



Daniel I. Sessler, M.D.

RESUME

EDUCATION

Undergraduate (Chemistry), University of California, Berkeley	1973-76
College of Physicians and Surgeons, Columbia University, New York City	1976-80
Pediatric and anesthesia residencies, UCLA	1980-85

CERTIFICATION

American Board of Pediatrics	1985
American Board of Anesthesiology	1987
Voluntary recertification	2009
Association of Clinical Research Professionals	2004

CURRENT POSITIONS

Vice-President for Clinical and OUTCOMES RESEARCH , UTHealth, Houston	2024-
Tenured Professor of Anesthesiology and Biostatistics, UTHealth, Houston	2024-
Senior International Fellow, Population Health Research Institute, McMaster University	2011-

FUNDED RESEARCH

Total extra-mural funding (75% peer-reviewed)	>\$100 million
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TEACHING

Invited lectures and visiting professorships	>500 institutions
Post-doctoral research scholars from 20 countries	>200 research fellows
Research fellows who subsequently chaired anesthesia departments	7 fellows
Graduate students and medical students (for at least a full year)	>65 students
Cleveland Clinic Medical School epidemiology & statistics course director ($\approx$ 90 class hours per year)	2007-11

PUBLICATIONS

Refereed full research papers and major reviews	>1,000
Papers accompanied by an editorial	>150
Journal covers (articles or editorials)	37
Peer-reviewed citations	>110,000 times
H Index	166
Book sections	1 book and >30 chapters
Editorials	>60

SELECTED HONORS

American Society of Clinical Investigation (ASCI)	1996
J. William Fulbright Scholar	1996-97
ÖGARI Anesthesia and Intensive Care Research Prize (\$3,000)	1996
Schülke Prize (\$9,000, shared with Andrea Kurz, M.D. and Rainer Lenhardt, M.D.)	1997
American Society of Anesthesiologists Excellence in Research Award (\$4,000)	2002
Alpha Omega Alpha Distinguished Faculty	2003
Eponymous lectures	26
Editorial boards (>950 individual reviews & 730 papers handled for Anesthesiology)	7
Board of directors: Foundation for Anesthesia Education & Research (FAER)	2014-22
Senior Editor for Trials, Journal of Clinical Anesthesia	2024-
Association of American Physicians	2026-



CURRICULUM VITAE

Daniel I. Sessler, M.D.

**Vice-President for Clinical and Outcomes Research
Senior member, Center for OUTCOMES RESEARCH
Tenured professor of Anesthesiology and Biostatistics
UTHealth, Houston**

**Senior International fellow
Population Health Research Institute
McMaster University**

**Emeritus Staff
Cleveland Clinic**

ADDRESS

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PERSONAL DATA

ORCID: 0000-0001-9932-3077
Wife: Ximena L. Valdes, M.D. (Pediatric cardiology, retired)

EDUCATION AND CERTIFICATION

Education:	Undergraduate, Department of Chemistry, University of California, Berkeley	1973-76
	M.D., College of Physicians and Surgeons, Columbia University, New York City	1976-80
	Internship and Residency (pediatrics), University of California, Los Angeles	1980-83
	Residency (anesthesia), University of California, Los Angeles	1983-85
Certification:	American Board of Pediatrics	1985
	American Board of Anesthesiology	1987
	Voluntary ABA recertification	2009
	Association of Clinical Research Professionals (CCTI)	2004
Licensure:	California G 45084	1981-03
	Kentucky 35905	2000-07
	Ohio 35-086982	2005-
	DEA BS4212003	1990-
Leadership Training:	AAMC Executive Development Seminar for Associate Deans and Department Chairs (5 days), Ft. Lauderdale, FL, October	2001
	Conflict Resolution Workshop (1 day), Faculty of Law and Medicine, University of Ottawa, Louisville, KY, April	2003
	Society of Academic Anesthesia Chairs (3 days), Boston, November	2004
	Behavioral Based Interviewing (half day). Center for Leadership and Learning, Cleveland, December	2005
	Strategic Planning (half day), Physician Leadership Academy Cleveland, June	2007
	OPSA Physician Leadership course (ten full days). Center for Leadership and Learning, Cleveland, February-March	2009
	Budgets, financial accounting, and patient experience with the revenue cycle (1.5 days), March	2009
	Leadership momentum (150 hours)	2020-21

Regulatory Training:	Clinical trial safety (2 days). Drug Information Agency, Washington, DC, February	2000
	Fostering integrity in clinical research at academic medical centers (2 days). FDA & AAMC, Arlington, VA, September	2002
	Medical device approval process (1 day), Barnett International, Louisville, KY, December	2002
	Annual institutional review board conference (2 days), Public responsibility in medicine and research (PRIM&R) Washington DC, December	2003
Honors and Awards:	Edward Frank Kraft Award	1974
	Phi Beta Kappa	1976
	Brown Fellowship in Tropical Medicine (3 months in Liberia)	1980
	Anesthesiology Educational Foundation Essay Award	1985
	MHAUS Certificate of Recognition	1993 & 2001
	American Society of Clinical Investigation	1996
	J. William Fulbright Scholar	1996-97
	ÖGARI Anesthesia Research Prize (\$3,000)	1996
	Schülke Prize (\$9,000, shared with A. Kurz and R. Lenhardt)	1997
	ANZCA Ellis Gillespie Foundation Visitor Award, Australia	2000
	Distinguished University Scholar, University of Louisville	2001
	Research!Louisville, First Place Faculty Award (\$500)	2001
	ASA Excellence in Research Award (\$4,000)	2002
	Alpha Omega Alpha Distinguished Faculty	2003
	Academy of Anesthesiology Mentors	2005
	Bernard Eliasberg Award	2011
	Perioperative Care Congress: Researcher of the Year	2019
	Association of American Physicians	2026
	Eponymous lectures	26

POSITIONS HELD

UTHealth, Houston:	Vice-President for Clinical and Outcomes Research	2024-
	Senior member, Center for OUTCOMES RESEARCH	2024-
	Tenured professor of Anesthesiology	2024-
	Professor of Biostatistics	2026-
Cleveland Clinic:	Vice-chair for Research, Department of Anesthesiology	2024
	Chair, Department of OUTCOMES RESEARCH	2005-23
	Professor of Anesthesiology, Lerner College of Medicine	2008-24
	Vice-chair for Research, Anesthesiology Institute	2008-18
	Michael J. Cudahy Endowed Chair for Clinical Engineering	2011-24
	Emeritus Staff	2024-
McMaster University:	Visiting Scientist, Department of Anesthesia	2010-11
	International Scientist, Population Health Research Institute	2011-21
	Senior International Fellow, Population Health Research Institute	2021-
University of Louisville:	Interim Chair, Department of Anesthesiology (11 months)	2004-05
	President, University Anesthesiology Associates, PSC	2004-05
	Associate Vice President for Health Affairs	2003-05
	Vice Dean for Research, School of Medicine	2003-05
	Senior Member Graduate Faculty	2003-05
	Lolita & Samuel Weakley Endowed Research Chair	2000-07
	Professor of Anesthesiology and Perioperative Medicine	2000-07
	Director, OUTCOMES RESEARCH Institute	2001-06
	Distinguished University Scholar	2001-05

	Professor of Pharmacology & Toxicology	2002-07
	Acting Chair, Department of Anesthesiology (6 months)	2001
	Assistant Vice President for Health Affairs	2000-03
	Associate Dean for Research, School of Medicine	2000-03
University of Vienna:	Professor, Department of Anesthesia	1996-99
	Professor and Vice-Chair, Boltzmann Institute	1997-04
UCSF:	Instructor, Department of Anesthesia	1985-87
	Assistant Professor, Department of Anesthesia	1987-91
	Associate Professor, Department of Anesthesia	1991-96
	Professor, Department of Anesthesia	1996-00

ELECTED PROFESSIONAL SOCIETIES

Regional:	Jefferson County Medical Society	2000-06
	California Society of Anesthesiologists	1986-00
	Kentucky Society of Anesthesiologists	2000-06
	Kentucky Medical Association	2001-06
	Ohio Society of Anesthesiologists	2005-24
	Academy of Medicine of Cleveland & Northern Ohio	2008-24
National:	American Academy of Pediatrics	1985-95
	American Society of Anesthesiologists	1986-
	Malignant Hyperthermia Association of the United States	1986-
	American Physiological Society	1988-99
	Association of University Anesthesiologists	1988-
	American Society of Clinical Investigation	1996-
	Association for Patient-Oriented Research	2000-05
	Drug Information Agency	2000-01
	Alpha Omega Alpha Medical Honor Society	2003-
	Academy of Pharmaceutical Physicians and Investigators	2005-
	American Heart Association	2019-
	Association of American Physicians	2026-
International:	International Anesthesia Research Society	1985-
	Wound Healing Society	1993-01
	European Society of Anaesthesiologists	2000-
	Fulbright Association	2003-
	Association of Clinical Research Professionals	2003-09
	Society for Ambulatory Anesthesia	2004-08
	Society for Clinical Trials	2004-10
	International Society on Oxygen Transport to Tissues	2006-07
	International Society for Anesthetic Pharmacology [lifetime member]	2007-
	Society for Perioperative Care and Research	2018-

UNIVERSITY AND PUBLIC SERVICE

Community Service:	American Society of Anesthesiologists	
	Committee on Clinical Neuroscience	1988-89
	<i>Ad hoc</i> Committee on Temperature Monitoring	1992
	Committee on Excellence in Research	2003-07
	Committee on Research	2009-20
	Physician Consortium for Performance Improvement	2006-10
	Sub-committee on Equipment, Monitoring, & Technology	2011-13
	Committee on Scientific and Educational Exhibits	2014-15
	Committee on Excellence in Research	2022-
	Foundation for Anesthesia Education and Research (FAER)	
	Board of Directors	2014-22
	Grant Management Committee	2015-18
	Nominating Committee	2018-20
	Helrich Committee, chair	2020
	Grants Management Committee	2020-
	Malignant Hyperthermia Association of the United States	
	Hotline consultant	1986-03
	Daniel Massik Award selection committee	2002-03
	Phi Beta Kappa Committee on Teaching Excellence	1988-90
	<i>Science by Mail</i> volunteer (National Science Foundation)	1994-95
	International Union of Physiological Societies	
	Thermal Physiology Commission	1999-02
	Comparative Physiology Commission, Thermal Section	2002-11
	PONV Consensus Conference	
	Palm Beach	2002
	Miami	2006
	Intel International Science and Engineering Fair, Louisville	2002
	Grand Awards judge	
	Rosenberg Endowed Lecture Selection Committee	2009-15
	Anesthesia Quality Institute Data Use Committee	2014-16
	ASRA Working Group on Analgesia and Cancer Recurrence	2016-19
	Pain Lab P01 External Advisory Board	2016-
	DeGroote Centre for Medicinal Cannabis Research	
	Scientific advisory board	2018-01
Data & Safety Monitoring:	[Excludes chairing several hundred Cleveland Clinic Executive Committees.]	
	Near-Infrared Spectroscopy for Intraoperative Restriction of Fluids Trial. Office of Naval Research	
	Chair , Data and Safety Monitoring Board	2008-12
	TRISAT vasopressin trial. Office of Naval Research	
	Chair , Data and Safety Monitoring Board	2007-09
	Protective ventilation during GA for abdominal surgery. HiLo Surg (PROVHILO). European Trials Network	
	Chair , Data and Safety Monitoring Board	2010-13
	AVERT trial, Department of Defense	
	Data and Safety Monitoring Board	2012-17
	Protective ventilation with higher versus lower PEEP during general anesthesia for surgery in Obese patients (PROBESE). European Trials Network	

	Chair , Data and Safety Monitoring Board	2014-19
	High-frequency nerve block for post-amputation pain: a pivotal trial	
	Chair , Data and Safety Monitoring Board	2015-19
	Protective ventilation with high versus low positive endexpiratory pressure during one lung anesthesia for thoracic surgery (PROTHOR).	
	European Trials Network	
	Chair , Data and Safety Monitoring Board	2016-
	Prospective, randomized, controlled, double-blind, multi-centre, multinational study on the safety and efficacy of a 6% Hydroxyethyl starch (HES) solution versus an electrolyte solution in patients undergoing elective abdominal surgery (PHOENICS)	
	Chair , Data and Safety Monitoring Board	2016-
	Phase 4 study of 6% Hydroxyethyl starch solution versus an electrolyte solution in trauma patients (TETHYS)	
	Chair , Data and Safety Monitoring Board	2016-
	Personalized small molecule therapy for severe asthma and cystic fibrosis. NHLBI Po1 HL128192	
	Chair , Data and Safety Monitoring Board	2017-21
	XePOHCAS trial of Xenon for brain protection	
	Chair , Data and Safety Monitoring Board	2018-21
	DESIGNATION trial of ventilation. European Trials Network	2019-
	Chair , Data and Safety Monitoring Board	
	PEEP, Recruitment, Incentive spirometry, Muscle relaxant optimization, preoperative Education, early Ambulation, Individualized, and Reinforced (PRIME-AIR) clinical trial. NHLBI	2019-21
	Data and Safety Monitoring Board	
	PROTECT 2, Wound Care Trial	2022-
	Data and Safety Monitoring Board	
	Post discharge after surgery Virtual Care with Remote Automated Monitoring technology-3 (PVC-RAM) Trial	2022-
	Chair , Data and Safety Monitoring Board	
	Anticoagulation for stroke prevention in patients with recent episodes of perioperative atrial fibrillation after noncardiac surgery: ASPIRE-AF	2022-
	Data and Safety Monitoring Board	
	Look before you leap: How transthoracic ECHOCardiography before fractured Neck Of Femur saves lives in frail older people – the Pragmatic ECHONOF III trial. ANZCA Trials Network	2023-
	Chair , Data and Safety Monitoring Board	
Meeting Organization:	Yearly OUTCOMES RESEARCH Consortium late-breaking major trials sessions in conjunction with the American Society of Anesthesiologists Annual Meeting.	2021-24
	Yearly OUTCOMES RESEARCH Consortium late-breaking major trials session in conjunction with the European Society of Anesthesiologist Annual Meeting.	2001-
	Anaesthesiologie & Intensivmedizin Congress, Vienna	
	Scientific Committee	1996
	Int. Symposium on the Pharmacology of Thermoregulation	
	Planning Committee (Memphis)	1996
	Executive Committee (Seville)	1999
	18th International Symposium on Computing in Anesthesia	
	Scientific Advisory Committee	1998

Clinical Research in Academic Medical Centers symposium, Louisville Co-director	2000
Clinical Research Skills Workshop, Louisville Director	2001
Grant Writer's Workshop, Research!Louisville Co-director	2003
Annual day-long OUTCOMES RESEARCH Consortium meeting Organizer	2004-
Perioperative Glucose Control, Cleveland Director	2006
Second International Meeting on the Physiology and Pharmacology of Thermoregulation, Phoenix Program Committee	2006
Division of Anesthesia, Resident Research Day, Cleveland Director	2007
Third International Meeting on the Physiology and Pharmacology of Thermoregulation, Matsue, Shimane, Japan Program Committee	2009
CANNeCTIN, Hamilton, Ontario Cutting-edge symposium on perioperative medicine	2010
Anesthesiology Journal Symposium, associated with the Japan Society of Anesthesiologists annual meeting, Fukuoka, Japan Co-organizer	2010
Anesthesiology Journal Symposium, associated with the American Society of Anesthesiologists annual meeting, San Diego Co-organizer	2010
Perioperative Care Congress: science, evidence and practice, Toronto Organizing Committee	2017-
Analgesic, Anesthetic, and Addiction Clinical Trial Translations, Innovations, Opportunities, and Networks (ACTION), Sedation Consortium on Endpoints and Procedures for Treatment, Education, and Research (SCEPTOR); Sedation 3, Washington DC Organizing Committee	2018
SCEPTER III, Steering Committee Design of Clinical Trials Evaluating Sedation in Critically 2019III Adults Undergoing Mechanical Ventilation	2019

Mentoring:

Mentored Research Training Grants		
Andrea Kurz, MD		1999-01
Ricardo Riveros-Perez, MD		2011-12
Leif Saager, MD		2014-16
Sergio Bustamante, MD		2013-15
Helen Lee, MD		2015-17
Paul Potnuru, MD		2025-27
Medical Student Anesthesia Research Training		
Pamela Barnes	University of Louisville	2005
Pavan Bhatraju	University of Louisville	2006
Stephanie Weiss	Cleveland Clinic Lerner College	2007
Samuel Chen	Case University	2008
Thomas Qualtier	University of Cincinnati	2008
Leonard Buller	Cleveland Clinic Lerner College	2009
Angela Lin	Case University	2010

Mitesh Thakkar	Northeastern Ohio	2010
Michael Schnetz	Case University	2011
Jason Hsieh	Cleveland Clinic Lerner College	2012
Brittany Shrefler	Cleveland Clinic Lerner College	2013
Ting Zheng	Case Western Reserve	2014
Bright Kim	Wayne State	2015
Alicia Barclay	University of Cincinnati	2016
Chelsea Angel	Case University	2017
Zachary Dreyer	William Beaumont	2018
Cory Hughes	University of Kentucky	2019
Lucille Hu	Case University	2021
Melanie Fernandez	Northeastern Ohio	2022
Holly Johnson	Wright State	2023
Sguvabgu Mohta	Case Western	2024

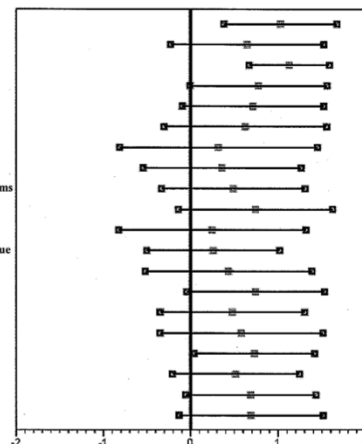
UTHealth:	CTOPS Committee	2024-
	CRISP Committee	2025-
	Department of Anesthesia, Promotion and Tenure Committee	2025-
	UTHealth Houston Artificial Intelligence Task Force	
	Research subcommittee	2025-
	Clinical Research Advisory Committee (Anesthesia)	2025-
	Anesthesia Grand Rounds Committee	2025-
	Thesis Committees	
	Shuyu Lu, Ph.D. School of Biomedical Informatics	2025-27

Cleveland Clinic:	Anesthesia Institute Visiting Professor Committee	2006-16
	Perioperative Medicine Summit Judge	2006
	Balkin Heart Brain Institute Research Council	2006-07
	Tarazi Award Selection Committee	2007
	Research Day, Abstract Judge	2005-11
	Lerner College of Medicine Research Education Committee	2007-12
	Lerner College Statistics Faculty Search Committee	2008
	Anesthesia Institute Education Committee	2008-11
	Research Compliance Committee	2011-24

Clinical Research
Block Course
Director.
Epidemiology;
Journal Club;
Statistics (≈ 90 class
hours per year).
2007-11.

USMLE Z scores
on X axis.
*Biostatistics and
Epidemiology was
one of only two
subjects in which
Lerner College
students
significantly
exceeded the mean.*

Behavioral Sciences
Biochemistry
Biostatistics & Epidemiology
Cardiovascular System
Gastrointestinal System
General Principles of Health & Disease
Genetics
Gross Anatomy & Embryology
Hematopoietic & Lymphoreticular Systems
Histology & Cell Biology
Microbiology & Immunology
Musculoskeletal, Skin & Connective Tissue
Nervous System/Special Senses
Nutrition
Pathology
Pharmacology
Physiology
Renal/Urinary System
Reproductive & Endocrine Systems
Respiratory System



	Lerner College of Medicine Thesis Committees	
	Seetharam Chadalavada	2007-08
	Beverly Jong	2007-08
	Stephanie Weiss	2009-11
	Viktoria Koskenoha (chair)	2010-11
	Alexandra Chludzinski	2010-11
	Janet Adegboye	2019-20
	Metty Markwei	2020-21
	Lisa Kojima	2021-22
	Emily Abramczyk	2022-23
	Michael Ryan	2022-23
	William Patterson (chair)	2023-24
	Talis Relationship Committee	2013-15
Louisville Med Center:	Joint Research Planning Committee	2000
	Research!Louisville faculty research judge	2000-04
	Collaborative Research Group	2002-04
University of Louisville:	Chair, GCRC Advisory Committee	2002-04
	School of Medicine Search Committees	
	Associate Dean for Faculty Affairs	2001-02
	Assistant Dean for Faculty Affairs	2003
	Associate Dean for Research	2003
	Veteran's Administration Academic Partnership Council	2002-04
	Council of Research Deans	2002-05
	Distinguished Awards Committee	2003-04
	Human Subjects Task Force	2003-05
	Clinical Trials Management Improvement Group	2003
	Program Advisory Council (medical student education)	2003
	Executive Oversight Committee for Research Integrity	2004-05
Population Health Research:	Annual Lectureship Selection Committee	2011-
	Masters thesis committee (Retse Rodseth)	2013
	Masters thesis committee (Sabu Thomas)	2015
Web design:	www.ClevelandClinic.org/DOR (Dept of Outcomes Research)	2005-24
	www.or.org (OUTCOMES RESEARCH Consortium)	1995-
	www.or.org/anesth (UofL Department of Anesthesiology)	2001-05
	www.or.org/hscro (Health Sciences Center Research Office)	2004-05
U of L Hospital	Medical Executive Committee	2004-05
U of L Anesthesia:	Information Technology Committee	2000-04
	Education Control Group	2000-04
	Course director, medical student research	2003-05
	Chair, Tsueda Lectureship Committee	2004
Univ. of Calif, SF:	Committee on Human Research	1995-96
	<i>Ad hoc</i> Promotion Committees	1995 & 98
	Chair, <i>ad hoc</i> Promotion Committee	1999

UCSF Anesthesia:	Research Committee	1987-00
	Resident Selection Committee	1987-88
	Editorial Committee	1988-92
	Merits and Promotions Review Committee	1989 & 1998
Board of Directors:	Medeqco, Louisville, Kentucky	2002-04
	Anesthesia Quality Institute (AQI)	2011-16
	Foundation for Anesthesia Education and Research (FAER)	2014-22
Advisory Boards:	Malignant Hyperthermia Association of the United States	1992-
	ThermaMed GmbH, Loehne, Germany	1998-01
	Radiant Medical, Inc., Redwood City, California	1998-07
	Journal of Anesthesia, Tokyo, Japan	2001-
	Neurologic Outcomes Center, Case University, Cleveland, Ohio	2010-11
	3M, Infection Prevention	2012-19
	Canadian Cardiovascular Society, Perioperative Guidelines	2013-16
Advocacy Groups:	*National Geographic Society	1978-
	*Malignant Hyperthermia Association of the United States	1990-
	Planned Parenthood	1991-
	*Federation of American Scientists	1996-
	*UCSF School of Medicine Faculty-Alumni Association	1997-
	*Nature Conservancy	1998-
	Physicians for Social Responsibility	2000-10
	*National Organisation for Women	2002-
	*American Civil Liberties Union	2003-
	Anesthesia Patient Safety Foundation	2008-
	League of Conservation Voters	2011-
	The Charter Hill Society (University of California at Berkeley)	2011-
	*University of California at Berkeley Alumni Association	2009-
	American Association for the Advancement of Science	2016-
	Sierra Club	2016-
	Southern Poverty Law Center	2020-
	NAACP	2020-
	Policing Equity	2021-
	Human Rights Center, University of California, Berkeley	2019-
	[*Indicates life membership]	
Editorial Boards:	<i>American Journal of Anesthesiology</i>	1999-02
	<i>Journal of Cardiothoracic & Vascular Anesthesia</i>	2000-06
	<i>University of Louisville Medicine</i>	2004-05
	<i>BMC Anesthesiology</i>	2006-16
	<i>BMC Anesthesiology</i> , Associate Editor	2008-16
	<i>The Open Clinical Trials Journal</i> , Associate Editor	2008-14
	<i>Perioperative Medicine</i>	2011-18
	<i>Anesthesiology</i> , Associate Editor	2011, 2021-
	<i>Anesthesiology</i> , Handling Editor	2012-20
	<i>Journal of Clinical Anesthesia</i> , Senior Editor for Trials	2023-

