shuyan Wei, MD; Research Mentor (T32) and Department Mentor for Masters Degree in Clinical Research (completed 2019)
2017-present	Kyle Mitchell, MD; C-STEP Advisor(completed 2020)
2018-present	Gabrielle Hatton, MD; Research Mentor (T32) and Department Mentor for Masters Degree in Clinical Research (completed 2020)
2019-present	Kayla Isbell, MD; Department Mentor for Masters Degree in Clinical Research
2020-present	Shah Dodwad, DO; Department Research Mentor
2020-present	Heather Kregel, MD; Research Mentor (T32) Department Mentor for Masters Degree in Clinical Research

**Junior faculty**

2009-2015	Kougias Panagiotis MD; Baylor College of Medicine, Program Advisor, Masters Degree in Clinical Research (completed Winter 2015)
2009-2016	Curtis Wray MD; UT Health, Department Advisor, Masters Degree in Clinical Research (completed Spring 2016)
2010-present	Felix Tsai MD; Eastern Virginia Medical School, Program Advisor, Masters Degree in Clinical Research
2010-2016	Monica Lopez MD; Baylor College of Medicine, Program Advisor, Masters Degree in Clinical Research (completed Fall 2016)
2012-2020	Mike J. Liang, MD; UT Health, Primary Mentor, KL2; Department Mentor, Masters Degree in Clinical Research
2012-present	Stefanos Millas, MD; UT Health, Program Advisor, Masters Degree in Clinical Research
2013-present	Amber Luong, MD, PhD; UT Health, Mentoring Committee, KL2
2015-present	John Harvin, MD; UT Health, Program Advisor, Masters Degree in Clinical Research
2015-present	Tamara Saunders, MD; UT Health
2017-present	David Santos, MD; Assistant Professor at MD Anderson Cancer Center; Program Advisor, Masters Degree in Clinical Research
2017-present	Ching-Wei David Tzeng, MD; Assistant Professor at MD Anderson Cancer Center; Program Advisor, Masters Degree in Clinical Research
2019-present	David Meyer, MD, MS; Assistant Professor UTHealth; KL2 Mentor, Department Mentor, Masters Degree in Clinical Research
2020-present	Thaddeus Puzio, MD; Assistant Professor UTHealth
2020-present	Michael Wandling, MD, MS; Assistant Professor UTHealth

## CURRENT GRANT SUPPORT

81XWH-17-1-0631 (Michael Matthay—PI) 03/01/17 – 02/28/21

0.91 Calendar Yr.

Army Medical Research and Material Command (AMRMC) \$13,216,478

PTE: University of California, San Francisco

Mesenchymal Stem Cells for Treatment of ARDS Following Trauma

Role: Site Co-Investigator

UWSC10487 (David Talan & David Flum) 04/01/18 – 03/31/19

0.24 Calendar Yr.

Patient Centered Outcomes Research Institute \$80,000

Collaborative of Acute Care Surgery and Medicine Trialist Group (CASM)

University of Washington School of Medicine

The Comparison of Outcomes of Antibiotic Drugs and Appendectomy (CODA) Trial

Role: Site PI

W81XWH-15-1-0504 (Richard Albert—PI) 09/15/2016-06/14/2020

0.24 Calendar Yr.

US Army Med Research Materials Command

PTE: University of Colorado \$161,070

Sigh Ventilation to Reduce the Incidence and/or the Severity of the Acute Respiratory Distress Syndrome.

Role: Site PI

1U01TR002393-01 (Paula Shireman—PI) 07/25/2018-06/30/2022

1.2 Calendar Yr.

National Institutes of Health

PTE: The University of Texas Health Science Center at San Antonio \$677,600

Harnessing the power of CTSA-CDRN data networks: Using social determinants of health, frailty and functional status to identify at-risk patients and improve risk adjustment

Role: Site PI

## CURRENT MENTEE GRANT SUPPORT

2019-2022 “The Effect of Surgical Stabilization of Rib Fractures on Clinical and Patient-Centered Outcomes: A Randomized Clinical Trial”  
(PI: Meyer, Mentors: Kao, Wade, Harvin)  
KL2 Mentored Research Career Development Award

2019-2020 “Effect of Ultrasound-Guided Resuscitation on Renal Stress in Critically Ill Trauma Patients: A Pilot Study”  
(PI: Hatton, Mentors: Kao, Wade, Finkel)  
SCCM Texas Chapter Research Award



\$4,000

**PAST MENTEE GRANT SUPPORT**

- 2012-2017 "Reducing Disparities in Hepatocellular Carcinoma"  
(PI: Wray, Advisory Panel: Kao)  
American Cancer Society Mentored Grant  
\$729,000
- 2013-2016 "Randomized Double-Blinded Controlled Trial of Oral Antifungal  
for the Treatment of Fungal Sensitive Chronic Rhinosinusitis with  
Nasal Polyps" (PI: Luong, Mentors: Corry, Citardi, Wetsel, Kao)  
KL2 Mentored Research Career Development Award  
\$345,000
- 2014-2017 "Modifying Risk in Ventral Hernia Patients" (PI: Liang, Mentors:  
Kao, Berger, Hwang, Barnes)  
KL2 Mentored Research Career Development Award
- 2015-2016 "Primary Fascial Closure with Laparoscopic Ventral Hernia Repair:  
a Pilot Randomized Controlled Trial" (PI: Liang, Co-I: Holihan,  
Mentor: Kao)  
Center for Clinical and Translational Sciences Award  
\$50,000

**PAST GRANT SUPPORT**

- 2014-2015 "Timing of Inguinal Hernia Repair in Premature Infants: A  
Randomized Trial"  
(PI: Blakely, Tyson; Consultant: Kao)  
NIH/Vanderbilt University School of Medicine (1 U01HD076733)  
\$43,187
- 2012-2014 "Errors and adverse events in the setting of neonatal surgery  
performed in the neonatal intensive care unit" (PI: Tsao, co-I:  
Kao)  
NICHD – Eunice Kennedy Shriver National Institute of Child  
Health and Human Development (R21)  
\$418,000
- 2013 "A pilot randomized trial of a comprehensive transitional care  
program for medically underserved cancer surgery patients" (PI:  
Kao)  
UT Center for Healthcare Quality and Safety Grant  
\$35,000
- 2013 "How Should Surgical Residents Be Educated about Patient  
Safety in the Operating Room: a Pilot Randomized Trial" (PI:  
Tsao, co-I: Kao)  
UT Center for Healthcare Quality and Safety Grant  
\$35,000

2012 "Strategies for Preventing Healthcare Associated Infections – Putting Them into Context"  
Association for Professionals in Infection Control (APIC) Heroes of Infection Prevention Award  
(PI: Kao)  
\$50,000

2012-2013 "Implementation of Best Practices in Colorectal Surgery" (PI: Phatak, Mentors: Kao, Chang)  
American Society of Colon and Rectal Surgeons General Surgery Resident Research Initiation Grant  
\$20,000

2010-2013 "Operative Checklists: Does One Size Fit All? A Multi-Center Multi-Disciplinary Evaluation within the UT System"  
The University of Texas Clinical Safety and Effectiveness Grants Program: Collaborative Grant Application (PI: Tsai, Mentor: Kao 2010-2011; PI: Kao 2011-2012 extended to 2013)  
\$60,000

2011-2012 "Variations in Outcome for Colorectal Cancer Surgery" (PI: Phatak, Mentors: Kao, Chang)  
American Society of Colon and Rectal Surgeons General Surgery Resident Research Initiation Grant  
\$20,000

2010-2011 "Surgical Residency Training in Ethics" (Co-I: Kao)  
Washington University/American College of Surgeons  
\$2,000

2010-2011 Center for Clinical and Translational Sciences Administrative Supplement (PI: McPherson, Mentor/Teacher: Kao)  
3UL1RR024148-05S1  
\$152,091

2006-2011 "Studies on Hyperglycemia in Surgical Infections" (PI: Kao)  
NIH K23 Mentored Patient-Oriented Research Career Development Award Resubmission (1 K23 RR020020-01 A1)  
\$674,470

2007-2011 Clinical Investigator Award  
Center for Clinical Research and Evidence-Based Medicine  
\$137,496

2009-2011 The University of Texas Clinical Safety and Effectiveness Grants Program: Quality and Safety Research Grant Proposal (PI: Kao, Co-Investigators: Blackwell, Doyle, Pedroza, Tyson)  
"Checklists, Patient Safety, and Surgical Complications: Putting Innovation Into Practice"  
\$100,000

2010-2011 "Factors Associated with Infectious Complications on ECMO" (PI: Lally, Co-PI: Kao)

Extracorporeal Life Support Organization  
\$8,000

2010-2011 "Using Wikis to Improve the Dissemination, Evaluation, and Application of Evidence-Based Medicine in Surgical Practice" (PI: Kao)  
The University of Texas Academy of Health Science Education Small Grants Program  
\$5,000