Ad Hoc Journal Reviews: More than 900 individual reviews + 730 handled for *Anesthesiology* >1,630

<i>New England Journal of Medicine</i>	<i>Lancet</i>
<i>Journal of the American Medical Society</i>	<i>Circulation</i>
<i>Anesthesiology</i>	<i>Nature Communications</i>
<i>Journal of Applied Physiology</i>	<i>Journal of Pediatrics</i>
<i>British Medical Journal</i>	<i>Pain</i>
<i>Canadian Journal of Anaesthesia</i>	<i>Journal of Clinical Monitoring</i>
<i>Intensive Care Medicine</i>	<i>Gerontology</i>
<i>Can J Physiology & Pharmacology</i>	<i>Drug Investigation</i>
<i>Critical Care Medicine</i>	<i>J Cardiothorac Vasc Anesth</i>
<i>American Journal of Anesthesiology</i>	<i>Journal of Clinical Anesthesia</i>
<i>Intensive Care Medicine</i>	<i>The Medical Letter</i>
<i>Acta Anaesthesiologica Scand</i>	<i>BMC Anesthesiology</i>
<i>Southern Medical Journal</i>	<i>American Journal of Surgery</i>
<i>Metabolism</i>	<i>Achieves of Medical Research</i>
<i>Pharmaceutical Biochemistry</i>	<i>Phlügeners Achieve</i>
<i>Journal of Thermal Biology</i>	<i>BioMed Central</i>
<i>Kuwait J of Science & Engineering</i>	<i>Mayo Clinic Proceedings</i>
<i>Biological Research for Nursing</i>	<i>Reg Anesth Pain Med</i>
<i>Exercise Physiology & Sports Science</i>	<i>Journal of Medical Genetics</i>
<i>Cytokine</i>	<i>American J of Infection Control</i>
<i>Scand J infect Dis</i>	<i>The Open Clinical Trials Journal</i>
<i>Annals of Surgery</i>	<i>MIT Press</i>
<i>Cochrane Collaboration</i>	<i>European Journal of Pain</i>
<i>Drugs</i>	<i>Anesth Res Pract</i>
<i>PLOS-1</i>	<i>Perioperative Medicine</i>
<i>J Am Coll Cardiol</i>	<i>Infect Dis in OB-GYN</i>
<i>Biomed Central International</i>	<i>Lancet Oncology</i>
<i>Heart</i>	<i>J Ortho Trauma</i>
<i>J Am College of Cardiology</i>	<i>BMJ Open</i>
<i>Nature Reviews Clinical Oncology</i>	<i>EClinicalMedicine</i>
<i>Scientific Reports</i>	<i>Lancet Resp Med</i>
<i>Am Heart J</i>	<i>IEEE Transactions</i>
<i>J Am Coll Card</i>	<i>Med Principles Practice</i>
<i>JZUS-B (Biomedicine & technology)</i>	<i>Pediatrics</i>
<i>J Clin Epidemiol</i>	<i>The Breast</i>
<i>Lancet Regional Health – West Pacific</i>	<i>JACC, CardioOncology</i>
<i>JAMA Cardiology</i>	<i>Lancet Regional Health</i>
<i>Anesthesia and Analgesia</i>	

Extramural Grant Reviews (excludes FAER, ASA Committee on Research, and internal competitions)

Agency	Topic	Date
Naval Medical Research and Development Command	Cold Pathophysiology Research Review Panel	1993
NIH GMS	Special Emphasis Panel for Wound Healing	2006
NIH NIAMS	<i>Ad hoc</i> panel to review clinical trial proposals	2006
NIH NIDCR	Panel to review clinical trial proposals	2008
Sheffield Hospitals Charitable Trust	Grant review	2008
National Institute for Academic Anesthesia	Grant reviews	2008
NIH NIDCR	Panel to review clinical trial proposals	2009
ASA Research Committee	FAER grant applications	2009-22
Manitoba Health Research Council	“A & T Vision” application	2009
Health Sciences Centre Foundation	Grant review	2009
Manitoba Medical Service Foundation	Grant review	2009
National Institute for Academic Anesthesia	Grant review	2009
Health Sciences Centre Foundation, Canada	Grant review	2010

Natural Sciences & Engineering Research Council, Canada	Discovery Grant review	2011
Winnipeg Health Sciences Center Foundation	Grant review	2011
CANNeCTIN	Grant review	2011
German-Israeli Foundation for Scientific Research	Grant review	2013
Australian and New Zealand College of Anaesthetists	Grant review	2015
Department of Defense CDMRP PRMRP	Grant review	2018
Sidra Medicine	Grant review	2018
Dutch National Medical Board	Grant review	2018
National Institute for Academic Anaesthesia (UK)	Grant review	2019
IARS & ASA	Grant review	2020
PSI Resident research grant (Ontario Province)	Grant review	2023
Programme hospitalier de recherche clinique 2023	Grant review	2024
Australian and New Zealand College of Anaesthetists	Grant review	2025

FUNDED RESEARCH

Peer-Reviewed Sources	Agency (federal funding in bold font)	Principal Investigator	Direct cost (\$)	Dates
A seamless phase 2b/3 trial of vadadustat for non-intubated ARDS due to pathogen-associate lung injury	Department of Defense	Eltzschig	8,200,000	2026-30
The Million Anesthesia Cases Study (MACS) – a multicenter registry-based study assessing the incidence, severity, and clinical effects of prolonged preoperative fasting	Anesthesia Patient Safety Foundation	Nagrebetsky	200,000	2025-27
Post-Operative Biomarker-Guided Precision Medicine for Cardiovascular Risk Reduction	National Institutes of Health (R34HL173301)	Smilowitz	778,000	2025-27
Point-of-care ultrasound (POCUS): reducing hospitalization in patients with dyspnoea	Australian Medical Research Future Fund	Cid-Serra / Royse	1,260,000	2025-28
Predictors and impact of postoperative pain after same-day surgery - a prospective cohort study	Canadian Institutes of Health Research	Duceppe	342,000	2024-27
Mechanisms in Brain Aging and Dementia	Canadian Institutes of Health Research	Marcucci	547,000	2023-7
Eliminating Post-Mastectomy Pain and Opioids with Percutaneous Cryoneurolysis: A Single-Administration, Non-Opioid, Non-Addictive, Multiple-month Analgesic	Department of Defense	Ilfeld	397,930	2004-28
A Single-administration, Non-opioid, Non-addictive, Multiplemoonth Analgesic for Thoracic Trauma Free of Systemic Side Effects (TRAUMA)	Department of Defense	Ilfeld	423,000	2023-27
Summer Student Stipend	FAER	Johnson	4,200	2023
Efficacy and quality in pain therapy after discharge, EQUIPPED	National Institutes of Health (R01HS027795)	Bartels	38,000	2023-24

Abuse-deterrence and prevention of respiratory depression by an oral opioid analgesic and doxapram combination	National Institutes of Health (1R44DA055336)	Rix & Sessler	1,400,000	2022-6
NeuroVISION 2	Canadian Institutes of Health Research	Marcucci	1,998,600	2023-7
A first-in-class, mechanism-guided, cell-based therapy for complex regional pain syndrome	National Institutes of Health (UG3NS126258)	Cheng	1,576,000	2022-24
Summer Student Stipend	FAER	Fernandez	4,200	2022
Predictors and impact of postoperative pain after same-day surgery - a prospective cohort study	Canadian Institutes of Health Research	Duceppe	61,000	2022-23
Look before you leap: Goal-directed Ultrasound Informed Decision-making in Elderly patients in emergency surgery – the ECHOGUIDE III trial	Australian Medical Research Council	Canty	2,650,000	2022-26
Cardiovascular Outcomes Research in Perioperative Medicine - COR-PM	National Institutes of Health (1R13HL162411)	Bartels & Sessler	10,000	2021
(VALIANCE)Vascular events in patients undergoing same-day noncardiac surgery-a prospective cohort and nested biobank study	Canadian Institutes of Health Research	Duceppe	226,440	2021-22
Summer Student Stipend	FAER	Hu	4,200	2021
Vascular events In noncardiac Surgery patients cOhort evaluationN study-2 (VISION-2)	Canadian Institutes of Health Research	McGillion	673,000	2020-23
Prevention of persistent pain with LidocAine iNfusions in breast cancer surgery (PLAN): a multicentre randomized controlled trial	Canadian Institutes of Health Research	Khan	964,000	2020-23
SMILE: Optimising Smarter Inclusive Living Environment for ageing people within their circles of care.	Canadian Institutes of Health Research	Devereaux	300,000	2020-22
Prevention of persistent pain with LidocAine iNfusions in breast cancer surgery (PLAN): a multicentre randomized controlled trial	Canadian Institutes of Health Research	Gilron	535,500	2020-22
Vascular events In noncardiac Surgery patients cOhort evaluation study-2 (VISION-2)	Canadian Institutes of Health Research	Doyle	532,950	2020-22
Wearable Device for Prevention of Opioid-Induced Respiratory Depression, Hypoxemia and Death	National Institutes of Health (1R43DA050336)	Olson	183,774	2020-21
Minimizing perioperative bleeding and hypotension to reduce postoperative delirium and cognitive decline after noncardiac surgery: the cogPOISE-3 randomized controlled trial	Canadian Institutes of Health Research	Marcucci	341,000	2019-22
Colchicine for the prevention of perioperative atrial fibrillation COP-AF	Canadian Institutes of Health Research	Conen	1,747,528	2019-22
COP-AF	Canadian Institutes of Health Research	Conen	1,500,000	2019-22

Minimizing perioperative bleeding and hypotension to reduce postoperative delirium and cognitive decline after noncardiac surgery: the cogPOISE-3 randomized controlled trial.	Canadian Institutes of Health Research	Marcucci	394,713	2019-22
The Effect of Virtual Reality Distraction Technique for Acute Postoperative Pain Reduction	NIH/Applied VR	Ayad	\$241,260	2019-22
VAPOR-C	Medical Research Council (Australia)	Riedel	4,300,000	2019-23
Colchicine for the prevention of perioperative atrial fibrillation (COP-AF)	Canadian Institutes of Health Research	Conen	100,000	2019-20
Testing and Commercialization of a Superior Device to Maintain Perioperative Normothermia In Anesthetized Patients	National Institutes of Health (R42GM119871)	Sessler & Pulver	1,150,000	2018-20
Improving Postamputation Functioning by Decreasing Phantom Limb Pain and Opioid Use with Perioperative Continuous Peripheral Nerve Blocks: A Multicenter RCT	Department of Defense Congressionally Directed Medical Research Programs	Ilfeld	2,847,000	2017-21
Cryoanalgesia to Treat Postamputation Phantom Limb Pain: A Definitive Clinical Trial	Department of Defense	Ilfeld	3,950,000	2017-21
Ultrasound-guided Percutaneous Peripheral Nerve Stimulation: A Non-Pharmacologic Alternative for the Treatment of Postoperative Pain	Department of Defense	Ilfeld	1,532,774	2018-24
Summer Student Stipend	FAER	Dreyer	4,200	2018
Summer Student Stipend	FAER	Angel	4,200	2017
Recovery from Pain and Disability after Surgery	National Institutes of Health (P01GM113852)	Eisenach (Sessler Lead Investigator for Project 3)	4,147,000	2016-21
PeriOperative ISchemic Evaluation-3 (POISE-3)	Canadian Institutes of Health Research	Devereaux	3,685,000	2018-22

SMArT VIEW: CoVeRed: TecHnology Enabled remote monitoring and Self-MANagementT - Vision for patient EmpoWerment following Cardiac and VasculaR surgery.	Canadian Institutes of Health Research	McGillion	800,000	2015-19
THE SMArT VIEW: CoVeRed: TecHnology Enabled remote monitoring and Self-MANagementT - Vision for patient EmpoWerment following Cardiac and VasculaR surgery	Canadian Institutes of Health Research	McGillion	749,876	2015-20
Summer student stipend	FAER	Barclay	4,200	2016
Improving Access to Care For the Pediatric Dental General Anesthesia Population	FAER	Lee	175,000	2015-17
A randomized trial of ketamine for Rett Syndrome	Rett Syndrome Research Trust	Sessler/Katz	120,000	2015-17
A Randomized Controlled Trial of Regional Versus General Anesthesia For Promoting Independence After Hip Fracture (REGAIN Trial)	Patient Centered Outcomes Research Institute	Neumann	220,777	2015-2022
A randomized trial of clinician alerts for Triple Low conditions	Drown Foundation	Sessler	75,000	2015-16
RELIEF	Alfred Health	Kurz	263,958	2014-17
Tissue oxygen and surgical wound infection	Drown Foundation	Sessler	50,000	2014-15
Development and validation of a Computer Algorithm to Detect Artifact in Electronic Databases	FAER	Saager	175,000	2014-16
NeuroVISION	Canadian Institutes of Health Research	Devereaux	217,695	2014-16
Management of Chronic Neuropathic Pain Syndromes: A Network Meta-Analysis	Canadian Institutes of Health Research	Busse & Guyatt	100,000	2014-15
Summer student stipend	FAER	Zheng	4,200	2014
BALANCED Trial	National Health & Medicine Research-Australia	Short	272,231	2013-17
Management of chronic neuropathic pain syndromes: A network meta-analysis	Canadian Institutes of Health Research	Busse	100,000	2013-14
HIP fracture Accelerated surgical TreaTment And Care track (HIP ATTACK) Trial	Physicians' Services Incorporated (PSI) Foundation	Bandari	168,500	2013-14
Non-invasive thermometry in non-cardiac surgical patients	Drown Foundation	Sessler	20,000	2013
Neuropathic pain meta-analysis	Canadian Anesthesia Research Foundation	Mulla	30,000	2013-14
Postoperative NT-Pro-BNP	Canadian Institutes of Health Research	Devereaux	42,000	2013-14

Anesthesia summer research fellowship	FAER	Shrefler	4,200	2013
Left atrial appendage occlusion study III	Canadian Institutes of Health Research	Whitlock	365,500	2013-14
VISION for the cancer population	The Juravinski Hospital and Cancer Centre Foundation	Kavsak	50,000	2013-14
Treating intractable post-amputation phantom limb pain with ambulatory peripheral nerve blocks	Department of Defense	Ilfeld	1,835,646	2013-16
Left Atrial Appendage Occlusion Study III (LAAOS III)	Canadian Institutes of Health Research	Whitlock	365,513	2012-16
Lung cancer biomarker evaluation	Joseph Drown Foundation	Sessler	10,000	2012-13
VISION cohort study	McMaster University	Kurz	225,346	2011-14
Evaluation of A Novel Portable Simulator	FAER	Bustamante	99,586	2013-14
Anesthesia summer research fellowship	FAER	Hsieh	4,200	2012
Expanding the emerging collaboration perioperative medicine	Hamilton Health Sciences Research Strategic Initiative	Devereaux	300,000	2012-14
The Effect of Opioids on Chronic non-Cancer Pain: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Canadian Institutes of Health Research	Busse	100,000	2012-13
Informing Fresh versus Old Red cell Management (INFORM)	Canadian Institutes of Health Research	Eikelboom	1,600,000	2012-16
Preventing Peri-operative Acute Kidney Injury: SIRS & POISE-2 Sub-studies	Canadian Institutes of Health Research	Garg	427,125	2011-17
Informing Fresh versus Old Red cell Management (INFORM)	Canadian Institutes of Health Research	Eikelboom	1,606,294	2011-16
PeriOperative ISchemic Evaluation-2 (POISE-2)	Canadian Institutes of Health Research	Devereaux	3,685,000	2012-16
PeriOperative ISchemic Evaluation-2 (POISE-2)	Operating Grant	Devereaux	3,584,223	2011-16
Remote IMPACT	Canadian Institutes of Health Research	Duncan	33,700	2011-16
Evaluation of Multisource feedback in professionalism for anesthesia residents	FAER	Riveros-Perez	100,000	2011-12
Informing Fresh versus Old Red cell Management (INFORM) A large simple phase III reandomized controlled trial	Canadian Institutes of Health Research	Eikelboom	100,000	2011-12
Anesthesia summer research fellowship	FAER medical student fellowship	Schnetz	4,200	2011

HIP ATTACK: Hip fracture accelerated surgical treatment and care track	Hamilton Academic Health Sciences	Bhandari	130,000	2011-12
PeriOperative ISchemic Evaluation-2 (POISE-2)	Canadian Institutes of Health Research	Devereaux	100,000	2011-12
The Effect of Opioids on Chronic non-Cancer Pain:A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Canadian Institutes of Health Research	Busse	99,253	2011-12
NeuroVISION Pilot: Neurological impact of vascular events in noncardiac surgery patients cohort evaluation	Canadian Institutes of Health Research	Mrkobrada	85,000	2011-12
Danyal Shaikh- NIHLB	National Institutes of Health (R25HL103152)	Shaikh	1,000	2011-12
Steroids in Cardiac Surgery	Population Health Research Institute	Yared	78,200	2010-15
PeriOperative ISchemic Evaluation-2	Population Health Research Institute	Kurz	512,000	2010-14
A Comparison of Epidural Analgesia and Traditional pain management	Case Western Reserve University	Cummings	4,300	2010-12
Non-Contact ECG Monitoring ad Diagnosis	Cleveland State University	Ovreiu	17,300	2010-12
Classification of atrial fibrillation prone patients using neuro-fuzzy modeling	American Heart Association	Ovreiu	100,000	2010-11
Anesthesia Summer Research Fellowship	FAER medical student fellowship	Lin	3,200	2010
Anesthesia Summer Research Fellowship	FAER medical student fellowship	Thakkar	1,000	2010
Anesthesia Summer Research Fellowship	FAER medical student fellowship	Buller	6,000	2009
Effect of intrathecal ketorolac on mechanical hypersensitivity following surgery	National Institutes of Health (GM 048085)	Eisenach	187,000	2009-11
Regional analgesia and cancer recurrence	FAER medical student fellowship	Qualtier	5,000	2008
Regional analgesia and breast cancer recurrence	Austrian National Bank Fund	Fleischmann	90,000	2008-09
The effect of glucose control, steroid administration, and light anesthesia on serious complications after major surgery	CCF Research Programs Committee	Abdelmalek	12,500	2008
The effect of crystalloid versus colloid on intraocular pressure during prolonged prone spine surgery	CCF Research Programs Committee	Farag	12,500	2008
Glucose control during cardiac surgery	FAER medical student fellowship	Chen	6,000	2008

Perioperative cognitive protection — dexmedetomidine and cognitive reserve	National Institutes of Health (AG 029656)	Silverstein	2,090,000	2007-14
Regional anesthesia and breast cancer recurrence	Drown Foundation	Sessler	75,000	2007
A prospective, randomized trial of the effect of regional anesthesia/analgesia for mastectomy on cancer recurrence	Mater Misericordiae Hospital	Buggy	50,000	2007-08
Glucose control during cardiac surgery	FAER medical student fellowship	Weiss	5,000	2007
Perineural anesthetic infusion after joint replacement	National Institutes of Health (GM 077026)	Ilfeld	571,200	2005-10
The effects of mean-skin temperature and local skin temperature on pain perception	FAER medical student fellowship	Barnes	4,200	2005
Chlorhexidine and pneumonia in nursing home residents	National Institutes of Health (DE 015760)	Binkley	355,000	2005-09
Dental anxiety, pain & melanocortin-1 receptor mutations	National Institutes of Health (DE 16064)	Liem	275,000	2004-06
The role of dexamethasone and anesthesia depth in the incidence of postoperative cognitive dysfunction: A factorial randomized controlled trial	Society for Ambulatory Anesthesia	Nielsen	150,000	2004-06
Multicenter trial of hypercapnia and surgical wound infection	Gheens Foundation	Sessler	1,000,000	2004-06
The role of dexamethasone and anesthesia depth in the incidence of postoperative cognitive dysfunction: A factorial randomized controlled trial	National Institutes of Health DE 0145543)	Gettleman	2,902,500	2004-08
Genetic and environmental factors for progressive supranuclear palsy	National Institutes of Health (AG 024040)	Litvan	530,000	2003-05
Oral care and respiratory pathogen colonization	National Institutes of Health (DEO 14543)	Akça	100,000	2003-05
Hypercapnia and surgical wound infection	Drown Foundation	Sessler	200,000	2003-06
Nitrous oxide and wound infections	National Institutes of Health (GM 061655)	Sessler	300,000	2003-08
Evaluation of a non-invasive core-temperature monitor	Canadian National Defense Ministry	Sessler	37,200	2000-01
Acupuncture analgesia	Jewish Hospital Foundation	Akça	50,000	2000-02
Very mild hypothermia and blood loss	Austrian National Bank Foundation	Kurz	30,000	1999-00
Effects of epidural and general anesthesia on subcutaneous tissue oxygen tension	Austrian National Bank Foundation	Kabon	36,000	1999-02

The effects of supplemental oxygen and ondansetron on postoperative nausea and vomiting	Austrian National Bank Foundation	Goll	23,000	1999-00
Factors influencing patients willingness to participate in clinical research	Austrian National Bank Foundation	Marker	5,000	1999-00
Vascular volume and wound infection	Drown Foundation	Sessler	150,000	1999-02
Oxygen and surgical wound infections	National Institutes of Health (GM 58273)	Sessler	422,000	1998-03
Forearm heat distribution and counter-current heat exchange	Canadian National Defense Ministry	Sessler	15,000	1998-99
The effect of nitroprusside on body heat distribution and afterdrop following cardiopulmonary bypass	Austrian National Bank Foundation	Rajek	15,000	1998-99
Immunological consequences of moderate hypothermia	Austrian National Bank Foundation	Illievich	20,000	1998-01
Nitrous oxide and surgical wound infections	Austrian National Bank Foundation	Lenhardt	35,000	1998-01
The effects of cutaneous heating on wound tissue oxygen	Austrian National Bank Foundation	Plattner	30,000	1998-99
Evaluation of a novel supraglottic airway	Burgermeister Fund der Stadt Wien	Krafft	10,000	1998
Fellowship	Erwin-Schrödinger Foundation	Lenhardt	15,000	1998
Very mild hypothermia, blood loss, and transfusion requirement	Burgermeister Fund der Stadt Wien	Kurz	25,000	1997-98
Supplemental oxygen and wound infection	Fonds zur Förderung der wissenschaftlichen Forschung	Kurz	130,000	1997-00
Fellowship	Fulbright Foundation	Sessler	10,000	1996-97
Oxygen and surgical wound infections	Austrian National Bank Foundation	Kurz	30,000	1996-98
Fellowship	Erwin-Schrödinger Foundation	Kurz	29,000	1996
Supplemental oxygen and wound infection	Drown Foundation	Sessler	150,000	1996-98
Fellowship	Max Kade Foundation	Lenhardt	54,000	1996-97
Very mild hypothermia and wound infection	Anesthesia Patient Safety Foundation	Sessler	25,000	1996-98
Fellowship	Max Kade Foundation	Plattner	43,000	1995-96
Core temperature and wound infections	Drown Foundation	Sessler	100,000	1994-95
Fellowship	Max Kade Foundation	Kurz	44,000	1993-95

Perianesthetic thermoregulation and heat balance	National Institutes of Health (GM 49670)	Sessler	252,000	1993-98
Wound healing and infection.	National Institutes of Health (GM 27345)	Hunt	30,000	1990-95
Perianesthetic Thermoregulation and Tremor	National Institutes of Health (GM 39723)	Sessler	331,000	1989-94
Magnetic resonance studies of volatile anesthetic kinetics in the brain	UCSF REAC Committee	Sessler	5,000	1986-87
The effects of bicarbonate on brain intracellular pH	Pharmaceutical Manufacturers Foundation	Sessler	20,000	1985-87
Thermoregulation and shivering after general anesthesia	UCSF Academic Senate	Sessler	11,000	1985
Spinal thermal receptors in humans	UCSF Academic Senate	Sessler	9,000	1988
Total Peer-Reviewed Funding			\$72,812,792.00	

NIH K-Award mentoring

Continuous postoperative ward monitoring	National Institutes of Health (KL2 TR001421)	Khanna	250,000	2020-2023
Coronary and skeletal muscle vascular control during exercise in patients with peripheral arterial disease	National Institutes of Health (KL2 TR000126)	Muller	221,500	2015-17
Variability in revascularization treatments among hospitals	National Institutes of Health (KL2R024990)	Dalton	280,000	2012-15
Hyperinsulinemic glucose control and myocardial function during cardiac surgery	National Institutes of Health (K23HL093056)	Duncan	722,500	2010-15
Oral chlorhexidine effect on ICU mortality and ventilator-associated pneumonia	National Institutes of Health (DE 17706)	Binkley	275,000	2007-09
Oral and respiratory status of retarded/disabled persons.	National Institutes of Health (DE 016477)	Binkley	275,000	2004-06
K award total funding			\$2,024,000	

Corporate funding	Source	Principal Investigator	Direct cost (\$)	Dates
For collaborative projects, only funds controlled by OUTCOMES RESEARCH are included				
CONSTANT	Masimo	Sessler	\$1,170,000	2024-27
Desflurane versus isoflurane for speeding postanesthetic recovery and duration of hospitalization: a cluster randomized crossover trial	Baxter	Sessler	\$146,283	2024-27
BTG Prot Dev & Retrospective	BTG	Sessler	\$50,000	2023-24
Continuous Ward Monitoring with the GE Portrait Mobile Monitoring Solution: the COSMOS trial (COSMOS II)	GE Healthcare	Sessler	\$1,307,692	2023-25
Alert frequency, nurse, and patient satisfaction with a continuous wireless vital sign monitoring software across health care systems and cultures (Ward 24/7)	Ward	Sessler	\$186,154	2023-24
A Real-World Evidence Trial Examining the use of OLINVYK™ (Oliceridine), a Biased Agonist at the μ (Mu) Receptor, in Patients Requiring Post-Surgical Pain Control (ARTEMIS)	Trevena, Inc.	Sessler	\$33,952	2023
Use of Sugammadex versus Neostigmine for Reversing Neuromuscular Blockade in Bronchoscopy Suite	Merck & Co, Inc.	Farag	\$76,750	2023-28
Masimo Protocol 2023	Masimo	Sessler	\$25,000	2023
ActivePure - Fee For Service	ActivePure	Sessler	\$25,000	2023
Masimo	Masimo	Sessler	\$19,231	2021
Does continuous monitoring of covid-19 patients in hospital wards speed detection of deterioration: A Single-center prospective cohort study	Circadia Technologies	Sessler	\$254,000	2021-26
TREVENA -SERVICE AGREEMENT	Trevena	Sessler	\$25,631	2021
Intraoperative Hypertension Risk-Adjustment Model	Mathematica	Maheshwari	\$30,000	2021-22
Intravenous Oleceridine and Opioid Related Complications: VOLITION: A Multi-Center Pilot Cohort Study	Trevena	Sessler	\$515,860	2021-24
Continuous Ward Monitoring with the GE Portrait Mobile Monitoring Solution: the COSMOS trial	GE Healthcare	Sessler	\$649,250	2021-26
Hypotension Prediction Index Software Guided Hemodynamic Management for Noncardiac Surgery Patients - Smart BP	Edwards Lifesciences	Maheshwari	\$1,051,154	2021-23
Comparison of Liposomal Bupivacaine, Plain Bupivacaine, and Placebo for Transversus Abdominis Plane Blocks: A Randomized, Blinded Trial - TAP	Pacira Pharmaceuticals	Turan	\$507,139	2021-26

Aerus Operating Room Air Filtration/Sterilization and Surgical Site Infection: A Randomized Multiple Cross-over Cohort Quality Improvement Trial	ActivePure	Sessler	1,384,615	2020-25
Cardinal Cooling Vest	Cardinal Health	Sessler	120,000	2020-22
Postoperative Benefits of Intraoperative NOL Titration	Medasense Biometrics, LTD	Ruetzler	\$304,000	2019-23
3M Medism Temple Touch Pro	3M	Sessler	55,916	2018-19
Association between IOH and AKI after non-cardiac surgery	Edwards Lifesciences	Sessler	61,538	2018-20
Measure Development Assistance	Mathematica	Maheswhari	\$20,000	2018- 19
A Validation of the Assisted Fluid Management Feature	Edwards Lifesciences	Maheshwari	155,664	2018-20
The Role of Acumen Hypotension Prediction Index Software in Hypotension Management During Moderate to High-Risk Non-cardiac Surgery	Edwards Lifesciences	Maheshwari	399,655	2018-20
Protocol Development	Attune	Sessler	25,000	2017-18
Prediction of Opioid-Induced Respiratory Depression (PRODIGY)	Coviden	Khanna	371,577	2017-18
PeRioperative HypOTermia and myoCardial injury afTer non-cardiac surgery (PROTECT)	3M	Sessler	1,350,000	2016-18
The Role of Noninvasive Beat-to-Beat Clearsight Blood Pressure Monitoring During Non-cardiac Surgery	Edwards Lifesciences	Maheshwari	\$268,000	2016-18
A Double-Blind, Randomized, Placebo-Controlled Study of Levosimendan in Patients with Left Ventricular Systolic Dysfunction Undergoing Cardiac Surgery Requiring Cardiopulmonary Bypass	Tenax Therapeutic	Duncan	119,632	2015-17
A Phase 3, Placebo-Controlled, Randomized, Double-Blind, Multi-Center Study of LJPC-501 in Patients with Catecholamine-Resistant Hypotension (CRH)	La Jolla Pharmaceutical Co	Khanna	203,212	2015-17
Effect of Goal-directed Crystalloid versus Colloid Administration	Fresenius Kabi	Kurz	205,223	2015-17
The Incidence and Severity of Postoperative Hypoxemia and Hypotension, and the extent to which each is missed by the current clinical monitoring routine	Sotera Wireless	Sessler	152,400	2015-17
TAP Blocks with Exparel versus Continuous Analgesia versus Intravenous Opioid Patients- controlled Analgesia	Pacira	Turan	1,792,284	2015-19
Spinal Warming and Arterio-venous Shunt Flow during General Anesthesia	Mercury Biomed LLC	Kurz	32,693	2015-16
Protocol development, data management and manuscript preparation	Raiing Medical	Sessler	39,750	2015-16

Heat Transfer	Advance Cooling	Sessler	33,000	2015-16
A Randomized Controlled Investigation of the Effects of 6% Hydroxyethylstarch 130/0.4 (Voluven) on Renal Function in Patients Having Aortic Valve Replacement with or without Coronary Artery Bypass Grafting	Fresenius Kabi	Duncan	214,607	2014-16
Study of Current Standard of Care in the US: Incidence of postoperative events and efficiency of surgery in current practice among patients exposed to reversals of neuromuscular blocking agents in the Cleveland Clinic	Merck	Saager	231,250	2014-15
Neuros Data and Safety monitoring board and statistical analysis agreement	Neuros Medical	Sessler	109,865	2014-16
Data Use Agreement with Medisim	Medisim LLC	Sessler	7,000	2014-15
Carefusion Data use Agreement	Carefusion	Sessler	10,000	2014
Detection and Prediction of Postoperative Acute Myocardial Ischemic Injury/ Infraction by the VectraplexECG System with CEB	VectraCor Inc.	Sessler	183,846	2014-16
Prevention of Atrial Arrhythmias and Delirium after Cardiac Surgery with Dexmedetomidine	Hospira	Turan	527,859	2013-16
Effect of IV Acetaminophen on Postoperative Opioid Related Complications	Cadence Pharma	Turan	589,111	2013-16
TAP Blocks with EXPAREL versus Continuous Epidural Analgesia versus Intravenous Opioid Patients-controlled Analgesia	Pacira Pharmaceuticals	Ayad	33,700	2014
Transcend Trial	Pacira Pharmaceuticals	Ayad	38,750	2013-14
Protocol 402-C-323. Safety, Efficacy, and Pharmacokinetics of Single Injection Femoral Nerve Block with Liposome Bupivacaine	Pacira Pharmaceuticals	Ayad	29,115	2013
Insufficient Block	Merck	Saager	236,300	2013-14
Abbvie Registry	AbbVie	Sessler	81,000	2013-14
Abbvie Cardiac Registry	AbbVie	Sessler	81,000	2013-14
Abbvie Non- Cardiac M13-958	AbbVie	Sessler	180,579	2013-14
3M Temperature Management	3M	Kurz	158,770	2013-15
Hypothermia	3M	Kurz	73,385	2013-15
Effect of Goal-directed Crystalloid versus Colloid Administration	Fresenius Kabi	Kurz	120,000	2013-15
AXCELRX 2	Axcelrx Pharma	Turan	54,187	2012-13

Protocol 402-C-323. Safety, Efficacy, and Pharmacokinetics of Single Injection Femoral Nerve Block with Liposome Bupivacaine	Pacira Pharma	Turan	38,975	2012-13
Outcomes Research Consortium Annual Meeting	Hospira	Sessler	11,000	2013
R.E.C.I.T.E.	Merck	Saager	36,500	2012-13
Outcomes Research Consortium Annual Meeting	Hospira	Sessler	11,000	2012
Safety of the Sufentanil NanoTab PCA System	AcelRX	Turan	147,440	2012-13
Incidence of Perioperative Anaphylactic Reactions	Merck	Saager	234,000	2011-14
Effect of Goal-directed Crystalloid versus Colloid Administration	Hospira	Kurz	124,900	2011-14
A Multi Center Randomized open-label Surgical Surveillance	Cumberland Pharmaceutical	Turan	58,400	2011-12
The effects of dexmedetomidine and propofol on cerebral blood flow	Hospira	Farag	108,900	2010-14
Remifentanyl versus dexmedetomidine	Hospira	Rajan	19,700	2010-14
Postoperative outcomes in patients who receive dexmedetomidine	Hospira	Turan	18,500	2010-12
Deep temperature monitor evaluation	Arizant Healthcare	Sessler	96,900	2009-11
Exploratory method-comparison evaluation of a disposable zero-heat flow thermometry system	Arizant Healthcare	Sessler	218,000	2009-11
Unrestricted educational grant	Hospira	Sessler	9,500	2011
Unrestricted educational grant	Hospira	Sessler	8,500	2010
LMA Perfec Temp vs. Forced Air Warming	LMA North America	Sessler	173,000	2010
Unrestricted educational grant	Hospira	Sessler	6,000	2009
Unrestricted educational grant	PharMEDium	Sessler	5,000	2009
Sugammadex trial #19.4.319	Organon	Foss	57,500	2009-11
Dexlerium POCD	Aspect Medical	Sessler	53,800	2009-14
BIS and long-term outcomes	Aspect Medical	Sessler	1,980,000	2009-17
ASPECT Medical Data Collaborating Agreement	Aspect Medical	Sessler	146,155	2008-13
Breast Cancer Recurrence	Aspect Medical		91,200	2008-13
Efficacy and Safety of Drotrecogin Alfa (Activated) in Adult Patients with Septic Shock	Eli Lilly	Noguera	5,800	2008-09
Safety and Efficacy Effects of ART-123 on subjects With Sepsis and DIC	Artisan Medical	Noguera	6,800	2008-09
Evaluation of a dual-sensor thermometer	Dräger	Kurz	42,000	2008-09

Cost of PONV, societal perspective	MGI	Sessler	198,200	2008-09
Tissue oxygenation and major morbidity	Hutchinson	Abdelmalak	23,000	2008-09
Anesthetic depth and new-onset cancer	Aspect Medical	Sessler	63,400	2008-10
Efficacy, Tolerability, Safety, and Pharmacokinetics of 4975 for TKA	Anesiva	Mounir-Soliman	57,600	2008
Anesthetic depth and colon cancer recurrence	Aspect Medical	Sessler	20,000	2008
Comparison of two intraoperative patient warming systems	Cardinal / Dynatherm	Sessler	178,100	2008
The effect of hyperinsulinemic glucose control on outcomes after cardiac surgery	Novo Nordisk	Duncan	30,000	2008-11
Unrestricted educational grant	Hospira	Sessler	13,200	2007-8
The Effects of Corticosteroids, Glucose Control, and Depth-of-Anesthesia on Perioperative Inflammation and Morbidity	Aspect Medical	Abdelmalek	303,800	2007-10
Safety and efficacy of activated recombinant factor VII (rfviiia/novoseven) in the treatment of post-operative bleeding	Nova Nordisk	Koch	6,200	2007
Safety and pharmacokinetics of recombinant factor XIII for myocardial revascularization	Nova Nordisk	Koch	13,400	2007
An evaluation of aspect's bilateral sensor and bis vista monitor's bilateral user interface	Aspect Medical	Avitsian	12,200	2007-08
A phase 3, double-blind, randomized, parallel-group study of intravenous (IV) methylnaltrexone (MNTX) in the treatment of postoperative bowel Dysfunction	Progenics	Lewis	32,500	2007-08
Safety & tolerability of tezosentan in patients with pre-operative pulmonary hypertension	Actelion	Yared	27,200	2007
Use of DX-88 for the reduction of blood loss associated with cardiopulmonary bypass	Dyax	Yared	16,500	2007-08
Prevention of postoperative delirium in subjects undergoing surgery for fractured hip	Hospira	Noguera	64,800	2007
A Phase III randomized, multicenter study evaluating the safety and efficacy of dexmedetomidine for sedation during procedures requiring monitored anesthesia care	Hospira	Feldman	244,200	2007
The accuracy of end-tidal PCO ₂ measurements with main-stream and micro-stream capnography in non-intubated lean and obese patients with and without obstructive sleep apnea	Nihon Kohden	Komatsu	28,000	2006-07
Hypercapnia and surgical wound infection	Hutchinson Technology	Sessler	110,000	2006-08

Effect of dexmedetomidine on motor and somatosensory evoked potentials in patients undergoing spine surgery	Hospira	Farag	45,500	2006-07
The effects of dexmedetomidine and desflurane on postoperative cognitive dysfunction in patients undergoing carotid endarterectomy	Hospira	Farag	12,300	2006-08
Phase III, randomized, double blind placebo controlled, multicenter study evaluating the safety and efficiency of dexmedetomidine used for sedation during elective awake fiberoptic intubation	Hospira	Zura	34,200	2006-07
Under-body warming during cardiac surgery	Arizant Medical	Insler	101,000	2006
The effect of local oxygen insufflation on tissue oxygen in sternal wounds	Ogenix	Insler	36,900	2006
Operative nausea and vomiting after elective abdominal or gynecological laparoscopic surgery, major plastic surgery, or cardiovascular surgery	MGI	O'Hara	69,000	2005
The effects of local warming and postoperative supplemental oxygen on the risk of surgical wound infection	Augustine Medical	Sessler	135,000	2004-5
Comparison of three surface warming methods: direct conduction thermal pads, circulating water garment, and forced-air blanket	Kimberly Clark	Sessler	70,000	2004-05
The effect of nefopam on the gain of shivering	Biocodex Laboratoires Kurz		20,000	2004-05
Use of perilaryngeal airway (PLA) versus laryngeal mask airway in pediatric patients	Engineered Medical Systems	Szmuk	35,000	2004-05
Effects of the WarmUp heated bandage and supplemental postoperative oxygen administration on the incidence of surgical wound infection in morbidly obese patients	Augustine Medical	Wadhwa	145,000	2004-05
Development of a protocol to evaluate the effects of local heating on the risk of surgical wound infection	Augustine Medical	Sessler	10,000	2004
A Randomized, Double-Blind, Active Comparator-Controlled, Parallel-Group Study Conducted Under In-House Blinding Conditions, to Examine the Safety, Tolerability, and Efficacy of 2 Doses of Aprepitant for the Prevention of Postoperative Nausea and Vomiting	Merck	Sessler	65,000	2003-04
A Phase II Double-Blind Randomized Parallel Group Study of IV Methylnaltrexone in the Prevention of Post-Operative Ileus	Progenics	Sessler	10,000	2003-04
Total and evaporative cutaneous heat loss with three surgical drapes	Cardinal Health	Sessler	45,000	2003
Unrestricted funding for Grant Writer's Workshop.	Pfizer	Sessler	7,000	2003
Equipment matching grant	Ocean Optics	Akça	2,000	2003

BIS <i>versus</i> Automated Response Testing,	Scott Laboratories	Sessler	10,000	2003
Clinical Protocol for a Double-Blind, Multicenter Study of the Safety and Efficacy of Parecoxib Followed by Valdecoxib Compared to Placebo in General Surgery Patients for Treatment of Post-Surgical Pain	Pharmacia	Lenhardt	11,000	2002-03
Is the Perilaryngeal Airway (PLA) a Better Laryngeal Airway than the Laryngeal Mask Airway (LMA)?	Engineered Medical Systems	Akça	45,000	2002
A Double Blind, Placebo Controlled, Parallel Group Study of the Effects of Zoniporide on Perioperative Cardiac Events in High Risk Subjects Undergoing Noncardiac Vascular Surgery	Pfizer	Liem	50,000	2002-03
Effect of hand or facial warming on the threshold and gain of shivering	Augustine Medical	Sessler	10,000	2002
Evaluation of the Vigilant Care System during colonoscopy with premedication	Ethicon Endo-Surgery	Doufas	60,000	2002
Evaluation of the Vigilant Care System during EGD	Ethicon Endo-Surgery	Doufas	70,000	2001-02
Cancer recurrence in patients having mild hypothermia during colon resection	Augustine Medical	Sessler	70,000	2001-02
Evaluation of the Vigilant Care System during colonoscopy	Ethicon Endo-Surgery	Sessler	40,000	2001
Synergistic thermoregulatory inhibition with dexmedetomidine and meperidine	Radiant Medical	Sessler	20,000	2001
Thermal manipulations using an internal heat exchanger	Radiant Medical	Sessler	20,000	2000-01
Resistive heating in the emergency department.	ThermaMed	Sessler	7,000	2000-01
Clinical evaluation of a high-dose μ antagonist	Adolar	Sessler	60,000	2000-01
Prediction of perioperative hypothermia.	Augustine Medical	Sessler	50,000	2000-01
Evaluation of the GO ₂ supraglottic airway	Augustine Medical	Sessler	5,000	2000
Convective and radiant warming, Acupuncture	Augustine Medical	Sessler	15,000	2000
Sedation with propofol	Scott Laboratories	Sessler	150,000	2000
Treatment of postoperative ileus	Adolar	Sessler	60,000	2000
Speed and toxicity of various induction techniques	Aspect Medical	Sessler	5,000	2000
Synergistic drug combinations for induction of therapeutic hypothermia	Radiant Medical	Sessler	115,000	1999-00
Sedation threshold with propofol and propofol/N ₂ O	Scott Laboratories	Sessler	116,000	1999-00
Speed, cost, and efficacy of induction methods	Abbott	Sessler	3,000	1999
EMG interference with EEG processing. Aspect Medical	Aspect Medical	Sessler	5,000	1998-99
Effect of muscle relaxation on facial EMG	Patient Comfort	Sessler	40,000	1998-99

Very mild hypothermia and blood loss. Augustine Medical	Augustine Medical	Sessler	40,000	1998
Carbon-fiber heating for accidental hypothermia	ThermaMed	Sessler	30,000	1998
Local warming of diabetic ulcers	Augustine Medical	Sessler	110,000	1998
Physical treatment of fever. Augustine Medical	Augustine Medical	Sessler	55,000	1998
Bispectral EEG analysis	Aspect Medical	Sessler	6,000	1997
Heat balance during cardiopulmonary bypass	Augustine Medical	Sessler	50,000	1997-98
Muscle relaxants and detection of anesthetic depth	Patient Comfort	Sessler	20,000	1997-98
Patient-controlled sedation	Scott Laboratories	Sessler	38,000	1997
Efficacy and safety of a supraglottic airway	Augustine Medical	Sessler	50,000	1997
Thermoregulatory effects of tramadol	Searle	Sessler	30,000	1997
Perioperative consequences of hypothermia	Augustine Medical	Sessler	100,000	1996-97
Local warming and wound healing	Augustine Medical	Sessler	115,000	1996-98
Dexmedetomidine and thermoregulation	Abbott	Sessler	45,000	1996
Anesthetics and the pupillary light reflex	Fairville Medical Optics	Sessler	54,000	1995-97
Negative pressure and cutaneous heat transfer	Hill-Rom	Sessler	6,000	1995
Perioperative infections and coagulation	Augustine Medical	Sessler	285,000	1995-96
Hypothermia and wound healing	Augustine Medical	Sessler	50,000	1993-94
Perianesthetic thermoregulatory responses	Augustine Medical	Sessler	85,000	1993-94
Respiratory heating and thermoregulatory Responses	Pall	Sessler	8,000	1992-93
Hypothermia and wound infection	Mallinckrodt	Sessler	5,000	1992
Bispectral EEG analysis	Aspect Medical	Sessler	13,000	1992-95
Infrared thermography	Exergen	Sessler	15,000	1992-93
Pupillary responses during propofol anesthesia	ICI	Sessler	40,000	1992
Propofol and thermoregulation	ICI	Sessler	67,000	1990-92
Perianesthetic thermal balance	Augustine Medical	Sessler	293,000	1988-93
Airway humidification	Gibeck Respiration	Sessler	20,000	1987-89
Heat flux during anesthesia	Mon-a-Therm	Sessler	13,000	1987-88

Vecuronium and halothane MAC	American Antec	Sessler	28,000	1987-88
Brain anesthetic imaging and kinetics	Anaquest	Sessler	15,000	1985-86
Total Corporate Funding			\$24,845,249	
Total Peer-Reviewed and Corporate Funding			\$98,021,778 (75% peer-reviewed)	

TEACHING

Clinical Anesthesia and Resident Teaching

Two days/month clinical anesthesia, involving administration of anesthesia and hands-on teaching of residents in the operating room.