2008-2011 "Modeling Glucose Variability in Critically Ill Trauma and Septic Surgical Patients" (PI: Kao)  
Subaward from University at Texas Health Science Center at San Antonio, Awarding Agency -- US Army Medical Research Acquisition Activity  
\$192,976

2006-2009 "Prevention of Surgical Site Infections"(PI: Kao)  
Robert Wood Johnson Foundation Physician Faculty Scholars Program  
\$300,000

2006-2008 "Tigecycline vs. Ceftriaxone Sodium and Metronidazole for Intra-abdominal Infection" (co-PI: Kao from August 1, 2006-May 9, 2007; PI: Kao from May 2007-2008)  
\$95,647.50

2006-2007 "Studies on Hyperglycemia in Surgical Infections" (PI: Kao)  
Intramural supplemental K23 award  
\$25,000

2004-2005 "Studies on Hyperglycemia in Surgical Infections" (PI: Kao)  
Surgical Infection Society Foundation for Research and Education Junior Faculty Fellowship Award  
\$40,000

Summer 2003 "The Impact of Hyperglycemia on Outcome in Patients with Surgical Soft Tissue Infections" (PI: Kao, Student: Matthew Knight)  
UT Houston Summer Research Program  
\$3,672.00

2002-2003 "Randomized, Open-label, Comparative Study of Zosyn (Piperacillin/Tazobactam) Administered by Daily 24 Hour Continuous Infusion vs. Zosyn q6 Hours for the Treatment of Hospitalized Patients with Complicated Intra-Abdominal Infections" (Co-Investigator)  
Wyeth Pharmaceuticals  
\$55,000

**PUBLICATIONS:**

**A. Abstracts**

List available upon request

## **B. Refereed Original Articles in Journals**

1. **Kao LS**, Nguyen T, Dominitz J, Teicher HL, Kearney DJ. Modification of a latex glove for the safe endoscopic removal of a sharp gastric foreign body. *Gastrointest Endosc* 2000; 52(1): 127-129. PMID: 10882983
2. Horvath KD, **Kao LS**, Ali A, Wherry KL, Pellegrini CA, Sinanan MN. Laparoscopic-assisted percutaneous drainage of infected pancreatic necrosis. *Surg Endosc* 2001; 15(7): 677-82. PMID: 11591967
3. Horvath KD, **Kao LS**, Wherry KL, Pellegrini CA, Sinanan MN. A technique for laparoscopic-assisted percutaneous drainage of infected pancreatic necrosis and pancreatic abscess. *Surg Endosc* 2001; 15(10): 1221-5. PMID: 11727105
4. **Kao LS**, Aaron BC, Dellinger EP. Trials and tribulations: current challenges in conducting clinical trials. *Arch Surg* 2003; 138(1): 59-62. PMID: 12511152
5. **Kao LS**, Kuhr CS, Flum DR. Collective Review: Should cholecystectomy be performed for asymptomatic cholelithiasis in transplant patients? *J Am Coll Surg* 2003; 197(2): 302-312. PMID: 12892816
6. **Kao LS**, Bulger EM, Parks DL, Byrd GF, Jurkovich GJ. Predictors of morbidity following traumatic pancreatic injury. *J Trauma* 2003; 55(5): 898-905. PMID: 14608163
7. West SD, Robinson EK, Delu AN, Ligon RE, **Kao LS**, Mercer DW. Diverticulitis in the younger patient. *Am J Surg* 2003; 186(6): 743-746. PMID: 14672789
8. **Kao LS**, Wilson EB, Anderson KD. Gender differences amongst spouses of surgeons. *Am J Surg* 2005; 189(4): 435-440. PMID: 15820456
9. **Kao LS**, Wilson EB, Anderson KD. Perceptions and predictors of surgeon satisfaction: a survey of spouses of academic surgeons. *J Am Coll Surg* 2005; 200(5): 684-690. PMID: 15848358
10. **Kao LS**, Flowers C, Flum DR. Prophylactic cholecystectomy in transplant patients: a decision analysis. *Journal Gastrointest Surg*. 2005; 9(7):965-972. PMID: 16137593
11. **Kao LS**, Knight MT, Lally KP, Mercer DW. The impact of diabetes in patients with necrotizing soft tissue infections. *Surg Infect*. 2005; 6(4): 427-438. PMID: 16433607
12. Robinson EK, Seaworth CM, Suliburk JW, Adams SD, **Kao LS**, Mercer DW. Effect of NOS inhibition on rat gastric matrix metalloproteinase production during endotoxemia. *Shock*. 2006; 25(5): 507-14. PMID: 16680016
13. **Kao LS**, Morris BH, Lally KP, Stewart CD, Huseby V, Kennedy KA. The effect of hyperglycemia on outcome in extremely low birth weight infants. *J Perinatol* 2006; 26(12): 730-6. PMID: 16929344
14. Agle SC, **Kao LS**, Moore FA, Gonzalez EA, Vercruyse GA, Todd SR. Early predictors of prolonged mechanical ventilation in major torso trauma patients who require resuscitation. *Am J Surg* 2006; 192(6): 822-7. PMID: 17161101
15. Todd SR, Holcomb JB, Kozar RA, **Kao LS**, McNally MM, Gonzalez EA, Cocanour CS, Vercruyse GA, Lygas MH, Brasseaux BK, Moore FA. A multidisciplinary clinical pathway decreases rib fracture associated infectious morbidity and mortality in high-risk trauma patients. *Am J Surg* 2006; 192(6): 806-11. PMID: 17161098

16. **Kao LS**, Todd SR, Moore FA. The impact of diabetes on outcome in traumatically injured patients: an analysis of the 2004 National Trauma Data Bank. *Am J Surg* 2006; 192(6): 710-4. PMID: 17161080
17. Yu S, Jastrow K, Clapp B, **Kao L**, Klein C, Scarborough T, Wilson E. Foreign material erosion after laparoscopic Roux-en-Y gastric bypass: findings and treatment. *Surg Endosc* 2007; 21(7): 1216-20. Epub 2007 Apr 3. PMID: 17404791
18. Kozar RA, **Kao LS**, Miller CC, Schenarts KD. Preclinical predictors of surgery shelf exam performance. *J Surg Res* 2007; 140(2): 204-7. PMID: 17509265
19. **Kao LS**, Green C. Analysis of Variance: Is there a difference and what does the difference mean? *J Surg Res* 2008; 104(1): 158-70. PMID: 17936790, PMCID: PMC2405942
20. **Kao LS**, Thomas EJ. Navigating towards improved patient safety using aviation-based strategies. *J Surg Res* 2008; 145(2): 327-35. PMID: 17477934
21. **Kao LS**, Tyson JE, Blakely ML, Lally KP. Clinical Research Methodology I: Introduction to Randomized Trials. *J Am Coll Surg* 2008; 206(2): 361-9. PMID: 18222393, PMCID: PMC2366892
22. Suliburk JW, **Kao LS**, Kozar RA, Mercer DW. Training future surgical scientists: a realities and recommendations. *Ann Surg* 2008; 247(5): 741-9. PMID: 18438110
23. Meeks DW, **Kao LS**. Controversies in appendicitis. *Surg Infect* 2008; 9(6): 553-8. PMID: 19216665
24. Todd SR, **Kao LS**, Catania A, Mercer DW, Adams SD, Moore FA. Alpha-melanocyte stimulating hormone in critically injured trauma patients. *J Trauma* 2009; 66(2): 465-9. PMID: 19204522
25. **Kao LS**, Lally KP, Thomas EJ, Tyson JE. Improving quality improvement: a methodologic framework for evaluating the effectiveness of surgical quality improvement. *J Am Coll Surg* 2009; 208(4): 621-6. PMID 19476799
26. **Kao LS**, Meeks DW, Moyer VA, Lally KP. Peri-operative glycemic control regimens for preventing surgical site infections in adults. *Cochrane Database of Systematic Reviews* 2009, Issue 3: CD006806. PMID: 19588404, PMCID: PMC2893384
27. Pugh CM, Watson A, Bell RH Jr, Brasel KJ, Purcell Jackson G, Weber SM, **Kao LS**. Surgical Education in the Internet Era. *J Surg Res* 2009 Oct;156(2):177-82. PMID: 19555973
28. Anaya DA, Bulger EM, Kwon YS, **Kao LS**, Evans H, Nathens AB. Predicting death in necrotizing soft tissue infections: a clinical score. *Surg Infect* 2009; 10(6): 517-22. PMID: 20001332
29. **Kao LS**, Lew DF, Doyle P, Carrick MM, Jordan VS, Thomas EJ, and Lally KP. A tale of two hospitals: a staggered cohort study of targeted interventions to improve compliance with antibiotic prophylaxis guidelines. *Surgery* 2010; 148 (2): 255-62. PMID: 20494387
30. Meeks DW, Lally KP, Carrick MM, Lew DF, Thomas EJ, Doyle PD, and **Kao LS**. Compliance with guidelines to prevent surgical site infections: as simple as 1-2-3? *Am J Surg* 2011 Jan; 201(1): 76-83. Epub 2010 Jun 22. PMID: 20573335, PMCID: PMC3150284.

31. **Kao LS**, Fleming GM, Escamilla RJ, Lew DF, Lally KP. Antimicrobial prophylaxis and infection surveillance in ECMO patients: a multi-institutional survey of practice patterns. *ASAIO Journal* 2011 May-Jun; 57(3): 231-8. PMID: 21317768
32. Moore LJ, McKinley BA, Turner KL, Todd SR, Sucher JF, Valdivia A, Sailor RM, **Kao LS**, Moore FA. The Epidemiology of Sepsis in General Surgery Patients. *J Trauma*. 2011 Mar;70(3):672-680. PMID: 21610358
33. **Kao LS**, Lew DF, Arab SN, Todd SR, Awad SS, Carrick MM, Corneille MG, and Lally KP. Local variation in the microbiology, epidemiology, and outcome of necrotizing soft tissue infections: a multi-center study. *Am J Surg* 2011 Aug; 202(2): 139-45. Epub 2011 May 4. PMID: 21545997
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41. Levy SM, Senter CE, Hawkins RB, Zhao JY, Doody K, **Kao LS**, Lally KP, Tsao KJ. Implementing a surgical checklist: more than checking a box. *Surgery* 2012 Sep; 152(3): 331-6. [Epub 2012 Jul 6]. PMID: 22770952
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48. Hawkins RB, Levy SM, Senter CE, Zhao JY, Doody K, **Kao LS**, Lally KP, Tsao KJ. Beyond Surgical Care Improvement Program compliance: Antibiotic prophylaxis implementation gaps. *Am J Surg* 2013 Oct; 206(4): 451-6. [Epub 2013 Jun 27] PMID: 23809676.
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50. Liang MK, Berger RL, Li LT, Davila JA, Hicks SC, **Kao LS**. Outcomes of laparoscopic versus open repair of primary ventral hernias. *JAMA Surg* 2013 Nov 1; 148(11): 1043-8. PMID: 24005537.
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53. Berger RL, Li LT, Hicks SC, Davila JA, **Kao LS**, Liang MK. Development and validation of a risk stratification score for surgical site occurrence and surgical site infection following open ventral hernia repair. *J Am Coll Surg* 2013 Dec; 217(6): 974-82. [Epub 2013 Sept 17]. PMID: 24041563.
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73. Shrestha B, Holcomb JB, Camp EA, Del Junco DJ, Cotton BA, Albarado R, Gill BS, Kozar RA, **Kao LS**, McNutt MK, Moore LJ, Love JD, Tyson GH 3<sup>rd</sup>, Adams PR, Khan S, Wade CE. Damage-control resuscitation increases successful nonoperative management rates and survival after severe blunt liver injury. *J Trauma Acute Care Surg* 2015; 78(2): 336-341. PMID: 25757120.
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### C. Invited Articles (Reviews, Editorials, etc.) in Journals

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13. Civil ID, **Kao LS**. So why would my paper be rejected? *Injury* 2014 Sep; 219(3): 588-90. PMID: 24975651.
14. **Kao LS**, Dimick JB, Porter G, et al; for the Members of the Evidence Based Reviews in Surgery Group. How do administrative data compare with a clinical registry for identifying 30-day postoperative complications? *J Am Coll Surg* 2014 Dec; 219(6): 1187-1191. PMID: 25458238.
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16. Goodenough CJ, Liang MK, **Kao LS**. Developing useful multivariable models: In reply to Xue and colleagues. *J Am Coll Surg* 2016 Jan; 222(1): 102-3. PMID: 26721756.
17. Mueck KM, Putnam LR, **Kao LS**. Improving the quality of quality improvement reporting: Standards for Quality Improvement Reporting Excellence (SQUIRE) 2.0 guidelines. *JAMA Surg* 2016 Apr 1; 15(4): 311-2. PMID 26791439.

18. **Kao LS**, Thomas EJ, Etchegaray JM. Commentary: From Innovation to Infection Prevention. *Am J Infect Control* 2016 Apr 1; 44(4): 477-9. [Epub 2016 Jan 5]. PMID: 26775933.
19. Holihan JL, **Kao LS**, Liang MK. Computer Tomography and Ventral Hernia Recurrence-Reply. *JAMA Surg* 2016 May 1; 151(5): 492-3. PMID: 26790984.
20. Holihan JL, Alawadi ZM, Harris JW, Harvin J, Shah SK, Goodenough CJ, **Kao LS**, Liang MK, Roth JS, Walker PA, Ko TC. Ventral hernia: Patient selection, treatment and management. *Curr Probl Surg* 2016 Jul; 53(7): 307-54. PMID: 27569431.
21. Mueck KM and **Kao LS**. High Risk Patients for Surgical Site Infections. *Surg Infect* 2017 May/Jun; 18(4): 440-6. PMID: 28402740.
22. Huston J, **Kao LS**, Chang PK, Sanders JM, Buckman S, Adams CA, Cocanour CC, Parli SE, Grabowski J, Diaz J, Tessier JM, Duane TM. Antibiotics versus Appendectomy for Acute Uncomplicated Appendicitis in Adults – Review of the Evidence and Future Directions. *Surg Infect* 2017 Jul; 18(5): 527-35. [Epub 2017 Jun 14]. PMID: 28641874.
23. Harvin JA and **Kao LS**. PRIMA, Non Nocere. *Lancet* 2017 Aug 5; 390(10094): 535-6. [Epub 2017 Jun 20]. PMID: 28641874.
24. Ferguson DM and **Kao LS**. Getting Started: A Social Media Primer. *Clin Colon Rectal Surg* 2017; 30(4):227-232. PMID: 28924394.
25. Speer AL and **Kao LS**. The Association for Academic Surgery 2011-Present: Standing on the Shoulders of Giants. *J Surg Res* 2017 Sep; 217:20-24. PMID: 28918958.
26. Balinger KJ and **Kao LS**. Invited Commentary – Addressing the Future Shortage in General Surgeons: Non-University Based Surgeons Come Up Anything But Short. *JAMA Surg* 2018 May 1; 153(5): 426. PMID: 29322179.
27. **Kao LS**, Ball C, Chadhury P for Members of the Evidence Based Reviews in Surgery Group. Evidence Based Reviews in Surgery: Early Cholecystectomy for Cholecystitis. *Ann Surg* 2018 Jun 18. [Epub ahead of print]. PMID: 29916874.
28. Wei S and **Kao LS**. Personalised recovery after general and gynaecologic surgery. *Lancet* 2018 June 21. [Epub ahead of print]. PMID: 29937194.
29. Wei S and **Kao LS**. Invited Commentary –Eosinopenia and Adverse Outcomes After Clostridium difficile Infections: Of Mice and Men. *JAMA Surg* 2018 Sep 12. [Epub ahead of print]. PMID: 30208383.
30. Santry HP, **Kao LS**, Shafi S, Lottenberg L, Crandall M. Pro-con debate on regionalization of emergency general surgery: controversy or Common Sense? *Trauma Surg Acute Care Open* 2019 May 19; 4(1):e000319. PMID: 31245623.
31. Hatton GE, Harvin JA, Wade CE, **Kao LS**. Regarding the relationship between 48-hour fluid balance and acute kidney injury: In reply to: Cheng and colleagues. *J Am Coll Surg* 2020 Mar 28. [Epub ahead of print]. PMID: 32234280.
32. Hatton GE, **Kao LS**. In depth: determining optimal central venous catheter length during insertion. *World J Surg* 2020 Apr 27 [Epub ahead of print]. PMID: 32342132.
33. Hatton GE, Harvin JA, Wade CE, **Kao LS**. Need for accurate assessment of volume status and fluid responsiveness in critically ill trauma patients: Reply to Xue and colleagues. *J Am Coll Surg* 2020 May 12. [Epub ahead of print]. PMID: 32414685.

34. **Kao LS.** Commentary: Comparative effectiveness research in pregnant patients with acute cholecystitis – challenges and opportunities. *Ann Surg* 2020 Jul 9 [Epub ahead of print]. PMID: 32657930.
35. **Kao LS** and McCauley JS. Evidence-based management of gallstone pancreatitis. *Adv Surg* 2020 Sep;54:173-190. Epub 2020 Jun 6. PMID: 32713429.
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37. Dodwad SJ, Wandling MW, **Kao LS.** How should SPLASH inform the care of blunt splenic trauma patients? *JAMA Surg* 2020 Sep 16 [Epub ahead of print]. PMID: 32936221.
38. Mueck KM and **Kao LS.** Invited Commentary: Applying the Swiss Cheese Model to Incisional Hernia Management: Opportunities to Reduce Excess Mortality from Acute Incarceration. *J Am Coll Surg* 2020 (in press).