Dissertations:	Doctoral Dissertation Committee, UCSF School of Nursing, Judy West	1993-94
	Master's Dissertation Committee, San Francisco State, Department of Biology, Kathy Noyes	1995
	Doctoral Dissertation and Qualifying Committees, UCSF School of Nursing, Hildy Schell	2010-14
	Doctoral Dissertation Committee, University of Kwazulu Natal School of Medicine, Reitze N. Rodseth	2013
	Master Dissertation Committee, Case University Clinical and Translational Research, Andra Duncan	2014

Research Fellows

Name	Nationality	Dates	Subsequent Position
1. Nina Olofsson, M.D.	Sweden	1986-88	Faculty, Karolinska Institute, Sweden
2. Randi Støen, M.D.	Norway	1987-89	Faculty, University of Norway
3. James Hynson, M.D.	USA	1990-91	Faculty, UC San Francisco
4. Clark Sheffield, M.D.	USA	1990-92	US Navy Staff Physician
5. Denna Washington, M.D.	USA	1991	US Air Force Staff Physician
6. Makoto Ozaki, M.D.	Japan	1992-94	Prof & Chair, Tokyo Women's Univ., Japan
7. Kate Leslie, M.B.B.S.	Australia	1992-94	Faculty, University of Melbourne, Australia
8. Thomas Emerick, M.D.	USA	1992-93	Anesthesia resident, UC San Francisco
9. Andrea Kurz, M.D.	Austria	1992-95	Prof & Chair, University of Bern, Switzerland
10. Takashi Matsukawa, M.D.	Japan	1993-94	Faculty, Yamanashi Medical School
11. Christi Cheng, M.D.	USA	1993-94	Anesthesia resident, UC Davis
12. Radhika Annadata, M.D.	India	1994-95	Anesthesia resident, UC San Francisco
13. Junyu Xiong, M.D.	China	1994-95	Faculty, China University, Shenyang, China
14. David Clough, M.D.	Scotland	1995-96	Senior Registrar, Glasgow, Scotland
15. Olga Plattner, M.D.	Austria	1995-96	Faculty, University of Vienna
16. Farzin Tayefeh, M.D.	Iran	1995-97	Anesthesia Resident, King-Drew (UCLA)
17. Takehiko Ikeda, M.D.	Japan	1995-97	Faculty, Hamamatsu School of Medicine
18. Jan L. De Witte, M.D.	Belgium	1997	Attending, Univ Hospital Utrecht, Belgium
19. Jin-Soo Kim, M.D.	Korea	1995-97	Prof & Chair, Yonsei University, Korea

20.	Chiharu Negishi, M.D.	Japan	1996-98	Faculty, Tokyo Women's University, Tokyo
21.	Rainer Lenhardt, M.D.	Austria	1996-98	Faculty, University of Vienna, Austria
22.	Ozan Akça, M.D.	Turkey	1996-99	Faculty, University of Louisville
23.	Çem Arkiliç, M.D.	Turkey	1997-98	Post-doctoral Scholar, Washington Univ.
24.	Oliver Panzer, M.D.	Germany	1997-98	Res Assoc, Ependorf University, Germany
25.	Robert Greif, M.D.	Austria	1998-99	Director of Research, SMZO Hospital, Austria
26.	Sonja Laciny, M.D.	Austria	1998-99	Director, private pain clinic, Vienna
27.	Angela Rajek, M.D.	Austria	1998-99	Faculty, University of Vienna, Austria
28.	Maryam Bakhshandeh, M.D.	Germany	1999-00	Anesthesia residency, Savannah, GA.
29.	Alexander Kober, M.D.	Austria	1999-00	Anesthesia Resident, Univ. of Vienna, Austria
30.	Adel Mahgoub, M.D.	Egypt	1999-00	Anesthesia Faculty, Alexandria Univ., Egypt
31.	Anthony Doufas, M.D.	Greece	1999-00	Faculty, University of Louisville
32.	Masoud Mokhtarani, M.D.	Iran	1999-00	Research Associate, Biotechnology Co.
33.	Tanja Treschan, M.D.	Germany	2000-01	Anesthesia resident, Univ. of Essen, Germany
34.	Nobutada Morioka	Japan	2000-01	Faculty, Tokyo Women's University, Tokyo
35.	Irfan Suleman, M.D.	Canada	2000-01	Anesthesia Resident, Univ. Louisville
36.	Chung-Ming Lin, M.D.	Taiwan	2001-02	Faculty, Chang Gung University, Taiwan
37.	Yueksel Yucel, M.D.	Turkey	2001-02	Faculty, University of Vienna, Austria
38.	Catherine Binkley, D.D.S.	USA	2001-03	Faculty, University of Louisville
39.	Anupama Wadhwa, M.D.	India	2002-03	Faculty, University of Louisville
40.	Papiya Sengupta, M.D.	India	2002-04	Anesthesia resident, St Elizabeth's
41.	Steven Novak, M.D.	USA	2005-06	Anesthesia resident, Columbia University
42.	Ryu Kamatsu, M.D.	Japan	2003-06	Faculty, Tokyo Women's University
43.	Jang Hyeok In, M.D.	Korea	2004-06	Faculty, Catholic Hospital, Korea
44.	Mukadder Orhan-Sungur, M.D.	Turkey	2004-06	Faculty, University of Istanbul, Turkey
45.	Alparslan Turan, M.D.	Turkey	2005-06	Faculty, University of Louisville
46.	Mohamed Bakri, M.D.	Egypt	2005-07	Faculty, Assiut University Hospitals, Egypt
47.	Suman Rajagopalan, M.D.	India	2006	Anesthesia resident, Cleveland Clinic
48.	Endrit Bala, M.D.	Albania	2006-07	Anesthesia resident, The Cleveland Clinic
49.	Ramatia Mahboobi, M.D.	Iran	2006-07	Anesthesia resident, The Cleveland Clinic
50.	Edward Noguara, M.D.	USA	2007	Professional Staff, The Cleveland Clinic
51.	Hassan Nagem, M.D.	Egypt	2006-08	Anesthesia resident, The Cleveland Clinic
52.	Ankit Maheshwari, M.B.B.S.	India	2006-08	Anesthesia resident, The Cleveland Clinic
53.	Silvia Perez-Protto, M.D.	Uruguay	2007-08	Anesthesia resident, The Cleveland Clinic
54.	Donna Ding, M.D.	China	2007-08	Anesthesia resident, The Cleveland Clinic
55.	Tamer Said, M.D.	Egypt	2007-08	Anesthesia resident, Metropolitan Hospital
56.	Hyndhavi Chowdary, M.D.	India	2007-08	Anesthesia resident, The Cleveland Clinic
57.	Yusuke Kasuya, M.D.	Japan	2006-08	Faculty Tokyo Women's University
58.	Bleder Kovaci, M.D.	Albania	2007-09	Anesthesia Resident, Huron Hospital
59.	Sommath Bose, M.D.	India	2008-09	Anesthesia resident, The Cleveland Clinic
60.	Alaa Abd-Elseyed, M.D.	Egypt	2008-09	Anesthesia resident, University of Cincinnati
61.	Yuang Wu, M.D.	China	2008-10	Anesthesia resident, The Cleveland Clinic
62.	Rania Abdallah, M.D.	Egypt	2008-09	Anesthesia resident, Huron Hospital
63.	Lu Wang, M.D.	China	2009-10	Pathology resident, Ball Memorial Hospital
64.	Maria Mendoza-Cuartas, M.D.	Colombia	2009-10	Anesthesia Resident, Cleveland Clinic
65.	Yordanka Kirkova, M.D.	Bulgaria	2009-10	Internal Medicine Resident, Huron Hospital
66.	Ayako Shiba, M.D.	Japan	2008-10	Faculty, Teikyo University School of Medicine
67.	Angela Bonilla, M.D.	Colombia	2008-11	Internship, NEOUCOM, Case Western
68.	Ivan Parra-Sanchez, M.D.	Colombia	2008-11	Anesthesia Resident, Cleveland Clinic

69.	Maria Bauer, M.D.	Hungary	2009-11	Anesthesia Resident, Cornell University
70.	Thilak Sreenivasulu, M.D.	India	2009-11	Anesthesia Resident, Cleveland Clinic
71.	Armin Deroee, M.D.	Iran	2010-11	Anesthesia Resident, Cleveland Clinic
72.	Vafi Salmasi, M.D.	Iran	2011	Anesthesia Resident, Cleveland Clinic
73.	Awais Ahmed, M.D.	Pakistan	2011-12	Internal Medicine Resident, Univ of Canton
74.	Yashar Eshraghi, M.D.	Iran	2011-12	Anesthesia Resident, Metro General Hospital
75.	Michael M. N. Ghobrial, M.D.	Egypt	2011-12	Internal Medicine, Fairview, Cleveland Clinic
76.	Crissy Irani, M.D.	United States	2010-11	Interrupted fellowship to care for sick mother
77.	Albatoul Bensitel, M.D.	Morocco	2010-12	Master's program in clinical research
78.	Abdulkadir Atim, M.D.	Turkey	2010-13	Faculty, Gulhane Military Medical Academy
79.	Sheryar Sarwar, M.D.	The Netherlands	2010-13	Internal Medicine Resident, Case University
80.	Hooman Honar, M.D.	Canada	2010-17	Coordinator, Cleveland Clinic Las Vegas
81.	Krit Panjasawatwong, M.D.	Thailand	2010-13	Attending, Chiang Mai University, Thailand
82.	Michael Kot, M.D.	Egypt	2011-12	Anesthesia, Cleveland Clinic
83.	Ignatia Gazmuri Arrieta, M.D.	Chile	2011-12	Attending anesthesiologist, Univ. Catolica
84.	Raktim Ghosh, M.D.	India	2011-12	Internal Medicine resident, St. Vincent's
85.	Aram Shahinyan, M.D.	Armenia	2011-13	Anesthesia residency, Geisinger Clinic
86.	Jinbo Liu, M.D.	China	2011-13	Attending Physician, China
87.	Brian Hesler, M.D.	USA	2011-13	Professional Staff, Cleveland Clinic
88.	Raihan Malik, M.D.	Pakistan	2011-13	Internal Medicine resident, St. Vincent's
89.	Zhuo Sun, M.D.	China	2011-14	Anesthesia resident, Georgia University
90.	Babak Kashy, M.D.	Iran	2012-13	Regional anesthesia fellow, Cleveland Clinic
91.	Attila Podolyak, M.D.	Hungary	2012-13	Anesthesia resident, Cleveland Clinic
92.	Wael Lasheen, M.D.	Egypt	2012	Attending anesthesiologist, Egypt
93.	Youssef Sarweris, M.D.	Egypt	2013-14	Anesthesia resident, Cleveland Clinic
94.	Masood Haq, M.D.	Pakistan	2013-14	Anesthesia residency
95.	Zohaib Akhtar, M.D.	Pakistan	2011-14	Public Health, Johns Hopkins
96.	Mohsin Buttar, M.D.	Pakistan	2011-14	Medicine residency, Univ of Oklahoma
97.	Yosef Zeyed, M.D.	Libia	2012-14	University of Miami
98.	Hani Yousef, M.D.	Libia	2012-14	Northeast Ohio Medical School
99.	Akhil Singh, M.D.	India	2012-14	Anesthesia practice, Toronto
100.	Marwan Abdulsattar, M.D.	Iraq	2013-14	Anesthesia residency, Illinois Masonic
101.	Srinivasa Govindaraja, M.D.	India	2013-15	Anesthesia Residency, Cleveland Clinic
102.	Peirong Lin, M.D.	China	2014-15	Faculty, Beiging Anzhen Hospital
103.	Ronvat Babazade, M.D.	Turkey	2014-15	OB Anesth Fellowship, Univ Texas, Galveston
104.	Nika Karimi, M.D.	USA	2014-16	Anesthesia resident, University of Rochester
105.	Iman Suleiman, M.D.	Syria	2014-16	Resident, Northwestern
106.	Evis Cuko, M.D.	Albania	2014-15	Anesthesia resident, University of Georgia
107.	Chetan Lokhande, M.D.	India	2014-15	Internal Medicine residency, Fairview Hospital
108.	Michael Palma, M.D.	USA	2014-15	Medical education, Deltex, Inc.
109.	Wael Saasouh, M.D.	Lebanon	2014-16	Neuroanesthesia fellowship, Cleveland Clinic
110.	Seyhan Yagar, M.D.	Turkey	2014-15	Faculty, Istanbul
111.	Allen Belcher, M.D.	USA	2014-15	Internal Medicine residency, Cleveland Clinic
112.	Ming-Hui Hung, M.D.	China	2015-16	Faculty, National Taiwan University Hospit
113.	Onur Koyuncu, M.D.	Turkey	2015-16	Faculty, Mustafa Kemal University
114.	Yuan Jia, M.D.	China	2015-16	Faculty, Fuwai Hospital Beijing
115.	Dehua Wu, M.D.	China	2015-16	Faculty, Shanghai Chest Hospital
116.	Oguz Yilmaz, M.D.	Turkey	2015-16	Faculty, Merzifon Military Hospital
117.	Merve Kara	Turkey	2016	Faculty, Amasya University Research Hospital

118.	Praneeta Chodavarapu, M.D.	India	2015-17	Research scientist, Cincinnati Children's Hosp
119.	Steven Leung, M.D.	USA	2015-18	Radiology residency, Cleveland Clinic
120.	Karen Hovsepyan, M.D.	Armenia	2015-17	Pediatric residency, University of Toledo
121.	Min Wei, M.D.	China	2015-16	Attending, Peking Union Medical Center
122.	Prathima Kalasbail, M.D.	India	2015-17	Medical Reviewer, Sollers Institute
123.	Azfar Niazi, M.D.	Pakistan	2015-19	Orthopedic residency, Portsmouth, UK
124.	Nadav Schacham, M.D.	Israel	2016-17	Internal Medicine, Sheba Medical Center, Israel
125.	Gausan Bajracharya, M.D.	Nepal	2016-18	Anesthesia residency, Cleveland Clinic
126.	Sanchit Ahuja, M.D.	India	2016-18	Anesthesia residency, Henry Ford Hospital
127.	Kan Zhang, M.D.	Japan	2016-18	Anesthesia residency, Cleveland Clinic
128.	Partha Saha, M.D.	India	2016-19	Medical Scientist, Pacira Pharmaceuticals
129.	Barak Cohen, M.D.	Israel	2016-19	Attending anesthesiologist, Univ of Tel Aviv
130.	Miluska Mejia, M.D.	Peru	2017-18	Anesthesia residency, University of Rochester
131.	Mohammed Zafeer-Khan, M.D.	India	2017-19	Liver transplant fellowship, Univ. of Miami
132.	Myra Ahmed, M.D.	Egypt	2017-18	Family Medicine, Texas
133.	Eva Rivas, M.D.	Spain	2017-20	Faculty, Clinic de Barcelona
134.	Marianne Tanios, M.D.	Egypt	2017-19	Research coordinator, University Hospitals
135.	Dilara Khoshknabi, M.D.	Azerbaijan	2017-20	Consultant, Colorectal Surgery, Columbia Univ
136.	Remie Saab, M.D.	Lebanon	2017-21	Internal medicine residency, Univ Hospitals
137.	Hani Essbar, M.D.	Syria	2017-23	Research fellow, University of Graz
138.	Ilker Ince, M.D.	Turkey	2018-19	Assistant professor, Penn State Hershey
139.	Hassan Hamadnalla, M.D.	Egypt	2018-20	Anesthesia residency, Henry Ford
140.	Yuwei Qiu, M.D.	China	2018-19	Faculty, Shanghai Chest Hospital
141.	Tetsuya Shimada, M.D.	Japan	2018-20	Faculty, Moyama Medical Center
142.	Ahmed Salih, M.D.	Iraq	2018-20	Pediatric anesthesia fellowship, Univ Buffalo
143.	Mauro Bravo, M.D.	Venezuela	2018-21	Anesthesia residency, Cleveland Clinic
144.	Daniel Kim, M.D.	USA	2019-20	Anesthesia Research Fellowship, MD Anderson
145.	Qiliang Jiang, M.D.	China	2019	Faculty, Shanghai Chest Hospital
146.	Ibrahim Onal, M.D.	Turkey	2019-20	Faculty, Selcuk Univ School of Medicine
147.	Ruben Agudelo Jimenez, M.D.	Colombia	2019-20	Anesthesia residency, Univ. of Washington
148.	Jiayi Wang, M.D.	China	2019-20	Faculty, Shanghai Chest Hospital
149.	Xiaobao Zhang, M.D.	China	2019-20	Faculty, Nanjing Medical University
150.	Omar Bakal, M.D.	Turkey	2019-22	University of Texas, San Antonio
151.	Ece Yamak Altinpulluk, M.D.	Turkey	2019-21	Faculty, Cerrahpasa Medical School
152.	Andrew Volio, D.O.	United States	2019-21	Internal medicine residency, Ohio State
153.	Ahmed Algharrash, M.D.	Saudi Arabia	2019-21	Fellowship, McGill University
154.	Kai Li, M.D.	China	2019-21	Anesthesia Faculty, Japan-China Union Hosp
155.	Esra Kutlu Yalcin, M.D.	Turkey	2019-22	Anesthesia residency, Cleveland Clinic
156.	Fabio Rodriguez Patarrayo, M.D.	Colombia	2019-24	Anesthesia residency, U. Oregon
157.	Ahmed Al Gharrash, M.D.	Saudi Arabia	2020-21	Cardiac anesthesia fellowship, McGill Univ
158.	Jorge Araujo Duran, M.D.	Colombia	2020-23	Internal medicine residency, University Hosp
159.	Mateo Montalvo, M.D.	Ecuador	2020-22	Resident, Int Med, Yale Bridgeport Hospital
160.	Sinem Sari Ozturk, M.D.	Turkey	2020-21	Faculty, Adnan Menderes university
161.	Jeevan Shivakumar, M.D.	India	2020-21	Resident, Int Med, Montefiore Med Ctr
162.	Marc Schmidt, M.D.	Switzerland	2020-21	Anesthesia faculty, University of Zurich
163.	Elyad Ekrami, M.D.	Iran	2020-23	Anesthesia residency, Cleveland Clinic
164.	Federico Almonacid, M.D.	Colombia	2020-23	Anesthesia residency, Oregon Health Sciences
165.	Eitan Scher, M.D.	Venezuela	2021-22	Anesthesia residency, McLaren Flint
166.	Jack Brooker, M.D.	Scotland	2021-23	Anesthesia resident, University of Oregon

167.	Orkun Kopac, M.D.	Turkey	2021-23	Anesthesia residency, UT Health
168.	Tyler Karras, M.D.	USA	2021-22	Anesthesia residency, Alleghany Health
169.	Gokhan Sertcakacilar, M.D.	Turkey	2021-22	Bakırköy Dr. Sadi Konuk Research Hospital
170.	Yacin Tire, M.D.	Turkey	2021-22	Assoc Prof, Konya City Hospital, Turkey
171.	Julian V. Rössler, M.D.	Switzerland	2022-23	Anesthesia residency, Univ. of Zurich
172.	Busra Tok Cekmecelioglu, M.D.	Turkey	2022-23	Anesthesia residency, Cleveland Clinic
173.	Rupashi Mukhia, M.D.	Nepal	2022-23	Anesthesia residency, Mayo Clinic Florida
174.	Valentina Lara-Erazo, M.D.	Colombia	2022-23	General surgical residency, Zucker SOM
175.	Nikola Anusic, M.D.	Montenegro	2022-23	Anesthesia residency, Lahey Clinic
176.	Deeven Karki, M.D.	Nepal	2022-23	Internal medicine residency, Akron General
177.	Maria J. Corrales-Martinez, M.D.	Colombia	2022-23	Hospital anesthesiologist, Bogota, Colombia
178.	Maedeh Zokaei Nikoo, M.D.	Iran	2022-23	Internal medicine residency, University Hosp
179.	Sumi Singh, M.D.	Nepal	2022-23	Int. Med residency, University of Buffalo
180.	Leonardo Marquez Roa, M.D.	Venezuela	2022-24	Anesthesia residency, Cleveland Clinic
181.	Alper Gulluoglu, M.D.	Turkey	2022-24	Research fellow, Beth Israel Hospital
182.	Sara Medellin, M.D.	Colombia	2023-24	Anesthesia residency, University of Iowa
183.	Ahmad Al Jarkas, M.D.	Romania & Syria	2023-24	Anesthesia residency, Lahey Clinic
184.	Aram Abbas, M.D.	Syria	2023-24	Family Medicine, St Elizabeth's Youngstown
185.	José Luis Diz Ferre, M.D.	Argentina	2023-24	Research fellow, Card Surg, Cleveland Clinic
186.	Biyas Thapa, M.D.	Nepal	2023-24	Internal medicine residency, Akron General
187.	Lukas Mueller-Wirtz, M.D.	Germany	2023-24	Staff Anesthesiologist, Erlangen Univ, Germany
188.	Carolin Mueller, M.D.	Germany	2023-24	Ob-Gyn residency, Erlangen Univ, Germany
189.	Sascha Ott, M.D.	Germany	2023-24	Head, Cardiovascular ICU, Heart Center Berlin
190.	Mehmet Yazar, M.D.	Turkey	2023-24	Associate Prof. Anesthesiology, Konya, Turkey
191.	Huan Hsu, M.D.	Taiwan	2023-24	Attending, Taichung Veterans General Hospital
192.	Mohammed Khudirat, M.D.	Jordan	2023-	Research fellow, UTHealth, Houston
193.	Al Al-Malalla, M.D.	Saudi Arabia	2023-24	Attending anesthesiologist
194.	Aline Reuter, M.D.	Brazil	2023-5	Anesthesia residency, Univ. Connecticut
195.	Ayman Alhammadi, M.D.	Saudi Arabia	2023-	
196.	Catalina Dussan, M.D.	Colombia	2023-	
197.	Sharareh Barband, M.D.	Iran	2024	Chronic pain research fellowship, CCF
198.	Jibran Ikram, M.D.	Pakistan	2024	Cardiology research, Cleveland Clinic
199.	Girahnaz Baloch, M.D.	Pakistan	2024	Internal Medicine Residency, Akron General
200.	Yara Dias, M.D.	Brazil	2024-	
201.	Aairya Srinivasan, M.D.	India	2024-	
202.	Ammar Lakda, M.D.	United Kingdom	2024-	
203.	Roya Alp, M.D.	Turkey	2024-	
204.	Loay Allafy, M.D.	Egypt	2025-	OB Anesth Fellow, Jennie Sealy Hospital
205.	Adriana Baranov, M.D.	Moldova	2025-	
206.	Lucas Oliveira Nacif, M.D.	Brazil	2025-	
207.	Rita Chamoun, M.D.	Syria	2025-	
208.	Vaishakh Tharavath, M.D.	India	2025-26	
209.	Yun-Tai Yao, M.D., PhD.	China	2025-26	Attending, Fuwai Hospital, Beijing, China
210.	Josephine Tolan, M.D.	USA	2025-	

Graduate Students (*Working full time one or more years*)

Name	Nationality	Dates	Subsequent Position
1. Pamela Mills, Ph.D.	USA	1985-87	Faculty, University of Wisconsin
2. Joseph McGuire, B.S.	USA	1989-92	Medical student, UC San Francisco
3. Mark Schroeder, B.S.	USA	1991-93	Medical student, Univ. of NY, Albany
4. Kristen Walter, B.A.	USA	1992-93	Medical student, Harvard
5. Mike Lopez, B.S.	USA	1992-93	Anesthesia resident, Univ. of Virginia
6. Benjamin Merrifield, B.A.	USA	1992-94	Medical student, Case Western
7. Martha Dechert, B.A.	USA	1994-95	Medical student, Hahnemann University
8. Danielle Marder, B.S.	USA	1995-96	Medical student, Dartmouth
9. Rick Christensen, B.A.	USA	1994-97	Medical Student, Boston University
10. Thomas Scheck, B.S.	Austria	1999-01	Anesthesia Resident, Univ. of Vienna
11. Priya Varma, B.S.	USA	2007-09	Medical Student, Touro College
12. Ethan Bernstien, B.S.	USA	2009-11	Medical Student, Uniformed Services
13. Cammeron Egan, B.S.	USA	2009-12	Medical Student, Boston University
14. Patrick Finnegan, B.S.	USA	2011-13	Medical Student, Ohio University
15. Alexa Fiffick, B.S.	USA	2013-14	Medical Student, Alabama Osteopathic Med
16. Joseph Saxon, B.S.	USA	2014-15	Student, Cleveland Podiatric Medicine
17. Bianka Nguyen, B.S.	USA	2014-15	Ohio University Osteopathic Medicine
18. Matthew Hutcherson, B.S.	USA	2013-16	University of Toledo College of Medicine
19. Amanda Naylor, B.S.	USA	2013-16	Graduate student, Loyola University
20. Taylor Stang, B.S.	USA	2015-16	Ohio University Osteopathic Medicine
21. Eric Reville, B.S.	USA	2015-17	Medical student, Ohio State University
22. Linda He, B.S.	USA	2016-17	Eastern Virginia Medical School
23. Adam Morris, B.S.	USA	2016-17	Heritage College of Osteopathic Medicine
24. Joseph Vitale, B.S.	USA	2016-17	Northeastern Ohio Medical University
25. Quinton Riter, B.S.	USA	2016-17	Heritage College of Osteopathic Medicine
26. Logan Glosser, B.A.	USA	2016-18	University of Toledo Medical School
27. Paul Minko, B.S.	USA	2017-19	LECOM, Masters in Medical Science
28. Assad Ali, B.S.	USA	2017-19	NSU College of Osteopathic Medicine
29. Kavita Elliott, B.S.	USA	2017-19	Coordinator, Digestive Disease Institute
30. CeCelia Hanline, M.H.S.	USA	2017-19	Ohio University School of Medicine
31. Yousuf Raza, B.S.	Pakistan	2017-19	Coordinator, Digestive Dis, Cleveland Clinic
32. David Chelnick, B.S.	USA	2017-20	Ohio University Medical School
33. Adam Hochman, M.S.	USA	2018-19	Medical College of South Carolina
34. Lauretta Mosteller, B.A.	USA	2018-20	George Washington Univ. Medical School
35. Sofiya Lozovskiy, B.S.	USA	2019-20	Ohio Univ School of Osteopathic Medicine
36. Andrew Chiu, B.S.	USA	2019-20	Drexel University Medical School
37. Alexis Skolaris, B.S.	USA	2019-21	Coordinator, Neurological Inst, Cleveland Clinic
38. David Lynn, B.S.	USA	2020-20	Coordinator, Taussig Cancer Center
39. David Hoying, B.S.	USA	2020-21	Case Western Medical School
40. Oguzalp Turan, M.S.	USA	2020-21	Northeast Ohio Medical School
41. Stephanie Ezeoke, B.S.	USA	2021-22	SUNY Upstate Medical University
42. Kiran Winemiller, B.S.	USA	2021-22	Case Western Dental School
43. Anne Ciprini, B.S.	USA	2021-22	Case Western Medical School
44. Nicole Brown, B.S.	USA	2021-22	
45. Maeve Slife, B.S.	USA	2022-23	University of Cincinnati Medical School
46. Richard Gatt, B.S.	USA	2022-23	Master in Anesthesia, Case Western

47.	Michael Mosqueda, B.S.	USA	2022-23	MBA healthcare administration, Lamar Univ.
48.	Richie Hofstra, B.S.	USA	2022-24	Ohio State Medical School
49.	Faegheh Miryousefiata M.D.	Iran	2023-24	
50.	Sruthi Sagiraju	India	2024	Research Assistant, Exact Sciences

Medical Students (*Working full time one or more years*)

Name	Nationality	Dates	Subsequent Position
1. Seetharam Chadalavada, B.S.	USA	2007-08	Radiology Resident, Univ of Pennsylvania
2. Beverly Jong, B.S.	USA	2007-08	Anesthesia Resident, Cleveland Clinic
3. James Beckman, B.S.	USA	2007-08	Orthopedic Resident, University of Utah
4. Sarah Pecorak, B.S.	USA	2007-08	Pediatric Resident, Duke
5. Dmitry Roberman, B.S.	USA	2008-09	Anesthesia Resident, Drexel University
6. Stephanie Weiss, Ph.D.	USA	2009-10	Emergency Medicine Resident, Univ Mass
7. Alexandra Chludzinski, B.S.	USA	2011-11	Anesthesia residency, University of Iowa
8. Alex Fu, B.S.	USA	2011-12	Anesthesia residency, Oregon State, Portland
9. Vinayak Nadar, B.S.	USA	2013-14	Anesthesia residency, Univ. Minneapolis
10. Rodrigo Iglesias, B.S.	USA	2015-16	Anesthesia residency, University Pennsylvania
11. Christine Chang, B.S.	USA	2016-17	Cleveland Clinic Lerner College of Medicine
12. Michael Walters, B.S.	USA	2017-18	Cleveland Clinic Lerner College of Medicine
13. Janet Adegbeye, B.S.	USA	2018-19	Anesthesia residency, Johns Hopkins
14. Metabel Markwei, B.S.	USA	2020-21	OB-GYN residency, Stanford University
15. Rod Nault, B.S.	USA	2020-21	Case Western Research School of Medicine
16. Emily Abramczyk, B.S.	USA	2022-23	Cleveland Clinic Lerner College of Medicine
17. Michael Ryan, B.S.	USA	2022-23	Cleveland Clinic Lerner College of Medicine
18. William Patterson, B.S.	USA	2023-24	Anesthesia residency, Johns Hopkins

The Outcomes Research Consortium

The **OUTCOMES RESEARCH** Consortium was formed in 1990 at the University of California in San Francisco and subsequently became an institute when the group's administrative center moved to the University of Louisville in March of 2000. In 2005, **OUTCOMES RESEARCH** became a department at the Cleveland Clinic.

OUTCOMES RESEARCH is non-profit; its only goal is thus participation in high-quality research. Daniel Sessler is the director; the Associate Director is Alparslan Turan, M.D. (Cleveland, OH). The group includes more than 200 university-based investigators in more than 20 countries including the United States, Canada, Germany, Austria, Switzerland, Ireland, South Africa, Japan, China, Australia, and France.

The Consortium coordinates more than 200 clinical studies, including many large multi-center outcome trials. Much of the Consortium's funding is from the National Institutes of Health and other peer-reviewed granting agencies. The Consortium facilitates scientific exchange and collaboration necessary for technically complex outcomes studies involving hundreds or thousands of patients. **The Consortium publishes a full paper every other day, for a total now exceeding 2,000 papers.** More than 3 dozen were published in *Lancet* or the *New England Journal of Medicine*. A dozen Consortium members subsequently chaired anesthesia departments. Additional information is available at www.or.org. The [editorial](#) below in Anesthesiology celebrates the 25-year anniversary of the Consortium.

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Outcomes Research Consortium's 25th Anniversary

Henry Rosenberg, M.D.

IMAGINE a research group made up of more than 100 members working both independently and collaboratively across many countries having no legal standing, no bank account, and loosely organized, but devoted to the goal of improving health care through the understanding of the results of health care practices. Furthermore, imagine that members of this organization have published more than 900 full journal articles since its inception and publish a new full paper every 5 days. It may be hard to believe that such a unique organization exists, but it does. It is known as the Outcomes Research Consortium.

The Outcomes Research Consortium (www.OR.org) was founded by Dr. Daniel I. Sessler in 1990. The Consortium grew out of The Thermoregulation group at the University of California, San Francisco, concerned with understanding the effects of anesthetics on thermoregulation. The group's studies showed that every major anesthetic and sedative alters thermoregulatory control and heat



it moved to the Cleveland Clinic, Cleveland, Ohio, at which time Dr. Andrea Kurz was appointed as Associate Director, and Dr. Kurz is also the Professor and Chair of the Department of General Anesthesiology at the Cleveland Clinic, Cleveland, Ohio. The aspiration of the consortium, as explained on its website, is "... to understand the end results of particular health care practices and interventions." It does this by ongoing collaboration among about 130 investigators distributed over more than 20 countries. All members of the group agree to collaborate with at least one other member of the group from another institution. There are no membership dues, and the members are free to conduct independent research, but publications are attributed to the Consortium only when the affiliation includes "Outcomes Research." Financial support for the research projects is derived from governmental, foundation, and corporate grants to the investigators and their institutions, not the consortium, and is administered locally.

"... the Outcomes Research Consortium is a unique, virtual research organization that values and promotes first-rate clinically relevant research related to anesthesia and perioperative medicine, while training future researchers."

OUTCOMES RESEARCH Consortium Members Who Subsequently Chaired Departments

Name	Department Chaired	Appointment Date
1. Makoto Ozaki, M.D.*	Anesthesia, Tokyo Women's University	2000
2. Jin-Soo Kim, M.D.*	Anesthesia, Yonsei University	2001
3. Béla Fülesdi, M.D.	Anesthesia, University of Debrecen	2002
4. Ernst-Peter Horn, M.D.	Anesthesia, Klinikum Pinneberg	2002
5. Andrea Kurz, M.D.*	Anesthesia, University of Bern	2002
6. Naoki Kotani, M.D.	Anesthesia, Yamagata University	2003

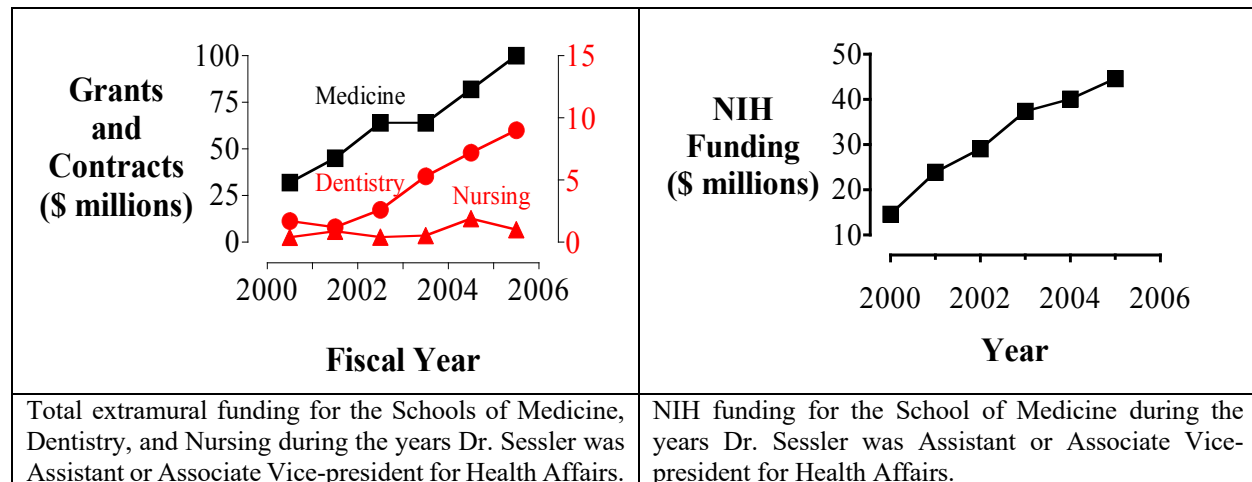
7. Taka Matsukawa, M.D.*	Anesthesia, Yamanashi University	2006
8. Marc Schroeder, M.D.*	Anesthesia, Alta Bates Medical Center	2010
9. Takahiko Ikeda, M.D.*	Anesthesia, National Defense Medical College	2017
10. Dehua Wu, M.D.*	Songjiang Hospital, Shanghai Jiao Tong Univ	2021
11. Jason Wu, M.D.	Shanghai Chest Hospital	2023
12. Harendra Arora, M.D.	Anesthesiology, Univ of Mississippi, Jackson	2023
13. Kurz Ruetzler, M.D.	Hospital Deaconess Linz	2025

*Dr. Sessler's fellow

Administrative Work at the University of Louisville.

From 2000 to 2005, Dr. Sessler was Associate/Vice Dean for Research in the School of Medicine and Assistant/Associate Vice-president for Health Affairs. As Vice-dean and Associate Vice-president, Dr. Sessler was the chief research official for all three schools of the Health Sciences Center at the University of Louisville. This was a period of extraordinary growth for the University, stimulated by the "Challenge for Excellence," an innovative State program designed to increase research productivity. (Health Science research at University of Kentucky, which received twice the State "Challenge" funding, was essentially stagnant during this period.) Extramural funding to each of the University of Louisville Health Sciences Center schools increased more than three-fold during Dr. Sessler's tenure (figure left). NIH funding to the School of Medicine also increased by a factor-of-three (figure right). NIH rank of the Medical School improved from 87 to 73 during this period.^f

For about a year in 2004 and 2005, Dr. Sessler served as Acting Chair of the Department of Anesthesiology. Administrative accomplishments during this period included: 1) instituting \$900,000/year ($\approx 10\%$) saving; 2) new billing procedures that increased net revenues by $\approx \$1$ million dollars/year; 3) increased faculty salaries by an average of \$20,000/year; 4) balanced the Departmental budget for the first time; 5) eliminated six troublesome employees; 6) hired four new faculty; 7) doubled the number of procedures performed in the Pain Clinic without increasing staffing; 8) completely revamped the departmental web site; and, 9) filled all ten categorical residency positions with US graduates, half of whom were women. When Dr. Sessler arrived at the University of Louisville, the Department of Anesthesia had never had an NIH grant; when he left, it was ranked number 35 among all anesthesia departments.



EPONYMOUS LECTURESHIPS

1. Thermoregulation. **Ellis Gillespie Lecture**, Australia and New Zealand, College of Anaesthetists, Melbourne, Australia 2000
2. Perioperative thermoregulation, Malignant hyperthermia. **Hyman Brock Memorial Lecture**, McGill University, Montreal 2005

3. From thermoregulatory physiology to large-scale outcomes. **Shields Lecture**. University of Toronto, Canada 2007
4. Perioperative thermoregulatory. **Mary Burnell Lecture**. Australia and New Zealand, College of Anaesthetists Annual Meeting, Melbourne, Australia 2007
5. Long-term consequences of anesthesia. **Seymour Hoffman Lecture**. Israeli Society of Anesthesia Annual Meeting. Tel Aviv, Israel 2008
6. Long-term consequences of anesthesia. **Henry Rosenberg Lecture**. Philadelphia 2008
7. Long-term consequences of anesthesia. **Whitacre Lecture**. Cleveland 2008
8. Prolonged effects of perioperative management. **Bernard Eliasberg Lecture**. New York 2011
9. Long-term perioperative outcomes and Triple Low. **Richard Ament Memorial Lecture**. Can-Am Clinical Conference. Niagara Falls, Ontario 2011
10. Long-term outcomes. **Ralph M. Waters Visiting Professor**, University of Wisconsin, Wisconsin 2011
11. Solving a clinical problem: the thermoregulation story. **Rovenstine Lecture**. Postgraduate Assembly, New York, December 2011
12. The Thermoregulation Story. **Foundation Day**. Northwestern University 2013
13. How can anesthesia improve outcomes. **Royal College Lecture**. Winterlude Symposium Ottawa 2014
14. Postoperative myocardial infarction. **Davidson Memorial lecture**. Israeli Society of Anesthesia, Tel Aviv, September 2014
15. Postoperative myocardial injury, **Helrich-Matjasko lecture**, University of Maryland, Maryland, October 2015
16. Lost in Translation. **John Severinghuas Lecture in Translation Research**, American Society of Anesthesiologists Annual Meeting, Chicago October 2016
17. Lost in translation. **Joseph Priestley lecture**, Penn State Hershey, Hershey, December 2016
18. Lost in translation. **Orkin lecture**. Montefiore Medical Center, New York City, July 2017
19. Lost in translation. **Lawrence lecture**. University of Rochester, Rochester, May 2018
20. Lost in translation. **Crowford Long Lecture**. Emory University, Atlanta, March 2019
21. Myocardial injury. **Larry Duffy Lecture**. University of Texas Southwestern, Dallas, January 2020
22. **FAER-Helrich lecture**, American Society of Anesthesiologists Annual Meeting, October, San Diego 2021
23. **Nagin Parbhoo Special Lecture**, South African Society of Anesthesiologists, Virtual 2022
24. **Andres Hoeft Memorial Lecture**, European Society of Anaesthesia Annual Meeting, Glasgow, June 2023
25. **Rovenstine Lecture**, American Society of Anesthesiologists Annual Meeting, San Francisco, October 2023
26. **46th Manny Papper Lecture**, Columbia University, NYC, November 2023

INVITED LECTURES AND VISITING PROFESSORSHIPS (excluding >2,000 local presentations)

27. Pediatric practice in Liberia. Grand Rounds, Department of Pediatrics, University of California, Los Angeles, California, May 1981
28. Acid-base and partial pressure chemistry in anesthesia. Department of Chemistry, University of Texas, Austin, Texas, December 1984
29. It's all in your mind: The chemistry and medicine of the biogenic amines. Department of Chemistry, University of Texas, Austin, Texas, February 1985
30. Alcohol detection and metabolism. Department of Chemistry, University of Texas, Austin, Texas, September

31. Malignant hyperthermia. Grand Rounds, Department of Pediatrics, University of California, Los Angeles, California, March **1988**
32. Perioperative thermoregulation and tremor. Grand Rounds, Department of Anesthesia, Stanford University, Stanford, California, November
33. Temperature regulation and perioperative tremor. Grand Rounds, Department of Anesthesia, University of Pennsylvania, Hershey, Pennsylvania, February **1989**
34. Thermoregulation during general and regional anesthesia. Grand Rounds, Department of Anesthesia, The Hospital for Special Surgery, New York, NY, May
35. Perioperative thermoregulation and tremor. Grand Rounds, Department of Anesthesia, University of California, Davis, California, May
36. Tremor during epidural anesthesia, Zentraleuropäischer Anästhesiekongress, Innsbruck, Austria, September
37. Perianesthetic thermal regulation, Management of perianesthetic shivering and tremor. American Society of Anesthesiologists Regional Refresher Course, Washington, D.C., March **1990**
38. Perianesthetic tremor. Grand Rounds, Department of Anesthesia, University of Texas Medical School, Dallas, April
39. Thermoregulation during surgery, Tremor during epidural anesthesia. Grand Rounds, Department of Anesthesia, Mayo Clinic, Rochester, Minnesota, May
40. Maintaining perioperative normothermia. Grand Rounds, University of Minnesota, Minneapolis, May
41. Perianesthetic Thermoregulation, Maintaining intraoperative normothermia. Panel Discussion, American Society of Anesthesiologists, Las Vegas, October
42. Hypothermia: Prevention and intraoperative management. Anesthetic Considerations for the Trauma Patient, Hahnemann University Conference, Orlando, November
43. Anesthetic-induced inhibition of thermoregulation. Grand Rounds, Pontificia Universidad Católica, Santiago, Chile, December
44. Anesthesia and circadian rhythms. Grand Rounds, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, February **1991**
45. Thermoregulation and heat balance during general anesthesia. Department of Anesthesiology, University of California, San Diego, April
46. Thermoregulation and shivering during epidural and general anesthesia. Grand Rounds, Department of Anesthesia and Critical Care, University of Chicago, Chicago, May
47. Circadian rhythms and isoflurane anesthesia. Grand Rounds, University of Minnesota, Minneapolis, May
48. Thermoregulation during anesthesia. Department of Anesthesiology, Kings College School of Medicine, London, England May
49. Perioperative hypothermia. American Association of Nurse Anesthetists Annual Meeting, Nashville, August
50. Anesthesia and temperature regulation, Shivering after anesthesia. Grand Rounds, Department of Anesthesia, Duke University Medical School, Durham, August
51. Perianesthetic temperature regulation. Plenary Lecture. Eighth International Symposium on the Pharmacology of Thermoregulation, Kananaskis, Canada, August
52. Perianesthetic thermoregulation, Maintaining intraoperative normothermia. Panel Discussion, American Society of Anesthesiologists, Las Vegas, October

53. Temperature regulation and anesthesia. American Society of Anesthesiologists Refresher Course, Annual Meeting, San Francisco, October
54. Shivering and epidural anesthesia. Grand Rounds, Pontificia Universidad Católica, Santiago, Chile, December

55. Heat balance during surgery, Shivering after surgery. Anesthesia Update, University of California, San Diego, January 1992
56. Perianesthetic regulation of temperature and heat balance. Grand Rounds, Catherina University Hospital, Eindhoven, Netherlands, January
57. Postoperative hypothermia: Implications, prevention, and treatment. 7th International Conference, Katholieke Universiteit Leuven, Belgium, January
58. La redistribution de chaleur entre les parties profondes et les parties superficielles. Grand Rounds, Saint Antoine University Hospital, Paris, France, January
59. Thermoregulation during anesthesia. Grand Rounds, Oak Knolls Naval Hospital, Oakland, February
60. Perianesthetic thermoregulation and heat balance, Shivering during anesthesia. Grand Rounds. University of Manitoba, Winnipeg, Canada, March
61. Thermoregulation during epidural anesthesia. Grand Rounds Brigham and Women's Hospital, Boston, April
62. Perianesthetic Thermoregulation, Maintaining Normothermia. 41st Annual Postgraduate Symposium on Anesthesiology, Kansas City, MO, April
63. Heat balance and temperature regulation. University of Gent, Belgium, April
64. Thermoregulation, heat balance, and treatment of hypothermia. Special Lecture University of Vienna, Austria, April
65. Regulatory responses to hypothermia, Shivering and tremor during anesthesia. Grand Rounds, Northwestern University, Chicago, May
66. Sweating and active vasodilation during isoflurane anesthesia. Grand Rounds, University of Chicago, Chicago, May
67. My patient is cold: How did she get there and what can I do? Postanesthesia Care Meeting, Chicago, May
68. Recent advances in Intraoperative Shivering, Grand Rounds, Department of Anesthesiology, New York University, New York City, May
69. Shivering and anesthesia. Grand Rounds, Oak Knolls Naval Hospital, Oakland, May
70. Thermoregulation during general and epidural anesthesia. Grand Rounds University of Austria, Graz, Austria, June
71. Temperature regulation and the effects of anesthesia, Symposium, World Congress of Anaesthesiologists, The Hague, The Netherlands, June
72. Anesthetic effects on temperature regulation. Grand Rounds, Department of Research, Emanuel Hospital & Health Center, Portland, OR, September
73. Thermoregulation and tremor during anesthesia. Grand Rounds, Department of Anaesthesia, The Royal Victorian Hospital, Montreal, Canada, October
74. Temperature regulation and anesthesia. American Society of Anesthesiologists Refresher Course, Annual Meeting, New Orleans, October