#### D. Chapters

1. **Kao LS.** Traumatic Lung Hernia. In Thoracic Trauma and Critical Care. Karmy-Jones, Nathens, Stern, Editors. 2002 Kulwer.
2. **Kao LS:** Diverticulitis. In Case Files in General Surgery. Toy EC, Liu TH, editors. 2003 McGraw-Hill Inc.
3. **Kao LS:** Gastroesophageal reflux disease. In Case Files in General Surgery. Toy EC, Liu TH, editors. 2003 McGraw-Hill Inc.
4. **Kao LS,** Nathens AB. Trauma. In Source Control. Schein M and Marshall JC, Editors. 2003 Springer-Verlag.
5. Sinanan MS, **Kao LS,** Vedovatti PA. Surgery in the Elderly Population. In Principles of Geriatric Medicine & Gerontology. Hazzard et al, Editors. 2003 McGraw-Hill.
6. **Kao LS:** Diverticulitis. In Case Files in General Surgery: Second Edition. Toy EC, Liu TH, Campbell AR, editors. 2006. McGraw-Hill Inc.
7. **Kao LS:** Gastroesophageal reflux disease. In Case Files in General Surgery: Second Edition. Toy EC, Liu TH, Campbell AR, editors. 2006. McGraw-Hill Inc.
8. **Kao LS,** Liu TH. Calculous Disease of the Gallbladder and Common Bile Duct. In Modern Surgical Care: Physiologic Foundations and Clinical Applications, Third Edition. Miller, Editor. 2006 Marcel Dekker, Inc.
9. **Kao LS.** Error analysis in minimally invasive surgery. In: Park A, Klein RV, Editors. Minimally invasive surgery training: theories, methods, outcomes [Internet]. Washington: Department of Health & Human Services (US), National Institutes of Health, National Library of Medicine, 2010 January [cited 2010 May 25]; Chapter 4.
10. Kao CC, **Kao LS,** and Todd SR. Critical Care Issues in the Postoperative Period. In: Comprehensive Critical Care: Adult. Roberts PR and Todd SR, Editors. 2012 SCCM.
11. McNutt MK and **Kao LS.** Necrotizing soft tissue infections. In: Clinical Scenarios in General Surgery. Dimick J, Upchurch G, Sonnenday C, Editors. 2012 Wolters Kluwer, Lippincott Williams & Wilkins.

12. Patel B, McCarthy J, Campos T, Siska R, **Kao L**. Case 3: Improving Compliance with Surviving Sepsis Goals in Chapter 10: Case Studies in Healthcare Quality. In Quality and Strategic Planning in Health Care Organizations. Sadeghi S, Barzi A, Mikhail O, Shabot M, Editors. 2012 Jones & Bartlett Learning.
13. Lesslie DP and **Kao LS**. Spleen. In: ACS Surgery: Principles and Practice. Ashley SW, Cance WG, Chen H, Jurkovich GJ, Editors. 2014 Decker Publishing.
14. **Kao LS**. Necrotizing Soft Tissue Infections. In: Common Problems in Acute Care Surgery. Moore LJ, Turner KT, Todd SR, Editors. 2013 Springer.
15. Wiatrek RL and **Kao LS**. Tube Jejunostomy. In: Open and Laparoscopic Techniques. In: Operative Techniques in Surgery. Mulholland M, Albo D, Englesbe M, Hawn M, Hughes S, Sabel M, Dalman R, Editors. Wolters Kluwer. 2014 Lippincott Williams & Wilkins.
16. **Kao LS**. Implementation science and quality improvement. In: Success in Academic Surgery: Health Services Research. Dimick JB and Greenberg CC, Editors. 2014 Springer.
17. Person J and **Kao LS**. The use of routine and selective intraoperative cholangiography. In: Acute Cholecystitis. Eachempati SR and Reed RL, Editors. 2015 Springer.
18. Goodenough CJ and **Kao LS**. Endocrine Changes in Critical Illness. In Current Surgical Therapy (12<sup>th</sup> Edition). Cameron JL and Cameron AM, Editors. Elsevier 2016.
19. Mueck KM and **Kao LS**. Necrotizing Soft Tissue Infections. In Common Problems in Acute Care Surgery (2<sup>nd</sup> Edition). Moore LJ and Todd SR, Editors. Springer 2017.
20. **Kao LS**. Quality Improvement in Surgery. In Success in Academic Surgery: Surgical Quality Improvement. Kelz and Wong, Editors. 2017 Springer.
21. Kao CC, Musonza T, **Kao LS**, and Todd SR. Critical Care Issues in the Postoperative Period. In: Comprehensive Critical Care: Adult 2<sup>nd</sup> Edition. Roberts PR and Todd SR, Editors. 2017 SCCM.
22. Phatak UR and **Kao LS**. Responsibilities of the Mentee. In Mentorship and Leadership: Building for Success in Academic Surgery. Scoggins, Pollock, Pawlik, Editors. 2018 Springer.
23. **Kao LS** and Zenilman ME. Web-based Education and Social Media in Surgery. In Schwartz' Principles of Surgery, 11<sup>th</sup> edition. Brunnicardi, Andersen, Billiar, Dunn, Hunter, Kao, Matthews, and Pollock, Editors. 2019 McGraw-Hill.
24. Wei S and **Kao LS**. Small Bowel Sources of GI Bleeding. In Emergency General Surgery: A Practical Approach. Brown, Inaba, Martin, Salim, Editors. 2019 Springer.
25. Person J and **Kao LS**. Trauma and Disaster Management. In Anesthesiology Critical Care Board Review 1<sup>st</sup> Edition. Williams, Grewal, Popovich, Editors. 2019 Oxford.
26. Donahue TJ and **Kao LS**. Multisystem Trauma. In Perioperative Medicine: Managing for Outcome. Newman, Fleisher, Ko, Mythen, Editors. 2020 Elsevier.

#### E. Books

1. **Kao LS** (editor). Pre-Test Surgery, Eleventh Edition. 2006 McGraw-Hill.
2. **Kao LS** and Lee T (editors). Pre-Test Surgery, Twelfth Edition. 2009 McGraw-Hill.
3. Chen H and **Kao LS** (editors). Success in Academic Surgery: Part I. 2011 Springer.

4. **Kao LS** and Lee T (editors). Pre-Test Surgery, Thirteenth Edition. 2012 McGraw-Hill.
5. Pugh C and Sippel R (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Developing a Career in Surgical Education. 2013 Springer.
6. Kibbe M and LeMaire S (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Basic Science. 2013 Springer.
7. Pawlik T and Sosa J (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Clinical Trials. 2013 Springer.
8. Dimick JB and Greenberg CC (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Health Services Research. 2014 Springer.
9. Kibbe MR and Chen H (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Leadership in Surgery. 2015 Springer.
10. Swaroop M and Krishnaswami S (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Academic Global Surgery. 2016 Springer.
11. Kelz RR and Wong SL (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Surgical Quality Improvement. 2017 Springer.
12. Englesbe MJ and Meyers MO (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: A How to Guide for Medical Students. 2017 Springer.
13. Chen H and **Kao LS** (editors). Success in Academic Surgery (2<sup>nd</sup> edition). 2017 Springer.
14. Dimick JB, Upchurch Jr GR, Sonnenday CJ, **Kao LS** (editors). Clinical Scenarios in Surgery: Decision Making and Operative Technique, 2<sup>nd</sup> edition. 2018 Wolters Kluwer.
15. Scoggins C, Pollock R, Pawlik T (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Surgical Mentorship and Leadership: Building for Success in Academic Surgery. 2018 Springer.
16. Brunicaudi F, Anderson DK, Biliar TR, Dunn DL, Hunter JG, **Kao LS**, Matthews JB, Pollock RE (editors). Schwartz's Principles of Surgery, 11e. 2019 McGraw-Hill.
17. Cohen M and **Kao LS** (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Innovation and Entrepreneurship. 2019 Springer.
18. Kennedy G, Gosain A, Kibbe M, LeMaire SA (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Basic Science (2<sup>nd</sup> edition). 2019 Springer.
19. Pugh CM and Sippel RS (book editors). **Kao L** and Chen H (series editors). Success in Academic Surgery: Developing a Career in Surgical Education (2<sup>nd</sup> edition). 2019 Springer.
20. **Kao LS**, Duncan C, and Taub E (editors). PreTest Surgery, Fourteenth Edition. 2019 McGraw-Hill.
21. Dimick JB and Lubitz CC (book editors). **Kao L** and Chen H (Success in Academic Surgery series editors). Health Services Research (2<sup>nd</sup> edition). 2020 Springer.
22. Kim E and Lindeman B (book editors). **Kao L** and Chen H (Success in Academic Surgery series editors). Wellbeing. 2020 Springer.