75. La Thermorégulation en anesthésie, L'isolation et le réchauffement cutané: aspects théorique. XXV Reunion Internationale d'Anesthesiologie et de Reanimation. Paris, France March 1993
76. Mechanisms of thermoregulatory impairment during regional anesthesia. Department of Anesthesiology, University of Washington, Seattle, April

77. Thermoregulation during anesthesia, Skin surface isolation and warming: clinical aspects. Special lecture, 12 De Octoubre Hospital, Madrid, Spain June
78. Thermoregulation and Heat Balance: Regional Anesthesia, Grand Rounds University of Vienna, Austria, June
79. Thermoregulation and heat balance in the perioperative period. Special Lecture, Scandinavian Society of Anaesthesiologists, Kuopio, Finland, June
80. Thermoregulation and heat balance: General Anesthesia. Special Lecture, Department of Anesthesia, Johns Hopkins University, Baltimore, August
81. Temperature regulation and anesthesia. American Society of Anesthesiologists Refresher Course, Annual Meeting, Washington DC, October

82. Perioperative Thermoregulation and heat balance. Grand Rounds, Department of Anesthesia, Karolinska Institute, Stockholm, Sweden, March 1994
83. Perioperative heat balance and thermoregulation, Grand Rounds, Department of Pediatrics, University of Finland, Turku, Finland, March
84. Heat loss and hypothermia during surgery and anesthesia. Hypothermia Symposium Institute for Anesthesiology, Academic Hospital Utrecht. The Netherlands, March
85. Consequences of intraoperative hypothermia. Grand Rounds, Department of Anesthesia University of Vienna, Austria, March
86. Perianesthetic thermal disturbances: Regulation during general anesthesia, Heat balance and regulation during regional anesthesia, Malignant hyperthermia update. Assembly of the Los Angeles County Society of Anesthesiologists, April
87. Thermoregulation during regional anesthesia; Perioperative hypothermia and surgical wound infections. Grand Rounds. University of Manitoba, Winnipeg, Canada, March
88. Perioperative hypothermia and wound healing, Grand Rounds, University of Minnesota, Minneapolis, April
89. Perioperative thermoregulation during general anesthesia and regional anesthesia. Minnesota Society of Anesthesia. Minneapolis, April
90. Perianesthetic thermoregulation and heat balance. Hypothermia Symposium. Vienna, May
91. Clinical trial design. Special Symposium, Amstetten Hospital, Amstetten, Austria, May
92. Thermoregulation during surgery. Special lecture. St George's Hospital, London, England, May
93. Thermoregulation and heat balance in critical care patients. Critical Care Congress, Johannesburg, South Africa, May
94. Malignant Hyperthermia. Anesthesia Rounds. Johannesburg Hospital, South Africa, May
95. Anaesthesia and body temperature control. Anaesthesia Department Academic Meeting Groote Schuur Hospital, Cape Town, South Africa, June
96. Management of intraoperative hypothermia. Postgraduate Surgical Meeting. HF Verwoerd Hospital, Pretoria, South Africa, June
97. Perianesthetic thermoregulation and heat balance: General Anesthesia. Plenary lecture. International Symposium, Pharmacology of Thermoregulation. Giessen, Germany, August
98. Thermoregulation: Facts and fiction. International Symposium. University of Vienna, Austria, September
99. Prevention of perioperative hypothermia — Active warming. 8th International Sytler Woche der Anaesthesia, Syt, Germany, September
100. Thermal disturbances during epidural and spinal anesthesia. Grand Rounds. University of California, Irvine, September
101. Normal and anesthetic-impaired thermoregulation. Special Lecture. Orange County Anesthesia Society, Irvine, September

102. Thermoregulation and heat balance in critical care patients. Special Lecture
Turkish Society of Intensive Care, Istanbul, Turkey, October
103. Thermoregulation in the surgical patient, Special Lecture
9th European Congress of Anaesthesiology, Jerusalem, Israel, October
104. Temperature and the traumatized patient. Panel Discussion, American Society of
Anesthesiologists, San Francisco, October
105. Temperature control and aberrations in the perioperative period. Moderator, Panel
Discussion, American Society of Anesthesiologists, San Francisco, October
106. Thermoregulation and heat balance: General and regional anesthesia, Malignant
hyperthermia, Is your patient asleep? — Memory and anesthesia. California
Society of Anesthesiologists. Kaanapali Beach, Hawaii, October
107. Regional anesthesia and thermoregulation. Grand Rounds, Pontificia Universidad
Católica, Santiago, Chile, November
108. Patient warming devices. Panel Discussion, New York Postgraduate Assembly
New York City, December
109. Thermoregulation and the flow and distribution of body heat. Grand Rounds. 1995
Washington University School of Medicine, St. Louis, April
110. Hypothermia during and after anesthesia: Consequences and treatment.
Special Lecture, Society of Postanesthesia Nursing, Atlanta, April
111. Prevention and treatment of perioperative hypothermia, Grand Rounds,
College of Physicians and Surgeons, Columbia University, New York City, April
112. Perioperative heat balance and thermoregulation. Invited lecture.
Japan Society of Anesthesia, Tokyo, Japan, April
113. Heat balance during and after surgery, Grand Rounds, Yamanashi Medical School, April
114. Maintenance of normothermia in the perioperative period. Grand Rounds. Texas
Tech University Health Sciences Center, Lubbock, Texas, May
115. La Thermorégulation en anesthésie. Grand Rounds, University of
Lauzane, Switzerland, June
116. Perioperative thermoregulation: General anesthesia, Thermoregulation and heat balance
during regional anesthesia. Grand Rounds, University of Zurich, Switzerland, June
117. Thermoregulation during general anesthesia. Grand Rounds, University of Berne,
Switzerland, June
118. Intraoperative temperature control Refresher Course Lecture. 24th Central European
Congress on Anesthesiology (ZAK), Vienna, Austria, September
119. Complications of mild intraoperative hypothermia. Panel Discussion. 24th Central
European Congress on Anesthesiology (ZAK), Vienna, Austria, September
120. Perioperative Temperature Regulation. American Society of Anesthesiologists
Refresher Course, Annual Meeting, Atlanta, GA, October
121. Thermoregulation and heat balance. Combined Surgical and Anesthetic Grand Rounds,
Armed Services' Hospital, Santiago, Chile, October
122. Thermoregulation and heat balance during regional and general anesthesia. Grand Rounds,
Medical College of Wisconsin, Madison, November
123. Temperature regulation and anesthesia. Grand Rounds, UCLA, Los Angeles, December
124. Perioperative thermoregulation: Clinical update. Los Angeles County Anesthesia
Society Meeting. Los Angeles, December
125. Hazards of postoperative waste anesthetic gas exposure. American Society of 1996
Postanesthetic Nurses Symposium. Lubbock, January

126. Complications of perioperative hypothermia. 12 de Octubre Hospital
Special Lecture, Madrid, Spain, May
127. Perioperative temperature monitoring: regional and general anesthesia. Grand Rounds.
Henry Ford Hospital, Detroit, June
128. Thermoregulation and anesthesia. International Symposium on the Pharmacology
of Thermoregulation. Plenary Lecture. Memphis, August
129. Thermoregulation during and after anesthesia. Grand Rounds,
Danube Hospital, Vienna, Austria, September
130. Malignant hyperthermia, Wiener Kongreß: Anaesthesiologie & Intensivmedizin,
Vienna, Austria, October
131. Anesthesia training in the United States. Grand Rounds. Department of Anesthesia
and Intensive Care, University of Vienna, Vienna, Austria, November

132. Perioperative air Safety, Grand Rounds, Krankenhaus Lainz, **1997**
Vienna, Austria, January
133. Perioperative air safety, Grand Rounds, University of Vienna, March
134. Air safety in the postanesthesia care unit. Symposium. Annual Meeting of the
American Society of Postanesthesia Nurses, Denver, March
135. Thermal monitoring and management technology, Grand Rounds, Massachusetts
General Hospital, Harvard University, Boston, April
136. Air safety in the post anesthesia care unit, Special Lecture
Danube Hospital, Vienna, Austria, April
137. Complications of perioperative thermal perturbations, Grand Rounds
Johns Hopkins University, Baltimore, May
138. Thermoregulation, Plenary Lecture, SIAARTI Congress, Turin, Italy, October
139. Air safety in the post-anesthesia care unit, Wiener Kongreß: Anaesthesiologie &
Intensivmedizin, Vienna, Austria, October
140. Perioperative thermal issues. Grand Rounds, University Hospital Eppendorf
Hamburg, Germany, October
141. Temperature monitoring and management. Refresher Course. Annual meeting of
the Swiss Society of Anesthesiology. Montreux, Switzerland, November
142. Thermoregulation and heat balance, Malignant Hyperthermia. Grand Rounds,
Emory University, Atlanta, December
143. Hypothermia and prolonged hospitalization, Panel Discussion, New York
Postgraduate Assembly, New York City, December
144. Perioperative thermal issues, Grand Rounds, Department of Head and Neck Surgery,
University of California, San Francisco, December

145. Temperature monitoring, Special Lecture, 18th International Symposium **1998**
on Computing in Anesthesia and Intensive Care, Hamamatsu, Japan, March
146. Thermoregulation, heat balance, and perioperative outcomes. Grand Rounds
Tokyo Women's Hospital, Tokyo, Japan, March
147. Thermoregulation. Special Lecture. Annual Meeting of the Japanese Society
of Anesthesia. Kogoshima, Japan, April
148. Perioperative thermoregulation, Anaesthesiologisches Kolloquium. University of
Regensburg, Regensburg, Germany, June
149. Complications and treatment of hypothermia. Special Lecture. Traumstein Hospital
Traumstein, Germany, June
150. Perioperative hypothermia — clinical implications, Controlling Perioperative
Pathophysiology and Outcome Symposium. Ontario, Canada, July

151. Pre-hospital warming of accidental hypothermia victims. Catastrophe Medicine Conference, Tübingen, Germany, September
152. Physiology of thermoregulatory. Therapeutic Hypothermia Symposium Jena, Germany, September
153. Infectious complications of mild hypothermia. Sepsis and Multi-Organ Dysfunction Symposium. Friedrich-Schiller-Universitaet, Jena, Germany, September
154. Perioperative thermoregulation. Grand Rounds. University of Alabama. Birmingham, November
155. Consequences and treatment of perioperative hypothermia. Special Lecture MEDICA Symposium, Dusseldorf, Germany, November
156. Fever. New York State Society of Anesthesiologists. Annual Meeting. New York City, December
157. Thermoregulatory responses and heat balance. Grand Rounds. New York Methodist Hospital. New York City, December
158. Mechanisms of perioperative thermal disturbances. Grand Rounds. University of Pennsylvania Philadelphia, December

159. Thermoregulation and heat balance: Clinical correlates. Anesthesia and Surgical Grand Rounds. Mt. Sinai and Cornell University Hospitals, New York City, February **1999**
160. Local heating and wound healing, Symposium on Thermoregulation and Wound Care St. Anne's and Green Colleges, Oxford University, Oxford, February
161. Thermal management during surgery. Grand Rounds. Department of Anesthesia, Pacific Presbyterian Medical Center, San Francisco, February
162. Effects of age on perioperative thermoregulatory. Plenary lecture. International Symposium on the Pharmacology of Thermoregulation. Sevilla, Spain, May
163. Cost implications of perioperative thermal management. Special lecture. Royal College of Surgeons. London, Great Britain, May
164. Perioperative thermoregulation and heat balance, Fever. Malignant Hyperthermia Plenary session, South African Society of Anesthesia, Sun City, South Africa, June
165. Temperature regulation in surgical patients. Special lecture. Department of Anaesthetics, University of Natal, Durban, South Africa, June
166. Temperature regulation in surgical patients. Special lecture. Cape Town, South Africa, June
167. Thermoregulation during and after surgery. Plenary lecture. Annual Meeting of the Swedish Anesthesia Society. Gothenburg, Sweden, August
168. Consequences and treatment of perioperative hypothermia. Plenary Lecture. Royal College of Surgeons. London, Great Britain, November
169. Consequences and treatment of perioperative hypothermia. Special Lecture MEDICA Symposium, Dusseldorf, Germany, November

170. Oxygen — an overlooked drug, Thermoregulation and heat balance Grand Rounds, Jefferson Department of Anesthesia, Jefferson University, February **2000**
171. Temperature and heat balance during surgery. International Symposium on Anesthesia Hospital Sirio Lebanes, Sao Paolo, Brasil, March
172. **OUTCOMES RESEARCH**, a model for international collaboration. Annual meeting of the Society for Gynecological Investigation. Chicago, March
173. Supplemental oxygen improves outcome. MASTER Trial Symposium, Melbourne, Australia, May
174. Perioperative thermoregulation. Hobart, Tasmania, Australia, May
175. Thermoregulation and heat, perioperative oxygen. Launceston, Tasmania, May
176. Perioperative oxygen supplementation. 2000 Annual Meeting of the Italian Anesthesia Society, Milan, Italy, May

177. Accidental hypothermia. Plenary lecture, The 9th International Conference on Environmental Ergonomics. Dortmund, Germany, August
178. Perioperative hypothermia; Accidental hypothermia. Thermoregulation symposium Bad Oeynhausen, Germany, August
179. **OUTCOMES RESEARCH.** Clinical Research in Academic Medical Centers Symposium. Lake Forest, August
180. Perioperative Hypothermia. Special Lecture. Siriraj Hospital, Bangkok, Thailand, September
181. Temperature regulation during and after surgery. Grand Rounds, Ramathibodi Hospital, Bangkok, Thailand, September
182. Thermoregulation during general and regional anesthesia. Consequences and treatment of perioperative hypothermia. Temperature Management Symposium. Maylasian Society of Anesthesia. Kuala Lumpur, Maylasia, September
183. Perioperative thermoregulation and heat balance, Supplemental perioperative oxygen. Annual Continuing Medical Education Meeting, University of Chicago, Chicago, December

184. Supplemental perioperative oxygen. Department of Surgery, University of Louisville, Grand Rounds, February **2001**
185. Perioperative thermoregulation and heat balance. Florida Society of Anesthesia Symposium. Tampa, March
186. Supplemental perioperative oxygen. Grand Rounds. Department of Anesthesiology, University of South Florida, Tampa, March
187. Perioperative thermoregulation and heat balance. Kentucky Society of Anesthesia Louisville, March
188. Thermoregulation during and after surgery. Grand Rounds, Department of Anesthesiology, Department of Anesthesiology, University of Miami, May
189. Oxygen and wound infections. Trauma Surgery Symposium, University of Miami, May
190. Clinical Research: the U of L perspective. Norton Hospital Research Symposium, Louisville, August
191. Temperature regulation and modulation. Invited lecture. Neurocritical Care 2001: returning from the dark side of the brain. Cleveland, September

192. Prevention of surgical wound infections with normothermia and supplemental oxygen. Invited lecture. Centers for Medicare & Medicaid Services (CMS) Collaborative Experience Project: Surgical Infection Prevention. Baltimore, March **2002**
193. New strategies in perioperative thermal management. Invited lecture. Annual meeting of the Indian Society of Anaesthesiologists. New Delhi, India, April
194. Perioperative heat balance. Invited lecture. Army Hospital, New Delhi, India, April
195. Heat transfer and thermoregulatory defenses during anesthesia and surgery, Taiwan Society of Anaesthesia, Taoyuan, Taiwan, April
196. Supplemental perioperative oxygen. Special lecture, University of Berne, Switzerland, May
197. Temperature regulation during surgery. Fever, Hyperpyrexia, and Thermogenesis Conference Wenner-Gren Institute, Stockholm, June
198. Perioperative thermoregulation and supplemental oxygen. Department of Pharmacology, University of Louisville, August
199. Prevention of surgical wound infections with normothermia and supplemental oxygen. Invited lecture. Alabama Quality Assurance Foundation. Birmingham, September
200. Perioperative fever. Panel discussion. New York Postgraduate Assembly, NYC, December

201. Thermoregulation and the consequences of perioperative hypothermia. Grand Rounds Department of Orthopedics, University of Louisville, Louisville, KY. January **2003**
202. Challenges in clinical testing. Invited speaker. Institute for Molecular Diversity and Drug Design seminar. University of Louisville, Louisville, KY, March
203. Nonpharmacologic prevention and treatment of surgical wound infections. Surgical Infection Prevention Collaborative Northwest, Portland, OR, March
204. Temperature control in surgical patients. Invited lecture, Department of Anesthesiology & Perioperative Medicine. Oregon Health & Sciences University, Portland, OR, March
205. Prevention of surgical wound infection. VHA teleconference (to ~30 hospitals), May
206. Outcomes after Anaesthesia. College of Anaesthetists RCSI. Plenary lecture Clontarf, Ireland, May
207. Oxygen as an antibiotic and antiemetic. European Society of Anesthesiologists, Invited lecture. Glasgow, Scotland, May
208. Thermoregulation and the consequences of perioperative hypothermia. Grand Rounds Department of Anesthesiology, Portland Medical Center, Portland, ME, July
209. Nonpharmacologic surgical wound infection prevention. Surgical Wound Infection Collaborative, MetaStar teleconference, August
210. Body temperature and surgical wound infections. Supplemental oxygen. Invited lectures VHA Surgical Infection Task Force, Chicago, IL, September
211. Thermoregulation and the consequences of inadvertent hypothermia. Grand Rounds Department Surgery and Trauma, St. Joseph's Hospital, Phoenix, AZ, September
212. Practical aspects of temperature management in the anesthetized patients. Does Temperature affect outcome? Invited lectures. Wake Forest University Symposium, Sea Island, GA, November
213. Graphical presentation of research results. Research!Louisville. Louisville Medical Center, November.
214. Perioperative thermoregulation and heat balance, Supplemental perioperative oxygen. Annual Continuing Medical Education Meeting, University of Chicago, St. Johns, January **2004**
215. Body temperature and surgical wound infections. Supplemental oxygen. Invited lectures VHA Surgical Infection Task Force, Dayton, OH, January
216. Clinical Research. Lecture to M.D./Ph.D. students at the University of Louisville Medical School, February
217. The **OUTCOMES RESEARCH** Institute, Life Sciences Without Boundaries Conferences. Invited lecture. Louisville, KY, March
218. Oxygen and infection. WVMC Infection Control. Teleconference. March
219. Supplemental perioperative oxygen. Kentucky Society of Anesthesiology. Invited lecture. Louisville, KY, March
220. Temperature regulation and supplemental oxygen. Health Care Excel (Kentucky and Indiana CMS QOI organization). Invited teleconference. April
221. Perioperative thermoregulation, Supplemental perioperative oxygen, and Evaluating adequacy of anesthesia. Invited lectures. SMART (critical care) Conference. Milan, Italy, May
222. Graphical presentation of quantitative data. Special lecture. Department of Anesthesia, Inselspital, University of Bern. July
223. Perioperative thermoregulation. Grand Rounds, Department of Anesthesiology, University of Texas at Houston, Houston. August
224. Surgical wound infections. Wound Care Symposium. Jewish Hospital, Louisville. September
225. Temperature-related perioperative outcomes. Plenary lecture, Postgraduate Assembly, New York. December

226. Temperature regulation. Grand Rounds, University of Cincinnati, Cincinnati, March **2005**
227. Perioperative thermoregulation; Recall of intraoperative events — can it be prevented by monitoring processed EEG? Plenary lectures, Israeli Society of Anesthesiologists, Tel Aviv, September
228. Non-pharmacologic prevention of surgical wound infection, Malignant hyperthermia, Depth of anesthesia. Wolfson Medical Center, Tel Aviv, September
229. Perioperative Thermoregulation. Guest Lecture. University of Lausanne, Lausanne Switzerland. October
230. Nonpharmacologic prevention of surgical wound infection. Grand Rounds,. Department of Infectious Disease, Cleveland Clinic, January **2006**
231. Body temperature and perioperative outcomes. Plenary lecture, Second International Meeting on Physiology and Pharmacology of Temperature Regulation. Phoenix, March
232. Prevention of surgical wound infection. Grand Rounds, Massachusetts General Hospital, Harvard, Cambridge, September
233. Strategies for reducing the risk of wound infection. Grand Rounds, Mount Sinai University, New York, September
234. Perioperative thermoregulation and heat balance. Frontiers in Research lecture. Case University Cleveland, November
235. Perioperative thermoregulation, Surgical wound infection. Grand Rounds. University of New Mexico, Albuquerque, November
236. Temperature monitoring and management. Panel Discussion. New York Postgraduate Assembly New York, December
237. Non-pharmacologic prevent of surgical wound infection. Grand Rounds. Columbia University. New York, December
238. Infection control. Grand Rounds. Brigham and Women's Hospital, Harvard, Cambridge, December
239. Malignant hyperthermia. Comprehensive Board Review. Cleveland, March **2007**
240. Thermoregulation and Anaesthesia. Prevention of surgical wound infection. Association of Anaesthetists of Quebec. Quebec City, Canada, March
241. Thermoregulation and perioperative thermal management, Surgical wound infections. University of Kansas Review Course. Kansas City, Kansas. April
242. Perioperative thermoregulation. Surgical Care Improvement Project. Cleveland (web seminar), April
243. Surgical wound infection prevention strategies, Perioperative heat balance and thermal management, Long-term outcomes of anesthesia. Spanish Society of Anesthesia Meeting. Valencia, Spain, April
244. Prevention of surgical wound infections. Debate on the use of oxygen vs. nitrous oxide. ANZCA Annual Meeting, Melbourne, Australia. May
245. Defeating thermoregulatory defenses, Temperature monitoring. International Symposium on Preserving the Brain in Neurological Emergencies. Rome, Italy, June
246. Heat balance and temperature monitoring, Perioperative thermoregulation. Wayne State University, Harper University Hospital, Detroit, August
247. Long-term perioperative outcomes. Grand Rounds. University of New Mexico, Albuquerque, November
248. Perioperative thermoregulation. Refresher Course, American Society of Anesthesiologists Annual meeting, San Francisco, October

249. Preventing surgical wound infections. Panel lecture and chair, American Society of Anesthesiologists Annual meeting, San Francisco, October
250. Regional analgesia and cancer recurrence. Grand rounds. Heinrich-Heine University of Düsseldorf, November
251. Physiology and anesthetic consequences of hypothermia. Indiana Society of Anesthesiologists Annual Meeting, Indianapolis, February **2008**
252. Malignant hyperthermia, Perioperative thermoregulation, Regional analgesia and cancer recurrence Grand rounds and resident lecture. Charlottesville, February
253. Cleveland Clinic Learner College of Medicine Dean's Dinner Lecture. Thermoregulatory and other perioperative outcomes. Cleveland, April
254. Thermoregulation, Malignant hyperthermia. Comprehensive Anesthesia Update. Cleveland, April
255. Anesthetic outcomes. Tokyo Women's Hospital, June
256. Thermoregulation and heat balance. Jikei University, Tokyo, June
257. Long-term anesthetic outcomes, Preventing surgical wound infection. Japan Society of Anesthesia Tokyo, June
258. Perioperative thermal management and outcomes. Ohio Society of Anesthesia annual meeting Cleveland, September
259. Long-term consequences of anesthesia, Anesthetic interventions to reduce the risk of surgical wound infections, Israeli Society of Anesthesiology. Tel Aviv, Israel, September
260. Outcomes research. Department of Psychiatry, The Cleveland Clinic, October
261. How to evaluate outcomes research. Refresher Course. American Society of Anesthesiologists Annual Meeting, Orlando, October
262. Malignant hyperthermia. Perioperative temperature regulation. Survey of Current Issues in Surgical Anesthesia Symposium, Dayton Beach, November
263. Understanding outcomes research. Regional Anesthesiology Practice Quality Council. Beachwood, December
264. Long-term consequences of anesthesia. Panel discussion, New York Postgraduate Assembly. New York City, December
265. Long-term effects of anesthesia. Grand Rounds. St. Vincent's Hospital. New York City, December
266. Long-term perioperative outcomes. Joint Medicine, Surgery, and Anesthesia Grand Rounds McMaster University, Hamilton, Ontario, Canada, February **2009**
267. Long-term perioperative outcomes. Invited presentation. Agency for Healthcare Research and Quality. Washington DC, March
268. Nonpharmacological prevention of surgical wound infection. Joint Commission on Hospital Accreditation. Chicago, May
269. Clinical research methodology. Research Day, Fairview Hospital, Cleveland, May
270. Outcomes in anesthesia: Is there a role for processed EEG monitoring? International Society for Anesthetic Pharmacology. New Orleans, October
271. Triple Low: an ominous predictor. Anesthesia Patient Safety Foundation. New Orleans, October
272. Temperature monitoring: consequences and prevention of mild perioperative hypothermia. American Society of Anesthesiologists refresher course. New Orleans, October
273. Triple Low; an ominous predictor of mortality. Grand Rounds. Brigham and Women's Hospital, Harvard University. Boston, November
274. Temperature management, Long-term outcomes. O Norte Da Anesthesia meeting, Invited speaker. Porto, Portugal, November
275. The anesthesiologists effect on long-term outcome. Panel discussion. New York Postgraduate Assembly. New York, December

276. "Triple Low" and anesthetic mortality. Grand Rounds. St. Vincent's Hospital. New York City, December
277. Anesthetic interventions to improve long-term perioperative outcomes. Grand Rounds 2010
University of Miami, March
278. Long-term consequences of anesthesia. Perioperative Medicine Summit, Miami, March
279. Relevance of perioperative hemodynamics. Plenary lecture, CANNeCTIN Cutting-edge Symposium on Perioperative Medicine, Hamilton, Ontario, April
280. Prevention of surgical wound infections. What's hot in thermal management, Long-term outcomes. ANZCA Annual Meeting, Christchurch, New Zealand. May
281. The association of BIS, MAC, and MAP combinations on postoperative mortality. Information Technology Grand Rounds, Cleveland Clinic
282. Perioperative thermoregulation. Keynote lecture. Irish Congress of Anaesthesia, Dublin, Ireland, May
283. Triple Lows of MAC, MAP, and BIS predict postoperative morbidity and mortality. *Anesthesiology* Journal Symposium on long-term perioperative outcomes at the Japan Society of Anesthesiology annual meeting. Fukuoka, Japan. June
284. Thermoregulation and heat balance, Long-term perioperative outcomes. Plenary lecture. Chilean Society of Anesthesia Annual Meeting. Puerto Varas, Chile, October
285. Perioperative outcomes, Thermoregulation. Florida Society of Anesthesia. Palm Beach, June
286. Long-term outcomes. *Anesthesiology* Journal Symposium keynote talk at the American Society of Anesthesiologists annual meeting. San Diego, October
287. Thermoregulation and heat balance. Refresher course lecture. American Society of Anesthesiologists annual meeting. San Diego, October
288. Long-term outcomes, Perioperative thermoregulation. Annual meeting of the Mexican Anesthesia Federation. Monterrey, Mexico, November
289. Long-term outcomes. Grand Rounds. New York University, New York, December
290. Long-term outcomes. Grand Rounds, University of New Mexico 2011
Albuquerque, January
291. Long-term outcomes. Grand Rounds, Fairview Hospital, Cleveland, May
292. Surgical site infection, ICU Grand Rounds, Veterans' Administration Hospital, Cleveland, January
293. Perioperative thermoregulation and surgical site infection. Grand Rounds, Palmetto Health Baptist Hospital, Columbia, South Carolina, February
294. Induction of therapeutic hypothermia; defeating thermoregulatory defenses. Therapeutic Hypothermia and Temperature Management Symposium. Miami, February
295. Perioperative thermoregulation. Grand Rounds. Montefiore Hospital, Albert Einstein College of Medicine, New York, May
296. Thermoregulation and heat balance, Consequences of hypothermia and maintain perioperative normothermia, Long-term perioperative outcomes. Invited lectures. Colombian Society of Anesthesia. Medellin, Colombia, March
297. Thermoregulation and heat balance. CAN-AM Clinical Anesthesia Conference. Niagra Falls, May
298. Long-term outcomes, Anesthesia Grand Rounds. Maine Medical Center, Portland, June
299. Therapeutic Hypothermia. Critical Care Grand Rounds. Maine Medical Center, Portland, June
300. Perioperative Thermoregulation. Grand Rounds, Department of Anesthesiology, University of Wisconsin, Madison, June
301. Perioperative Thermoregulation. Evidence-based Perioperative Medicine (EBPOM), London, July
302. Long-term outcomes. Plenary lecture; Perioperative thermoregulation. Israeli Society of Anesthesia, Tel Aviv, September

303. Perioperative thermoregulation, Long-term perioperative outcomes. Grand Rounds. University of Vermont, Burlington, October
304. Anesthetic choice and cancer recurrence. Journal Symposium keynote talk. Perioperative thermoregulation; meeting the SCIP and PQRI challenge. Refresher course lecture. American Society of Anesthesiologists annual meeting. Chicago, October
305. Long-term perioperative outcomes. Plenary Lecture, Puerto Rican Society of Anesthesiology Annual Meeting, San Juan
306. Solving a clinical problem: the thermoregulation story. Rovenstine Lecture. Registry research and long-term outcomes. Panel discussion (lecture and chair), Postgraduate Assembly, New York, December

307. Panel discussion: The role of specialist societies in clinical outcomes research: International **2012**
Anesthesia Research Society Annual Meeting, Boston, May
308. Therapeutic hypothermia: defeating thermoregulatory defenses. Iquast Webinar, May
309. Temperature monitoring and management. Special Symposium. European Society of Anaesthesiologists, Paris, June
310. Long-term perioperative outcomes. Grand Rounds. Hopital Foch, Paris, June
311. Malignant hyperthermia, resident lecture. Long-term outcomes, Grand Rounds. Medical College of South Carolina, Charleston, South Carolina, November
312. Perioperative Thermoregulation: Meeting the SCIP and PQRI Challenge, Refresher Course
American Society of Anesthesiologists Annual Meeting, Washington DC, October
313. Are Cancer Outcomes Impacted by the Choice of Anesthetic Technique in the Outpatient?
Point-counter-point. American Society of Anesthesiologists Annual Meeting, Washington DC, October
314. Long-term outcomes. Perioperative thermoregulation. Malignant hyperthermia. Wake Forest. Greenbrier, North Carolina, October

315. Long-term outcomes. Grand Rounds. Department of Anesthesia, Ohio State University, **2013**
Columbus, February
316. Malignant hyperthermia. Grand Rounds, Palmetto Health Baptist Hospital, Columbia, South Carolina, March
317. Perioperative thermoregulation. Comprehensive Anesthesia Review, Cleveland Clinic, Cleveland, April
318. Perioperative thermoregulation, Malignant hyperthermia, Long-term perioperative outcomes. Harvard Anesthesia Update. Boston, May
319. Novel biomarkers for lung cancer, British Journal of Anaesthesia Symposium on anesthesia and oncology, Dublin, May
320. Infusion warming systems. European Society of Anesthesia. Barcelona, June
321. Long-term perioperative outcomes. Grand Rounds, Northwestern University Dept of Anesthesia, Chicago, August
322. Long-term perioperative outcomes, Thermoregulation. Keynote lecture, Association of Anaesthesiologists of Great Britain & Ireland. Annual Meeting. Dublin, September
323. Regional analgesia and cancer outcomes, How large databases can improve outcomes. Annual Meeting of the American Society of Anesthesiologists, San Francisco, October

324. Big Data and uses of registry data. Winterlude Symposium, University of Ottawa, February **2014**
325. Perioperative thermoregulation, Long-term perioperative outcomes. Resident lecture and grand rounds. University of California, Los Angeles, March
326. Perioperative thermoregulation. Tygerberg Hospital, Cape Town, March
327. Long-term perioperative outcomes. Grote Schure Hospital, Cape Town, March
328. Long-term outcomes, Perioperative thermoregulation, Universitas Academic Hospital, Bloemfontein, March

329. Long-term perioperative outcomes. Inkosi Albert Luthuli Central Hospital, Durbin, March
330. Perioperative thermoregulation, Clinical research methodology, Anesthetic contributions to surgical site infection, Long-term perioperative outcomes, Review of meta-analysis, Malignant hyperthermia. South African Society of Anesthesiology. South African Society of Anaesthesia Visitor; opening plenary lecture, and others. Sun City, March
331. Clinical trials of drugs and devices for adult procedural sedation: research design, enrollment criteria, and other critical issues. SCEPTOR (FDA) Symposium on Procedural Sedation. Washington DC, April
332. The thermoregulation story. Montana State University Graduate Student Summit. Bozeman, April
333. Depth of anesthesia and outcome, What perioperative outcome data should we monitor, Research in electronic databases, Perioperative cardiac protection. European Society of Anaesthesia, Annual Meeting. Stockholm, June
334. Long-term perioperative outcomes. Visiting professor. Oregon Health and Sciences University. Portland, August
335. Thermoregulation (keynote lecture), Defeating thermoregulatory defenses. International Hypothermia Symposium. Edinburgh, September
336. Therapeutic hypothermia, Long-term perioperative outcomes (keynote lecture). Israeli Society of Anesthesia, Tel Aviv, September
337. Advanced clinical trial methodology (keynote lecture). International Chinese Academy of Anesthesiology, New Orleans, October
338. POISE-2 (clonidine), SIRS, Special Panel on Major Trial Outcomes. American Society of Anesthesiologists, New Orleans, October
339. Long-term perioperative outcomes, Postoperative myocardial injury, Perioperative thermoregulation Sao Paulo State Society of Anesthesia, Ribeirao Preto, December
340. The thermoregulation story, Long-term perioperative outcomes, Collaborative research, Big data. **2015**
Tasmanian combine ANZCA/ASA Annual Scientific Meeting. Hobart, Tasmania, February
341. Myocardial injury after non-cardiac surgery. Grand Rounds, Digestive Disease Institute, Cleveland Clinic, March
342. Perioperative thermoregulation. Thermoregulation Symposium. Madrid, February
343. The thermoregulation story, Long-term outcomes, US perspective on collaborative research, Big data. Tasmanian Society of Anesthesia Annual Meeting, Hobart, February
344. Big Data, Research Symposium. Peking University Medical College Hospital, Beijing, March
345. MINS, Big data. Research Symposium. Beijing Anzen Hospital, Beijing, March
346. Big Data, Research Symposium. Shanghai Chest Hospital, Shanghai, March
347. Future of anesthesia. Quebec Society of Anesthesia 50th year meeting. Quebec, April
348. Myocardial injury after non-cardiac surgery. Grand Rounds. University of Michigan, Ann Arbor, April
349. Long-term perioperative outcomes. Michigan Surgical Quality Collaborative, Livonia, May
350. Regional analgesia and cancer recurrence. Refresher course lecture. American Society of Regional Anesthesia, Las Vegas, May
351. Perioperative myocardial injury. State-of-the-Art Lecture, International Society of Thrombosis and Hemostasis, Toronto, July
352. Perioperative myocardial infarction. Grand Rounds, Medicine Institute, Cleveland Clinic, August
353. Thermoregulation: fundamentals for therapeutic hypothermia and temperature management. Neurocritical Care Society webinar, September
354. Big data; panel on How Anesthesiologists can Minimize Mortality and Adverse outcomes. Myocardial injury after non-cardiac surgery; panel on Aiming for a more evidence-based approach to medical practice. Pro side of debate on Regional anesthesia/analgesia and oncological outcomes. Annual Meeting of the American Society of Anesthesiologists, San Diego, October.

355. Postoperative myocardial injury, Lown Foundation, Boston, May. **2016**
356. Myocardial injury after non-cardiac surgery; Malignant hyperthermia. Anesthesiology Update, Harvard Medical School, Boston, May.
357. Myocardial injury: the leading cause of postoperative death; Is monitoring depth of anaesthesia effective? European Society of Anesthesia, London, May
358. Perioperative myocardial injury (Grand rounds), Thermoregulation (resident lecture). Brigham and Women's Hospital, Harvard Medical School. Boston, June
359. Perioperative myocardial injury. Symposium on Recovery from Surgery. Wake Forest, Winston-Salem August
360. Perioperative myocardial injury. Chinese Society of Anesthesia. Guangzhou, August
361. Intraoperative hypotension. Panel moderator and speaker. American Society of Anesthesiologists Annual Meeting, Chicago, October
362. Perioperative thermoregulation, Lost in translation. Grand rounds. University of Texas at Galveston, Galveston, November
363. Designing clinical trials for major outcomes. SCEPTER II, Clinical trials to evaluate safety outcomes in procedural sedation. Washington DC, November
364. Perioperative thermoregulation, Turkish Society of Anesthesia. Keynote lecture. Istanbul, October
365. Perioperative thermoregulation. Grand rounds, Penn State Hershey, December
366. Perioperative myocardial injury; Oxygen and surgical site infection; Supplemental perioperative oxygen. Surgical Humidification Research Symposium. Auckland, December
367. Lost in translation. Grand Rounds. Auckland Hospital, December
368. Lost in translation. Grand rounds, Anesthesiology Institute, Cleveland Clinic **2017**
369. Lost in translation. Grand rounds, Department of Anesthesiology. Mayo Clinic Rochester, February
370. Lost in translation, Special lecture. Mercy Health System, Canton, March
371. Lost in translation. Grand rounds, Department of Anesthesiology. Pittsburgh University Medical Center. Pittsburgh, March
372. Cancer recurrence, the immune system, and nerve blocks. American Society of Regional Anesthesia. San Francisco, April
373. Myocardial injury: can it be prevented? American Society for Enhanced Recovery, Washington, April
374. Lost in translation. Keynote lecture. Perioperative myocardial infarction Irish Society of Anaesthesia. Dublin, May
375. Hypotension and perioperative myocardial outcomes, Intraoperative nociception monitoring. European Society of Anesthesia. Geneva, June
376. Supplemental oxygen and surgical site infection: an alternating intervention trial. 4th Collaborative on Clinical Trials in Anesthesia. Prato, Italy, June
377. Intraoperative hypotension, Evidence-based Perioperative Medicine, London, June
378. Lost in translation. Grand rounds, Department of Anesthesiology, Ohio State University, Columbus, June
379. Lost in translation, Orkin Lecture, Department of Anesthesiology, Montefiore Hospital, New York City, July
380. Lost in translation, Perioperative thermoregulation, Perioperative myocardial injury. Long-term Outcomes Symposium. University of Chile, Santiago, August
381. Perioperative hypotension. European Society Intensive Care Medicine. Vienna, September
382. Perioperative hypotension webinar. Paris, September
383. Perioperative myocardial injury, Postoperative respiratory depression, Perioperative hypotension, Surgical site infection. American Society of Anesthesiologists invited lectures, Boston, October
384. Myocardial injury, BIS debate. Israeli Society of Anesthesiologists invited lectures. Tel Aviv, November

385. Regional analgesia and cancer debate. European Society of Anesthesia Focus Meeting on Perioperative Medicine, invited lecture, Tel Aviv, November
386. Surgical site infection. New York Society of Anesthesiologists Postgraduate Assembly, invited lecture New York City, December
387. Perioperative myocardial injury, University of Miami, grand rounds. Miami, January 2018
388. Perioperative myocardial injury, Stanford University, grand rounds. Palo Alto, February
389. Intraoperative hypotension. American Society for Enhanced Recovery Annual Meeting, invited lecture. Miami, March
390. Lost in translation, Lawrence lecture; Perioperative myocardial injury, grand rounds. University of Rochester, May
391. Management of anesthetic depth, Myocardial injury and anesthesia, Supplemental oxygen and surgical site infection, Lost in translation (closing plenary lecture). Association of Anaesthetists of Australia and New Zealand Annual Meeting, Sydney, May
392. Lost in translation. O&G: Across the Spectrum and Beyond, Auckland, May
393. Postoperative ventilation, Perioperative myocardial injury. European Society of Anesthesia Copenhagen, June
394. Cardiac complications in patients having major non-cardiac surgery. Rigshospitalet, University of Copenhagen, Copenhagen, June
395. Perioperative myocardial injury. St. Luke's International Hospital, grand rounds. Tokyo, June
396. Myocardial injury, Refresher course; Consequences of hypotension, Panel presentation; Triple Low, Anesthesiology Journal Major Trials Session, American Society of Anesthesiologists Annual Meeting, San Francisco, October
397. Perioperative myocardial injury, American Society of Enhanced Recovery, San Francisco, October
398. Quality of patient care; myocardial injury and its implications for perioperative medicine, Keynote talk. Chinese Society of Anesthesia and Australasian Congress of Anaesthesiologists, Beijing, November
399. Myocardial injury, Perioperative thermoregulation, Malignant hyperthermia. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán. Mexico City, February 2019
400. Myocardial injury. Crawford Long Lecture. Emory University, Atlanta, March
401. Design options for ICU sedation trials. ACTION SCEPTOR FDA Consensus meeting, Washington DC, March
402. Myocardial injury, Perioperative thermoregulation. Harvard CME meeting, Boston, May
403. Perioperative myocardial injury, European Society of Anesthesia. Vienna, June
404. Paravertebral analgesia and breast cancer recurrence: initial report of a large randomized trial. 5th Collaborative Clinical Trials in Anaesthesiology meeting. Prato, June
405. Perioperative myocardial injury. Shanghai Anesthesia Society, Shanghai, June
406. Perioperative myocardial injury. Shanghai Chest Hospital, June
407. Perioperative myocardial injury. Fuwai Hospital, Beijing, September
408. Clinical research to guide clinical care, Peking Union Medical College Hospital, September
409. Malignant Hyperthermia Association of America Webinar on temperature monitoring, October
410. Anesthesia and cancer recurrence. International Society of Anesthetic Pharmacology. Orlando, October
411. Results from an international trial of paravertebral anesthesia on breast cancer recurrence (Major Trials session), Myocardial injury. American Society of Anesthesiologists Annual Meeting. Orlando, October
412. Perioperative Medicine (keynote talk), Myocardial injury, Anesthesia and cancer. Tertúlias de Anestesiologia. Furnas, Azores. November
413. Bias and statistical considerations. University of Texas, Southwestern. Dallas, January 2020

414. Myocardial injury, Lost in Translation, Surgical site infection. Anesthesia Camp. Grand Cayman. January
415. Intraoperative hyperoxia: good or bad? European Society of Anesthesiologists. Virtual, May
416. Perioperative myocardial injury. 9th Oriental Congress of Anesthesiology and Perioperative Medicine, virtual, September
417. Perioperative mortality. NSU-KPCOM Anesthesia and Entrepreneurs in Healthcare. NOVA University, virtual, October
418. Perioperative hypotension, Anesthesiology Journal Symposium. ASA Annual Meeting, virtual, October
419. Emerging trends in clinical trials. Perioperative Medicine Forum, Peking University First Hospital, virtual, October
420. Myocardial injury. European Society of Intensive Care Medicine, virtual, November
421. Are surgical wards more dangerous than operating rooms? European Society of Anaesthesia, virtual, November
422. Sources of error in observational research. Virtual lecture for Beijing Society of Anesthesia. (Watched by more than 11,000 people.) December
423. Meta-analysis, Manuscript preparation. Virtual lecture for Beijing Society of Anesthesia. (Watched by more than 11,000 people.) December

424. Myocardial injury, Ann Arbor Associates. Virtual. March 2021
425. Myocardial injury, West China Hospital. Virtual, March
426. Myocardial injury. French Society for Anesthesia and Intensive Care. Virtual, March
427. Myocardial injury and hypotension. Perioperative Stewardship, Virtual, April
428. Myocardial injury. Korean Society of Cardiothoracic and Vascular Anesthesia. Virtual April
429. Myocardial injury and hypotension. Keynote lecture. 10th Oriental Congress of Anesthesiology and Perioperative Medicine. Virtual, June
430. Myocardial injury. Grand Rounds. Tufts University, Virtual, July
431. Perioperative thermoregulation. Masterclass. University of Leiden, Virtual, July
432. Clinical trial methodology. Annual meeting of the Anesthesiology Department, First Peking Hospital (watched by 1,275 people), Virtual, August
433. Clinical trials. Chinese Association of Plastics and Aesthetics, Chinese Society for Anesthesia, Sedation and Analgesia (CSASA). Virtual, August
434. Opening lecture. Société Française d'Anesthésie et de Réanimation. Paris, September
435. Myocardial injury. Indian Society of Oncoanaesthesia & Perioperative Care. Virtual. September
436. FAER-Helrich lecture; Panel discussion on definition of MINS, preoperative risk assessment and stratification; Refresher course on perioperative myocardial injury; Penicillidone and pulmonary complications. ASA Annual Meeting, San Diego, October
437. Defining hypotension; the power of large datasets. Australia and New Zealand College of Anaesthetists Annual Meeting. Virtual, November
438. Anesthesia's legacy: carpe diem. Taiwan Society of Anesthesiologists. Virtual, December
439. Myocardial injury. Fuwai International Cardiovascular Anesthesiology Forum. Virtual, December
440. Perioperative myocardial injury. Temple University. Virtual, December
441. Intraoperative hypotension and impact on patient outcomes. Pro-con debate on clinical versus basic research. EuroAnaesthesia. Virtual, December
442. Myocardial injury after noncardiac surgery, Perioperative thermoregulation, Surgical site infection, Malignant hyperthermia. Holiday Seminars, Maui, February 2022
443. Clinical trial methodology, BMS Foundation National Medical Fellowship program, virtual, February