## F. Web Publications



1. **Kao LS** and Moloney D. "Methodology Review: Effect of population-based screening with prostate-specific antigen (PSA) on prostate cancer mortality." *AUANet*. Dec 2009. Web.
2. **Kao LS** and Lasky RE. "Methodology Review: Sipuleucel-T immunotherapy for castration-resistant prostate cancer." *AUANet*. Dec 2010. Web.
3. Kao LS. "Methodological Review: Antibiotics vs. Surgery in acute appendicitis." *Evidence Based Reviews in Surgery*. October 2012. Web.
4. Shah J and **Kao LS**. "Methodology Review: Radiotherapy with or without chemotherapy in muscle-invasive bladder cancer." *AUANet* April 2013. Web.
5. **Kao LS**. "Intra-abdominal abscess." *BMJ Point of Care* 2013. Web.
6. **Kao LS**. "Update 2014 – Intra-abdominal abscess." *BMJ Point of Care* 2014. Web.
7. **Kao LS**. "Update 2015 – Intra-abdominal abscess." *BMJ Point of Care* 2015. Web.
8. **Kao LS**. "March 2016 Journal Club." *Annals of Surgery Journal Club*. Web.
9. **Kao LS**. "Update 2016 – Intra-abdominal abscess." *BMJ Point of Care* 2016. Web.
10. Kreiner L and **Kao LS**. "Update 2017 – Intra-abdominal abscess." *BMJ Point of Care* 2017. Web.
11. Padilla-Jones B and **Kao LS**. "Diagnostic Approach to infection." *The Surgical Council on Resident Education (SCORE) Portal*. 2018. Web (in press).

## **G. Other Professional Communications**

1. *Presentations –International*
  - i. "Towards Evidence-Based Surgery" Taiwan Surgical Association, March 2010, Taipei, Taiwan.
  - ii. "What You Need to Know About Statistics for Clinical Research" Colombian Surgical Association, July 2010, Bogota, Colombia
  - iii. "Developing Networks for Collaborative Research" Colombian Surgical Association, July 2010, Bogota, Colombia
  - iv. "Controversies in the Management of Appendicitis" Colombian Surgical Association, July 2010, Bogota, Colombia
  - v. "Introduction to Clinical Trials" Fundamentals of Research and Career Development Course, Association for Academic Surgery, November 2010, Abuja, Nigeria.
  - vi. "Advancing Surgical Research in Evidence-Based Practice and Quality Improvement" The Alfred, National Trauma Research Institute, April 2011, Melbourne, Australia.
  - vii. "Analysing Your Data" Developing a Career in Academic Surgery, Association for Academic Surgery/Royal Australasian College of Surgeons, May 2011, Adelaide, Australia.
  - viii. "Pelvic Trauma – More Than Blood and Bone" Royal Australasian College of Surgeons, May 2011, Adelaide, Australia.

- ix. "Design, Power, and Statistics" French Research Course at the Academie Nationale de Chirurgie, Association for Academic Surgery/French Surgical Association, October 2011, Paris, France.
- x. "Developing Networks for Collaborative Research" French Research Course at the Academie Nationale de Chirurgie, Association for Academic Surgery/French Surgical Association, October 2011, Paris, France.
- xi. "Understanding Statistics for Clinical Research and Trials" Developing a Career in Academic Surgery, Association for Academic Surgery/Royal Australasian College of Surgeons, May 2012, Kuala Lumpur, Malaysia
- xii. "Nutrition in Burns" Royal Australasian College of Surgeons, May 2012, Kuala Lumpur, Malaysia
- xiii. "Critical Appraisal of the Literature" Australasian Students' Surgical Conference, May 2013, Auckland, New Zealand
- xiv. "Bedside to Bench to Bedside" Developing a Career in Academic Surgery, Association for Academic Surgery/Royal Australasian College of Surgeons, May 2013, Auckland, New Zealand
- xv. "How do you select, train, and measure a good mentor?" Royal Australasian College of Surgeons, May 2013, Auckland, New Zealand
- xvi. "Battle Hymn of the Tiger Surgeon" Women in Surgery Session, Royal Australasian College of Surgeons, May 2013, Auckland, New Zealand
- xvii. "What you need to know about statistics for surgical research" Career Development Course for Academic Surgeons, Association for Academic Surgery/International Society for Digestive Surgery/World Journal of Surgery/International Association for Surgical Metabolism and Nutrition, August 2013, Helsinki, Finland
- xviii. "Developing Networks for Collaborative Research" Career Development Course for Academic Surgeons, Association for Academic Surgery/International Society for Digestive Surgery/World Journal of Surgery/International Association for Surgical Metabolism and Nutrition, August 2013, Helsinki, Finland
- xix. "Health services research improving outcomes of challenged populations" Westmead Hospital International Professorial Symposium, May 2018, Sydney, Australia
- xx. "Implementation and deimplementation of therapies – what evidence is necessary?" Westmead Hospital International Professorial Symposium, May 2018, Sydney, Australia
- xxi. "The Future of Surgery: #YouLookLikeASurgeon" Australasian Students' Surgical Conference, Invited Keynote Address, May 2018, Sydney, Australia
- xxii. "Work-Life Balance" Developing a Career and skills in Academic Surgery (DCAS) Course, Association for Academic Surgery in partnership with the Royal Australasian College of Surgeons Section of Academic Surgery, May 2018, Sydney, Australia
- xxiii. "Frozen Calot's during laparoscopic cholecystectomy" Royal Australasian College of Surgeons Annual Scientific Congress, May 2018, Sydney, Australia



- xxiv. "Glycaemic control" Royal Australasian College of Surgeons Annual Scientific Congress, May 2018, Sydney, Australia
- xxv. "Delirium prediction tools" Royal Australasian College of Surgeons Annual Scientific Congress, May 2018, Sydney, Australia

*Presentations – National*

- i. "Education Research" Fundamentals of Surgical Research Course, Chicago, Illinois, 2006.
- ii. "Controversies in Appendicitis" Surgical Infection Society, Toronto, Canada, 2007.
- iii. "Should hyperglycemia or glucose variability be the endpoint for intensive insulin treatment?" Conference for the Development of Closed-Loop Control of Intensive Insulin Treatment (IIT) in the Care of the Critically Injured Patient, sponsored by USA MRMC, NIH, NASA, and the Juvenile Diabetes Research Foundation, 2007, Bethesda, MD.
- iv. "Critical Care" American College of Surgeons General Surgery Review Course, New Orleans, Louisiana, 2007.
- v. "Critical Care: Endocrine and Infections" General Surgery Review Course, American College of Surgeons, October 2008, San Francisco, CA.
- vi. "Statistics Made Simple" Fundamentals of Surgical Research Course, Association for Academic Surgery, October 2008, San Francisco, CA.
- vii. "Understanding Barriers to Implementation of SCIP Guidelines" Surgical Outcomes Club, October 2008, San Francisco, CA.
- viii. "IV Insulin Therapy: How Tight of Control Do We Need?" Sepsis: Strategies for Early Detection and Effective Intervention, American College of Surgeons, October 2008, San Francisco, CA.
- ix. "The Clinical Surgeon-Scientist: An Oxymoron or New Paradigm" University of Wisconsin Department of Surgery Grand Rounds, April 2009, Madison, Wisconsin.
- x. "Design, Power, and Statistics" Developing a Career in Academic Surgery Course, May 2009, Brisbane, Australia.
- xi. "Advancing the Science of Surgical Quality Improvement" Medical College of Wisconsin Department of Surgery Grand Rounds, May 2009, Milwaukee, Wisconsin.
- xii. "Tight Glycemic Control: Is the Debate Over" Medical College of Wisconsin Multi-Disciplinary Critical Care Rounds, May 2009, Milwaukee, Wisconsin.
- xiii. "Funding for Clinical Outcomes Research" Fundamentals of Surgical Research Course, Association for Academic Surgery, October 2009, Chicago, IL.
- xiv. "Funding for Clinical Outcomes Research" Fundamentals of Surgical Research Course, Association for Academic Surgery, October 2010, Washington DC.
- xv. "Management of the Perforated Appendix/Phlegmon" Appendicitis Disasters: Options to Optimize Outcome, American College of Surgeons, October 2010, Washington DC.
- xvi. "Glucose Control: Do You Like It Sweet?" Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) Meeting, September 2011, Chicago, Illinois.

- xvii. "Understanding Statistics for Clinical Research and Trials" Fundamentals of Surgical Research Course, Association for Academic Surgery, October 2011, San Francisco, California
- xviii. "Navigating the alphabet soup of grants and funding agencies: Which grant is right for you?" Career Development Course, Association for Academic Surgery, October 2011, San Francisco, California
- xix. "Glycemic control and prevention of surgical site infection" Annual Update Symposium, Surgical Infection Society, April 2012, Dallas, Texas
- xx. "Meta-analyses and systematic reviews" Fundamentals of Surgical Research Course, Association for Academic Surgery, September 2012, Chicago, Illinois
- xxi. "Navigating the alphabet soup of grants (K, R, B, P, etc) and funding agencies: Which grant is right for you? Career Development Course, Association for Academic Surgery, September 2012, Chicago, Illinois
- xxii. "Evidence-Based Reviews in Surgery: Mechanical Bowel Prep – To Prep or Not to Prep in Rectal Cancer Surgery (panel discussion)" American College of Surgeons Fall Clinical Congress, September 2012, Chicago, Illinois
- xxiii. "Candidate, Career Goals, and Bibliography" AAS/SUS Surgical Investigators' Course: The Grant-Writing Workshop, Academic Surgical Congress, February 2013, New Orleans, Louisiana
- xxiv. "Basic statistics for laboratory research" Fundamentals of Surgical Research Course, Association for Academic Surgery, October 2013, Washington DC
- xxv. "How to get involved and contribute through participation in surgical societies" Career Development Course, Association for Academic Surgery, October 2013, Washington DC
- xxvi. "Is evidence enough to improve surgical quality?" University of Pittsburgh Department of Surgery Grand Rounds, October 2013, Pittsburgh, Pennsylvania
- xxvii. "Candidate Statement and Career Development Plan" AAS/SUS Surgical Investigators' Course: The Grant-Writing Workshop, February 2014, San Diego, California
- xxviii. "Real World Versus Ivory Tower: The Challenge for Academic Surgery" Association for Academic Surgery Presidential Address, Academic Surgical Congress, February 2014, San Diego, California
- xxix. "Contraindications to Mesh Placement for the Ventral Hernia" University of Wisconsin Current Topics in General Surgery CME Course, April 2014, Madison, Wisconsin
- xxx. "Management of Acute Diverticulitis" University of Wisconsin Current Topics in General Surgery CME Course, April 2014, Madison, Wisconsin
- xxxi. "Leadership Skills: The President" American College of Surgeons National Surgical Quality Improvement Project Meeting, July 2014, New York, New York
- xxxii. "Quality of Care and Implementation Science" Fundamentals of Surgical Research Course, Association for Academic Surgery, October 2014, San Francisco, California
- xxxiii. "Funding Sources for the Young Investigator in the Era of Diminished NIH Funding Prospects – Other Possible Strategies" Career Development Course, October 2014, San Francisco, California

- xxxiv. "Implementation of Evidence-based Practices to Reduce Disparities in Surgical Outcomes" Surgical Biology Club II, October 2014, San Francisco, California
- xxxv. "Endocrine, Electrolytes" Didactic Course 25: Annual Update in Surgical Critical Care, American College of Surgeons Clinical Congress, October 2014, San Francisco, California
- xxxvi. "Developing the Candidate Statement & Career Development Plan" Surgical Investigators Course: The Grant Writing Workshop, Academic Surgical Congress, February 2015, Las Vegas, Nevada
- xxxvii. "DEBATE: Acute diverticulitis: Lavage or resect? Anastomose or divert?" Surgical Infection Update Symposium, Surgical Infection Society, April 2015, Westlake Village, California
- xxxviii. "The Intersection Between Quality Improvement, Evidence-Based Practice, & Research" Paul E Hodgson Lectureship, University of Nebraska Department of Surgery Grand Rounds, May 2015, Omaha, Nebraska
- xxxix. "Team Building: The President" Residents as Leaders Session, National Surgical Quality Improvement Project Conference, July 2015, Chicago, Illinois
  - xl. "Quality Improvement: Is There a Science to It?" Surgical Outcomes Club AAS/SUS Didactic Session (Webinar), September 2015
  - xli. "Dissemination and Implementation Science" Fundamentals of Surgical Research Course, October 2015, Chicago, Illinois
  - xliv. "Taking It to the Next Level: Advanced Degrees and Surgical Societies" Career Development Course, October 2015, Chicago, Illinois
  - xlvi. "Endocrine and Electrolytes" Annual Update in Surgical Critical Care, American College of Surgeons Clinical Congress, October 2015, Chicago, Illinois
  - xliv. "Developing the Candidate Statement & Career Development Plan" Surgical Investigators Course: The Grant Writing Workshop, Academic Surgical Congress, February 2016, Jacksonville, Florida
  - xlvi. "The Do's and Don'ts of Writing an NIH K23 Application" Surgical Investigators Course: The Grant Writing Workshop, Academic Surgical Congress, February 2016, Jacksonville, Florida
  - xlvi. "What the #eck is Social Media, and Why Should I Care?" Luncheon Symposium: Social Media: Basics and Beyond – What's in It for Me? The American Society of Colon and Rectal Surgeons Annual Scientific Meeting, May 2016, Los Angeles, California
  - xlvii. "High Risk Patients" Surgical Update Symposium, Surgical Infection Society, May 2016, Palm Beach, Florida
  - xlviii. "PRO-CON Debate: Appendectomy versus antibiotics for uncomplicated appendicitis" Surgical Infection Society, May 2016, Palm Beach, Florida
  - xliv. "Surgical Anatomy for Adult SCRs: Ventral Hernias" American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) Annual Conference, July 2016, San Diego, California
    - I. "Big Picture Lessons for Resident Education on Quality Improvement" American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) Annual Conference, July 2016, San Diego, California

- li. "The Importance of Culture: The President" American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) Annual Conference, July 2016, San Diego, California
- lii. "Preventing Failure to Rescue from Sepsis" American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) Annual Conference, July 2016, San Diego, California
- liii. "When Life Gives You Lemons: Reducing Surgical Disparities at a Safety-Net Hospital" University of Maryland Department of Surgery Grand Rounds, October 2016, Baltimore, Maryland
- liv. "Comparative Effectiveness" Association for Academic Surgery Fall Courses, October 2016, Washington DC
- lv. "The Process" American College of Surgeons Residents Leading Quality Course, October 2016, Washington DC
- lvi. "Benign Hepatobiliary Disease" American College of Surgeons General Surgery Review Course, October 2016, Washington DC
- lvii. "Implementation of Evidence into Academic Practice" MedStar-Georgetown Surgical Outcomes Research Center Research Meeting (invited speaker), November 2016, Washington DC
- lviii. "Developing the Candidate Statement & Career Development Plan" Surgical Investigators Course: The Grant Writing Workshop, Academic Surgical Congress, February 2017, Las Vegas, Nevada
- lix. "Past Presidents' Reflections on the First 5 Decades of the Association for Academic Surgery" Panelist and Speaker, Academic Surgical Congress, February 2017, Las Vegas, Nevada
- lx. "Responsible Preoperative Antibiotic Prophylaxis" Update Symposium II—Antibiotic Stewardship, Surgical Infection Society, May 2017, Saint Louis, Missouri
- lxi. "Deep Dive and Overview of QI Tools" American College of Surgeons Quality and Safety Conference, July 2017, New York, NY
- lxii. "Overview of Process Improvement" American College of Surgeons Quality and Safety Conference, July 2017, New York, NY
- lxiii. "C Diff Colitis and Loop Ileostomy with Lavage" Emergency General Surgery: Annual Update, American College of Surgeons Fall Clinical Congress, October 2017, San Diego, California
- lxiv. "Benign Hepatobiliary Disease" General Surgery Review Course, American College of Surgeons Fall Clinical Congress, October 2017, San Diego, California
- lxv. "Overcoming Barriers to Randomized Clinical Trials in Surgery" Surgical Outcomes Club AAS/SUS Didactic Session (Webinar), December 2017
- lxvi. "Quality Outcomes Through Teamwork: NSQIP" 9<sup>th</sup> Annual International Women in Surgery Career Symposium, February 2018, Clearwater Beach, Florida
- lxvii. "Addressing Priorities for Surgical Disparities Research at a Safety-Net Hospital" University of Toledo Medical Center Department of Surgery Grand Rounds, March 2018, Toledo, Ohio
- lxviii. "Deep Dive and Overview of QI Tools" American College of Surgeons Quality and Safety Conference, July 2018, Orlando, Florida