444. Perioperative mortality. NSU-KPCOM Anesthesia and Entrepreneurs in Healthcare. NOVA University, virtual, March
445. Anesthesia's legacy: carpe diem. Resident Research Day, Wake Forest, Winston-Salem, April
446. Anesthesia's legacy: carpe diem. Grand Rounds, University of Southern California, virtual, April
447. Aggressive intraoperative warming versus routine thermal management during noncardiac surgery: the PROTECT trial. Late-breaking trials session, American College of Cardiology, Washington DC, April
448. We should target a mean arterial pressure ≥ 65 mmHg. Korean Society of Anesthesia, virtual, April
449. Thermal management. Philippine Society of Cardiothoracic Anesthesiologists, virtual, April
450. Perioperative thermoregulation. Australian and New Zealand College of Anaesthetists Annual Meeting, virtual, May
451. Perioperative thermoregulation. Singapore Society of Anesthesiologists, virtual, May
452. MAP should be kept >65 mmHg. Korean Society of Anesthesiologists, virtual May
453. The PROTECT trial. Perioperative Temperature Management World Congress, Amsterdam, June
454. Aggressive intraoperative warming versus routine thermal management during noncardiac surgery: the 5056-patient PROTECT trial, Why hypotension matters. European Society of Anesthesiology meeting, Milan, June
455. Aggressive intraoperative warming versus routine thermal management during noncardiac surgery: the 5056-patient PROTECT trial, Trials meeting, Prato, June
456. Perioperative consequences of hypotension. International Symposia on Perioperative Medicine and Perioperative Sleep Research Update. Virtual [watched by $>7,000$ people], June
457. Trial methodology, West China Hospital. Virtual, June
458. Perioperative thermoregulation. Asia International ERAS meeting. Virtual, July
459. Myocardial injury. Grand rounds. California Pacific Medical Center. Virtual. September
460. Perioperative myocardial injury, Supplemental oxygen and Nausea and vomiting, Delirium and cancer recurrence with volatile versus intravenous anesthesia, POLMA trial of endotracheal intubation versus laryngeal mask airways, American Society of Anesthesiologists Annual Meeting, New Orleans, October
461. Anesthesia's legacy, carpe diem, International Anesthesia & Acute Care Conference, Abu Dhabi, Virtual, October
462. Anesthesia's legacy; carpe diem. Department of anesthesia. Leiden University Medical Center, Leiden October, virtual
463. The burden of perioperative mortality and the contribution of perioperative myocardial injury. Keynote opening lecture. European Society of Anesthesia Focus Meeting, Barcelona, October
464. Perioperative hypotension. American Heart Association. Chicago, October
465. Myocardial Injury. 16th Asian Australasian Congress of Anaesthesiologists, Seoul, Virtual. November
466. Observational research. Chinese Society for Anesthesia, Sedation, and Analgesia, Shanghai, virtual December
467. Sources of error in observational research. Fuwai International Cardiovascular Anesthesiology Forum, Beijing, virtual, December
468. Clinical trial methodology. Renji Hospital, Shanghai Jiaotong University School of Medicine. Shanghai, virtual, December
469. Anesthesia's legacy; carpe diem. Grand rounds, University of Texas Health System, Houston, January 2023
470. Anesthesia's legacy; carpe diem. UCSF Oral Surgery Symposium, Kona, Hawaii, February
471. Myocardial injury. Bernese Society of Anesthesia. Symposium: Anaesthesia in the Goldilocks Zone. February, Virtual.
472. Anesthesia's legacy: carpe diem, Clinical trial methodology. University Medical Center Hamburg-Eppendorf, Hamburg, April.

473. Anesthesia's legacy: carpe diem. University of Zurich, Zurich, April
474. Anesthesia's legacy: carpe diem, Perioperative thermoregulation, Noiceception monitoring, Anesthesia and cancer recurrence. Ambulatory Anesthesia Congress. Zurich, April
475. Anesthesia's legacy: carpe diem. Cardiovascular Outcomes in Perioperative Medicine. Portland Oregon, May
476. Myocardial injury after noncardiac surgery, Postoperative respiratory depression. Harvard Anesthesia Update, Boston, May
477. Perioperative thermoregulation. Webinar for Asian audiences. May
478. Andres Hoefft Lecture, Propofol v. sevoflurane on delirium and cancer recurrence. European Society of Anaesthesia, Glasgow, May
479. Perioperative thermoregulation, Postoperative delirium. Peking Union First Hospital, Beijing, June
480. Anesthesia's legacy: carpe diem. International Perioperative Medical Forum, Beijing, June
481. Anesthesia's legacy: carpe diem. Shanghai Chest Hospital, Shanghai, June
482. Perioperative myocardial injury. Renji Hospital, Shanghai, June
483. Perioperative myocardial injury, Ribeirão Preto Anesthesia, Perioperative Medicine and Pain Meeting October, virtual
484. Perioperative thermoregulation, refresher course; Temperature and delirium, panel discussion. American Society of Anesthesiologists Annual Meeting, San Francisco, October
485. Perioperative myocardial injury, Fuwai International Cardiovascular Anesthesia Forum, Beijing, November
486. Trial methodology, Fuwei Hospital, Beijing, November
487. Trial methodology, Chinese Association of Plastics and Aesthetics; Chinese Society for Anesthesia, Sedation, and Analgesia annual meeting, Shanghai, November

488. Perioperative myocardial injury, Grand rounds, University of Alabama, virtual, January 2024
489. Perioperative myocardial injury, Grand rounds, MD Anderson, Houston, February
490. Perioperative thermoregulatory, Grand rounds, UT Health, Houston, February
491. Clinical trial methodology, Anesthesia Department, Peking Union Medical College Hospital, Virtual, February
492. Postoperative mortality, Grand rounds, Johns Hopkins, March
493. Myocardial injury. Navel Medical Center Portsmouth, Virtual, March
494. Anesthesia's legacy, Keynote lecture, Anesthesia Symposium LINZ, Linz, April
495. Perioperative mortality, grand rounds, Vienna General Hospital, Vienna April
496. Anesthesia and cancer recurrence, Surgical site infection. Harvard Anesthesia Review, Boston, May
497. Forced air warming comparison: a randomized trial. Thermoregulation meeting, Amersfoort, May
498. Use and misuse of composite outcomes, Esketamine and post-partum depression, European Society of Anesthesia and Intensive Care annual meeting, Munich, May
499. Esketamine and post-partum depression, Monash Trials Meeting, Prato, May
500. Thermoregulation, Clinical trial methodology, Special lectures, West China Hospital of Sichuan University, Chengdu, July
501. Thermoregulation, Clinical trial methodology, Special lectures, Children's Hospital, of Chongquin Medical University, Chongqing, July
502. Sources of Error, Introduction to Clinical Research course, Johns Hopkins, virtual, August
503. The gathering storm. Keynote opening lecture, the Australian Society of Anesthesiologists Annual Meeting, Darwin, Australia, September, virtual
504. Trial methodology. Shanghai 9th Hospital, Shanghai, September
505. Sources of error in clinical research. Shanghai Cancer Center, Shanghai, September
506. Perioperative myocardial injury. Chinese Society of Anesthesia, keynote talk. Shanghai, September

507. Trial methodology, Shanghai Pulmonary Hospital, Shanghai, September
508. Trial methodology, Shanghai Sixth People's Hospital, Shanghai, September
509. Perioperative blood pressure, Korean Society of Anesthesiologist Annual Meeting, Virtual, November

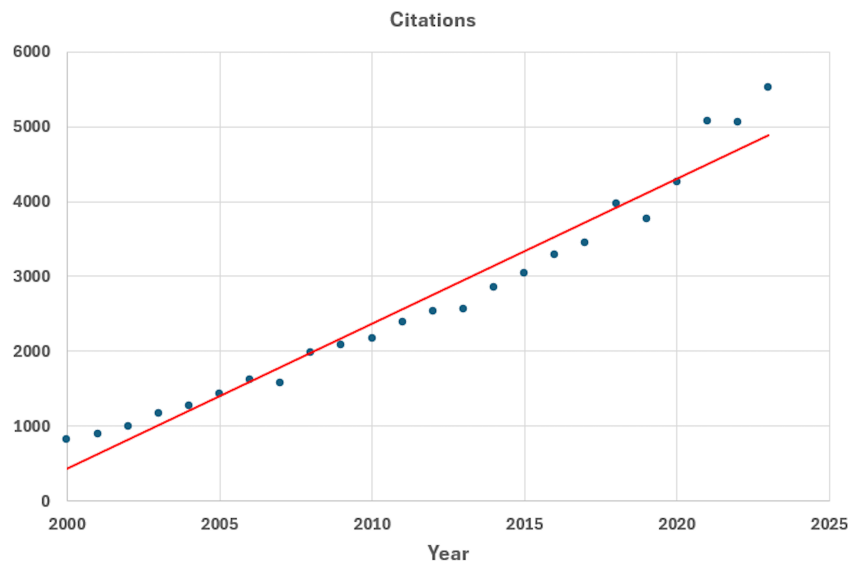
510. Nociception monitoring, Perioperative Mortality, UT Southwestern, Dallas, January 2025
511. Perioperative risk. TMC AI Summit, Houston, February
512. Postoperative hemodynamics, Perioperative Hemodynamics and Management Meeting, Carcamba, Turkey, Virtual, February
513. Perioperative mortality, Department of Surgery Grand Rounds, UTHealth, Houston, March
514. Myocardial injury, Perioperative delirium, Harvard Anesthesiology Update, Boston, May
515. Perioperative thermoregulation, Grand Rounds, Methodist Hospital, Houston, May
516. Cluster randomized trials, Two randomized trials of continuous ward monitoring: COSMOS and ViSi, A randomized trial of intraoperative thermal management and esophageal cancer recurrence, European Society of Anesthesiologists and Intensive Care, Lisbon, May
517. Clinical trial methodology, Introduction to Clinical Research course, Johns Hopkins, virtual, August
518. Postoperative mortality, Grand Rounds, Department of Anesthesiology, Baylor Medical School, September
519. Perioperative delirium, American Society of Anesthesiologists, San Antonio, October

520. Surgical site infections, Grand Rounds, Department of Anesthesiology, UTHealth Houston, February 2026
521. The Gathering storm, Keynote opening talk. Romanian Society of Regional Anesthesia Annual Meeting, Cluj-Napoca, March
522. Malignant hyperthermia, Grand Rounds, Department of Anesthesiology, UTHealth Houston, April
523. Perioperative mortality, Grand Rounds, Department of Medicine. MD Anderson, Houston, April
524. Can regional analgesia reduce postoperative mortality?, Regional Anesthesiology and Acute Pain Medicine Annual Meeting, Phoenix, April
525. Postoperative mortality, Grand Rounds, Indiana University, Virtual, April
526. Alternate outcomes in perioperative renal safety studies. AKI Endpoints symposium, Food and Drug Administration, Silver Spring, April
527. Perioperative mortality, Amsterdam UMC Hospital, Amsterdam, June
528. Comparison of forced-air warming system efficacy. Thermoregulation symposium Rotterdam, June
529. Is there still meaningful research to be done in anesthesia? European Society of Anesthesia and Intensive Care, Rotterdam, June
530. Supplemental air filtration and surgical site infections. Anesthesia Trials Meeting, Prato, June
531. Perioperative mortality. Anesthesia Patient Safety Foundation Stoelting Conference, Washington DC, September

BIBLIOGRAPHY

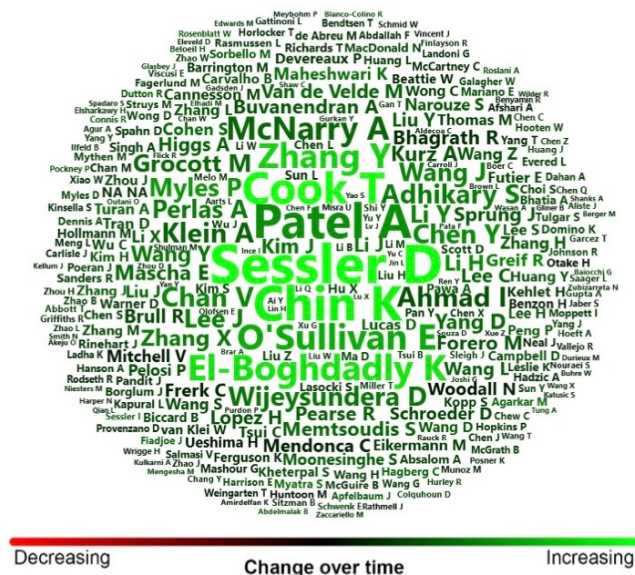
Overall citations

Dr. Sessler has published more than 1,000 full papers that have been cited more than 120,000 times in peer-reviewed publications. More than 30 of Dr. Sessler's papers have been cited more than 350 times. His H Index is 166 (i.e., 166 papers cited more than 166 times). Citation estimates from Google Scholar 5/25. By citations, Dr. Sessler is ranked #1 in Anesthesia, and among the *top 0.01% of all authors in all fields* (Ioannidis, PLoS Biology 2019).



Anesthesiology Research by citations, 2015-2024

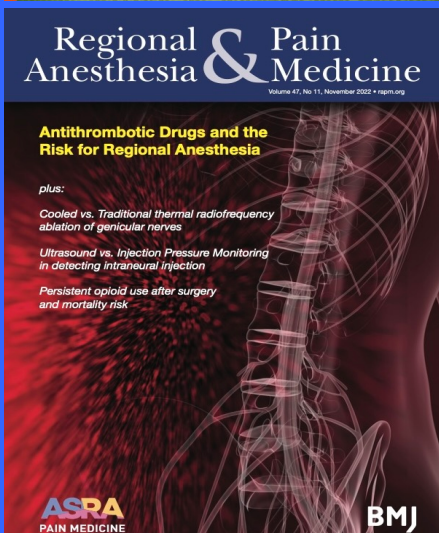
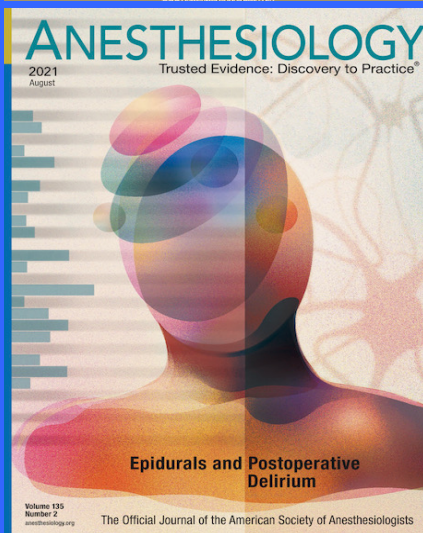
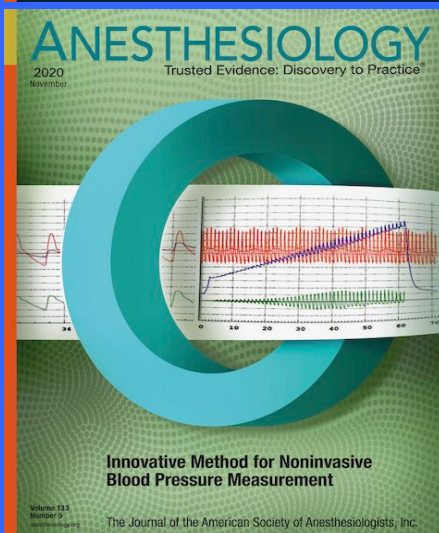
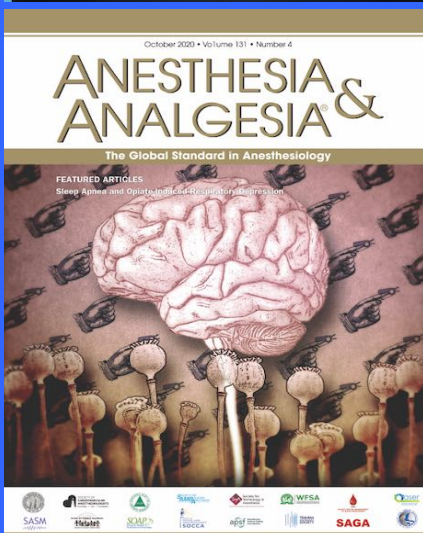
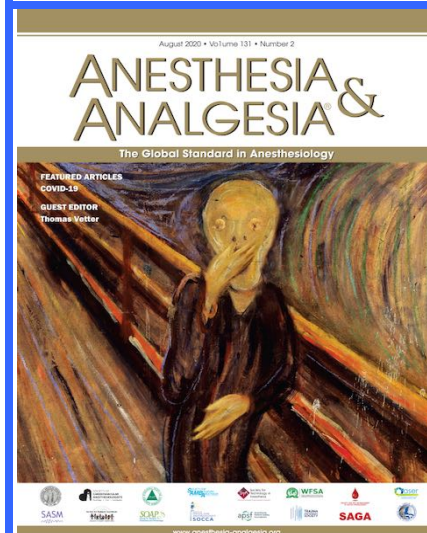
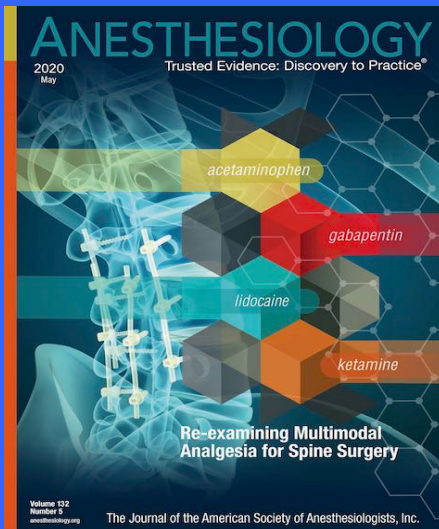
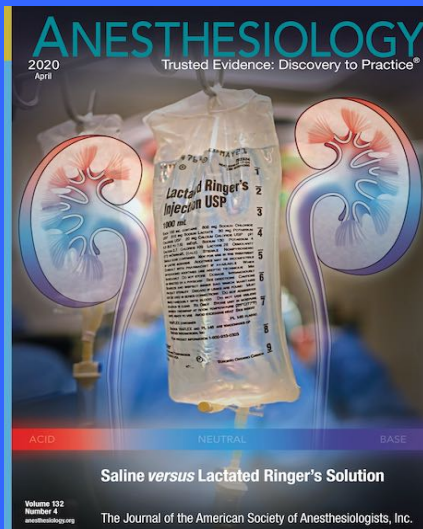
Citations in Anesthesiology journals. Size of authors' names indicates frequency of citation in top 5 anesthesia journals by impact factor: *British Journal of Anaesthesia*, *Anesthesiology*, *Anaesthesia*, *Pain*, *Regional Anesthesia and Pain Management*, and the *Journal of Clinical Anesthesia*. Size indicates citation frequency. Color indicates trend over 10-year analysis period ending in 2024. Figure prepared by Prof. Steven Shafer, MD.

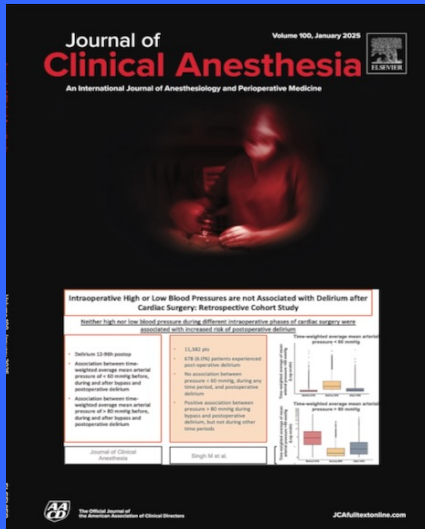
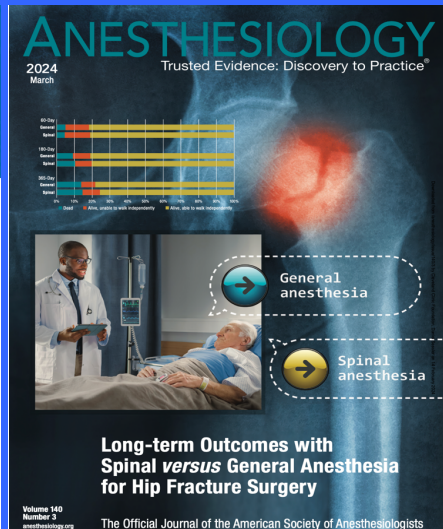
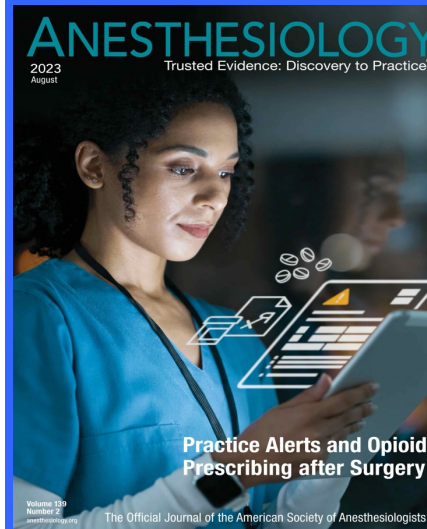
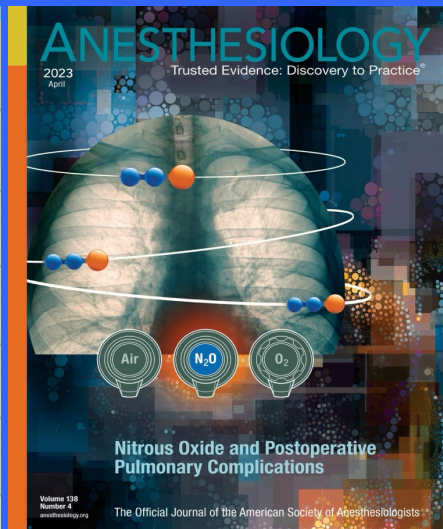
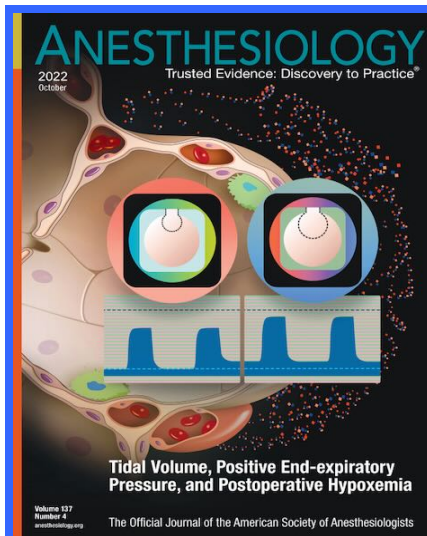


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4. Greif R, Akça O, Horn E-P, Kurz A, Sessler DI, for the Outcomes Research Group: Supplemental perioperative oxygen to reduce the incidence of surgical wound infection. **N Engl J Med** 343:161-167, 2000 [Accompanied by an editorial: 342:202-204, 2000]
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