- lxix. "Standardizing for Efficiency: Enhanced Recovery" American College of Surgeons Quality and Safety Conference, July 2018, Orlando, Florida
- lxx. "Controversy or Common Sense? Regionalization of Emergency General Surgery: CON" The American Association for the Surgery of Trauma Conference, September 2018, San Diego, California
- lxxi. "Kickoff Lecture - Success in Academic Surgery: Putting the Puzzle Pieces Together" Fundamentals of Surgical Research Course, Association for Academic Surgery Fall Courses, October 2018, Boston, Massachusetts
- lxxii. "Pearls for Promotion" Early Career Development Course, Association for Academic Surgery Fall Courses, October 2018, Boston, Massachusetts
- lxxiii. "QI 101" AHRQ Safety Program for Improving Surgical Care and Recovery (ISCR) National Leader Webinar, November 2018 (online).
- lxxiv. "Aligning Quality Improvement, Clinical Practice, and Research?" Thomas F. Dodson Lectureship, Department of Surgery Grand Rounds, Emory School of Medicine, January 2019, Atlanta, Georgia.
- lxxv. "Identifying the Opportunities: Deciding to Stay" SUS Mid-Career Academic Surgery Professional Development Course, Academic Surgical Congress, February 2019, Houston, Texas.
- lxxvi. "Academic Surgery and the Art of the Pivot" 3<sup>rd</sup> Annual Resident Research Symposium and J. Englebert Dunphy Visiting Professor, Department of Surgery, University of California San Francisco, April 17, 2019, San Francisco, California.
- lxxvii. "Surgical Quality Improvement: How Do We Move the Needle?" Department of Surgery Grand Rounds, The University of North Carolina at Chapel Hill School of Medicine, April 24, 2019, Chapel Hill, North Carolina
- lxxviii. "Overview of the QI Process" American College of Surgeons Quality and Safety Conference, July 2019, Washington DC
- lxxix. "What are the Essentials for Achieving Surgical Quality and Safety?" American College of Surgeons Quality and Safety Conference, July 2019, Washington DC
- lxxx. "Learning Healthcare Systems: Empowering Surgeons to Move the Needle" John R. Clarke Lectureship, Philadelphia Academy of Surgery, January 2020, Philadelphia, Pennsylvania
- lxxxii. "Personal Development" Surgical Research Boot Camp: From Idea to Publication, Funding, and Beyond. The 33<sup>rd</sup> Eastern Association for the Surgery of Trauma (EAST) Annual Scientific Assembly, January 15 2020, Orlando, Florida.
- lxxxiii. "Overview of the QI Process" American College of Surgeons Quality and Safety Conference, August 2020 (virtual)
- lxxxiii. "Essential QI Tools" American College of Surgeons Quality and Safety Conference, August 2020 (virtual)
- lxxxiv. "Picking the Right Tool for the Right Job" American College of Surgeons Quality and Safety Conference, August 2020 (virtual)

*Presentations – Local/Regional Meetings*

- i. "Acute echinococcal cyst disease of the liver" Seattle Surgical Society, 2000, Seattle, WA.

- ii. "Laparoscopic-assisted percutaneous drainage of infected pancreatic fluid collections" Washington Chapter of American College of Surgeons, 2000, Lake Chelan, WA.
- iii. "The Surgical Treatment of Constipation" University of Washington Department of Surgery Grand Rounds, 2000.
- iv. "The impact of complications of traumatic pancreatic injury" Washington Chapter of American College of Surgeons, 2001, Skamania, WA.
- v. "Hepatic pseudoaneurysm after radiofrequency ablation of liver metastases: a case report" Washington Chapter of American College of Surgeons, 2001, Skamania, WA.
- vi. "Sacrectomy for recurrent colorectal cancer" Northwest Society of Colon and Rectal Surgeons, 2001, Sun Valley, ID.
- vii. "Non-resectional Therapies for the Treatment of Primary and Metastatic Liver Tumors" What's New in General Surgery, The Henry N. Harkins Surgical Symposium, 2001, Seattle, WA.
- viii. "Sclerosing pancreatitis presenting as a pancreatic mass: a case report and a review of the literature" Seattle Surgical Society, 2002, Seattle, WA.
- ix. "Predictors of morbidity in pancreatic trauma" Seattle Surgical Society, 2002, Seattle, WA.
- x. "Is prophylactic cholecystectomy indicated in the cardiac transplant patient?" Washington Chapter of American College of Surgeons, 2002, Lake Chelan, WA.
- xi. "Radiofrequency ablation as a bridge to transplantation for hepatocellular carcinoma" Washington Chapter of American College of Surgeons, 2002, Lake Chelan, WA.
- xii. "Hepatic Anatomy and Ultrasound" Ultrasound-Guided RFA for Liver Tumors Course, 2002, Seattle, WA.
- xiii. "Surgical Simulation" UT-HSC Department of Surgery Grand Rounds, 2003.
- xiv. "Hyperglycemia in Surgical Patients" UT-HSC Department of Urology Grand Rounds, 2004.
- xv. "Hyperglycemia and Surgical Outcome" UT-HSC Department of Surgery Grand Rounds, 2004.
- xvi. "Critical Appraisal of the Literature: A Practical Guide to EBM for Surgeons" UT-HSC Department of Surgery Grand Rounds, 2005.
- xvii. "Critical Appraisal of the Literature: A Practical Guide to EBM for Surgeons" UT-HSC Department of Surgery Grand Rounds, 2006.
- xviii. "Statistics for the In-Training Exam" UT-HSC Department of Anesthesiology Teaching Rounds, 2007.
- xix. "Who's Down with P4P? Prevention of Surgical Site Infections" UTHSC Department of Surgery Grand Rounds, 2008.
- xx. "Statistics for the In-Service Training Examination" UTHSC Department of Anesthesiology Grand Rounds, 2008.
- xxi. "Surgical Site Infections: Is an ounce of prevention enough to cure the problem?" Houston Surgical Society, January 2009, Houston, TX.



- xxii. "Statistics for the In-Training Exam" UT-HSC Department of Anesthesiology Teaching Rounds, 2009, Houston, TX.
- xxiii. "Necrotizing Soft Tissue Infections: A Clinical and Microbiological Update" UT-HSC Department of Surgery Grand Rounds, October 2009, Houston, TX.
- xxiv. "The Research Track: What Does That Take?" Women in Surgery Career Development Seminar, November 2009, Houston, TX.
- xxv. "Setting Up Your Mentoring System" Women in Surgery Career Development Seminar, November 2009, Houston, TX.
- xxvi. "Basic Statistics" UT-HSC Plastic Surgery Grand Rounds, February 2010, Houston, TX.
- xxvii. "Statistics for Anesthesiologists" UT-HSC Department of Anesthesiology Grand Rounds, February 2010, Houston, TX.
- xxviii. "EBM and M&M: Evidence not Eminence-Based Medicine at Surgical Morbidity and Mortality Conference" UT-HSC Department of Surgery Grand Rounds, August 2010, Houston, TX.
- xxix. "Can Pay For Performance Prevent Surgical Site Infections?" UT-HSC Medical Student Chapter of Institute for Healthcare Improvement, September 2010, Houston, TX
- xxx. "Statistics for Anesthesiologists" UT-HSC Department of Anesthesiology, Grand Rounds, March 2011, Houston, TX.
- xxxi. "Quantitative Designs and Quality Improvement: When are RCTs necessary?" Baylor College of Medicine and Texas Children's Hospital Center for Clinical Effectiveness Health Services Research Forum, June 2011, Houston, TX.
- xxxii. "When is evidence sufficient to change care? How to critically evaluate critical care literature" UT Health and UT San Antonio VTC conference, July 2011, Houston and San Antonio, TX.
- xxxiii. "When I was a resident: How evidence has changed surgical practice (or has it?)" UT Health Department of Surgery Grand Rounds, August 2011, Houston, TX
- xxxiv. "Disclosures of surgical errors" UT Health Department of Surgery Grand Rounds (with Eric Thomas, Catherine Thompson, John Potts), September 2011, Houston, TX
- xxxv. "Do these results compute? How to use statistics to interpret the literature" Baylor College of Medicine Surgery Residents Research Conference, November 2011, Houston, TX
- xxxvi. "How to evaluate RCTs (and why it is important to know how?)" UT Health Pulmonary and Critical Care Grand Rounds, January 13, 2012, Houston, TX
- xxxvii. "SCIP'ing Ahead: What is the future of prevention of surgical site infections?" Baylor College of Medicine, Department of Surgery Grand Rounds, January 18, 2012, Houston, TX
- xxxviii. "Medical statistics" UT Health Pulmonary and Critical Care Grand Rounds, January 27, 2012, Houston, TX
- xxxix. "Quality Improvement: QI Research Methodology" Pediatric Emergency Medicine Research Symposium, Texas Children's Hospital, May 31, 2012, Houston, TX



- xl. "Annual statistics update for anesthesia" UT Health Department of Anesthesiology Grand Rounds, July 25, 2012
- xli. "Statistics for the Plastic Surgeon" UT Health Department of Surgery, Division of Plastic Surgery Conference, October 15, 2012
- xlii. "Surgical Site Infection Prevention: Doing the Right Things Right" UT Health Institute for Healthcare Improvement Lecture Series, November 13, 2012
- xliii. "Strategies for prevention of surgical site infections: putting them into context" Webinar, Texas Hospital Association's Center for Quality and Patient Safety, April 10, 2013
- xliv. "Implementing evidence-based practices at a safety-net hospital to reduce disparities in surgical outcomes." Houston Veterans Affairs Health Services Research and Development Center of Excellence, April 12, 2013
- xlv. "Why should you be a surgeon?" Camp Cardiac, August 1, 2013
- xlvi. "Can evidence-based practice reduce disparities in surgical outcomes at a safety-net hospital? UT Health Department of Surgery Grand Rounds, September 5, 2013
- xlvii. "Introduction to surgical quality improvement research" UT Blue Book Lecture Series – Leading Healthcare in Two Directions: Quality Up, Cost Down, Houston, TX, September 5, 2013
- xlviii. "Women in Surgery: Introduction to Clinical Research" Women in Surgery Blue Book Lecture Series, September 30, 2013
- xlix. "Introduction to clinical research II" UT Health Division of Pulmonary and Critical Care Grand Rounds, September 13, 2013
  - I. "Surgical emergencies for the medical intensivist" Baylor College of Medicine, Pulmonary and Critical Care Division Fellows Core Curriculum Conference, November 19, 2013
  - li. "Putting everything into context" University of Texas Health Science Center at Houston, Department of Surgery Grand Rounds, December 4, 2014
  - lii. "Social Media in Academic Surgery: What is all the 'Twitter' about?" University of Texas Health Science Center, Department of Cardiothoracic and Vascular Surgery Grand Rounds, March 27, 2015.
  - liii. "Colorectal cancer disparities in minority patients: population, provider, and patient-level contributing factors to late diagnosis and treatment" Texas Surgical Society Meeting, Galveston, Texas, April 11, 2015.
  - liv. "Social media for surgeons" University of Texas Health Science Center at Houston, Department of Surgery Grand Rounds, July 16, 2015.
  - lv. "Why is quality improvement important to surgeons?" UT Blue Book Lecture Series – Leading Healthcare in Two Directions: Quality Up, Cost Down, Houston, TX, September 24, 2015
  - lvi. "Statistics for Surgical Research" University of Texas Health Science Center at Houston, Plastic Surgery Grand Rounds, October 29, 2015.
  - lvii. "Interpreting Clinical Trials in Critical Care" TRISAT Critical Care Training Consortium Webcast Lecture Series, December 8, 2015.

- lviii. "Statistics for Pulmonary and Critical Care Research" Pulmonary and Critical Care Medicine Fellowship Lecture, University of Texas Health Science Center at Houston, February 22, 2016.
- lix. "Quality Improvement Research Workshop" Department of Pediatrics-Hospital Medicine, Baylor College of Medicine/Texas Children's Hospital, March 29, 2016.
- lx. "Study Designs for QI and Implementation Science" Memorial Hermann's Clinical Safety and Effectiveness Program, April 8, 2016
- lxi. "Study Designs and Statistics for Endocrine Research: Lessons Learned from Tight Glycemic Control" Endocrine Fellows Conference, University of Texas Health Science Center at Houston, April 28, 2016
- lxii. "How and Why to Engage in QI" LBJ Quality Improvement Lecture Series, April 29, 2016.
- lxiii. "The Great Debate: Treatment of Appendicitis Surgery vs. Antibiotics Alone" Houston Surgical Society, June 27, 2016.
- lxiv. "Interpreting Trials in Critical Care" UT Health and UT San Antonio VTC conference, September 6, 2016, Houston and San Antonio, TX.
- lxv. "TASQ'ing the Texas Surgical Society to Engage in a Statewide Surgical Quality Improvement Collaborative" Texas Surgical Society, October 1, 2016, Dallas, TX.
- lxvi. "Surgery: A Game of Risk?" Houston Methodist Hospital Department of Surgery Grand Rounds, October 26, 2016, Houston, TX
- lxvii. "QI Basics for Plastic Surgeons", Division of Plastics Surgery Research Conference, McGovern Medical School, October 27, 2016, Houston, TX
- lxviii. "Improving Surgical Quality at a Safety-Net Hospital" Women in Surgery Blue Book Lecture Series, McGovern Medical School, October 27, 2016, Houston, TX.
- lxix. "Infection Control in Surgery: Surgical Site Infections Guidelines and Beyond" Association of Surgical Assistants Spring Meeting, March 11, 2017, Houston, TX
- lxx. "The Death of Appendectomy" Surgical Disruptive Technology Summit, March 20, 2017, Houston, TX
- lxxi. "Statistics" Joint Critical Care Core Lecture Series, Baylor College of Medicine, June 1, 2017, Houston, TX
- lxxii. "Developing Learning Health Systems: the TASQ at Hand" Department of Surgery Grand Rounds, June 21, 2017, University of Texas Medical Branch, Galveston, TX.
- lxxiii. "Developing Learning Health Systems to Address Surgical Disparities" Surgical Oncology Grand Rounds, November 8, 2017, MD Anderson, Houston, TX.
- lxxiv. "Team Building" Texas Multi-Institutional Women Surgeons Career Development Program, February 26, 2018, Houston, TX
- lxxv. "Learning Trauma Systems" The Future of Trauma and Acute Care Surgery, Surgical Disruptive Technology Summit, March 5, 2018, Houston, TX
- lxxvi. "Implementation and Deimplementation of Interventions in Trauma and Critical Care" Austin Trauma & Critical Care Conference, May 31, 2018, Austin, TX
- lxxvii. "Improving the Quality of Trauma Quality Improvement" Austin Trauma & Critical Care Conference, May 31, 2018, Austin, TX
- lxxviii. "Developing a Career in Academic Surgery: It's a Wonderful Life" Department of Surgery Grand Rounds, Dell Medical School, December 13, 2018, Austin, TX

- lxxix. “Developing a Career in Academic Surgery: Things I Wish I Had Known When I Started My Academic Career” Department of Cardiothoracic & Vascular Surgery Grand Rounds, McGovern Medical School, January 4, 2019, Houston, TX
- lxxx. “How Can a Safety-Net Hospital Deliver High Quality Care?” Baylor College of Medicine Department of Surgery Grand Rounds, January 16, 2019, Houston, TX.
- lxxxi. “Women in Surgery Panel Discussion: Microaggressions in Surgery” Panelists: Kao, Brown, Raubaud, and Martinez and Moderators: Ledet and Loor. South Texas American College of Surgeons Annual Meeting, February 9, 2019, Austin, TX.
- lxxxii. “Center for Surgical Trials and Evidence-based Practice (C-STEP): Building a Clinical Research Program Step by Step” Department of Surgery Health Services Research Interest Group Meeting, Baylor College of Medicine, March 6, 2019, Houston, TX.
- lxxxiii. “VTE Prevention” Red Duke Trauma Institute Trauma Symposium, March 30, 2019, Houston, TX.
- lxxxiv. “Why Academic Surgery?” Department of Surgery Grand Rounds, McGovern Medical School at the University of Texas Health Science Center at Houston, August 1, 2019, Houston, TX.
- lxxxv. “Steroids in the ICU: Underused” Pro-Con Debate, Advances in Critical Care, Baylor College of Medicine, September 14, 2019, Houston, TX.
- lxxxvi. “Gallstone Pancreatitis: Admission versus Normal Cholecystectomy --Clinical Efficacy and Economic Evaluation (Gallstone PANC Trial).” 205<sup>th</sup> Semi-Annual Meeting, Texas Surgical Society, October 4, 2019, Galveston, TX.
- lxxxvii. “Learning Healthcare System: Where is the boundary between QI and IRB oversight?” Fellows’ Clinical Trials Design Course, MD Anderson Cancer Center, October 18, 2019, Houston, TX.
- lxxxviii. “Multidisciplinary approach in management of the polytrauma patient” Texas Medical Center (TMC) Maxillofacial Trauma Symposium, October 25, 2019, Houston, TX.
- lxxxix. “PIVOT: Navigating a Career in Academic Surgery” International Day of Women and Girls in Science Symposium sponsored by the McGovern Medical School Women Faculty Forum, February 11, 2020, Houston, TX
- xc. “Learning Healthcare System: QI vs IRB” Fellows’ Clinical Trials Design Course, MD Anderson Cancer Center, September 18, 2020, Houston, TX (virtual)

## 2. Videos

- i. **Kao LS**, Horvath KD, Wherry KL, Pellegrini CA, Sinanan MN: Laparoscopic-assisted percutaneous drainage of infected pancreatic fluid collections. Video was presented at the SAGES annual meeting. St. Louis, MO. April 2001.

## 3. Podcasts

- i. Livingston E, Regenbogen S, Cochran A, **Kao L**. Behind the Knife: Social Media and Surgery Today. August 2015.
- ii. **Kao L**. Behind the Knife: #183 Surgeon Writers: Dr. Lillian Kao on Schwartz’s Principles of Surgery and Advice for Authors/Reviewers

- iii. **Kao L** and Mueck K. Behind the Knife: Annals of Surgery Journal Club #13: Early Cholecystectomy for Gallstone Pancreatitis