

Alan Robert Tait, Ph.D.
Endowed Professor of Clinical Research
Department of Anesthesiology
University of Michigan Health System
1150 W. Medical Center Dr. – 7433 Med. Sci. Bldg. 1
Ann Arbor, MI 48109-5615
734-763-8128
atait@umich.edu

Education and Training

Undergraduate: Polytechnic of Central London
University of London
London, England
B.Sc., Zoology/Physiology
1969-1972

Graduate: University of Michigan
School of Public Health
Ph.D. Epidemiologic Science
1986

Research Appointments: Senior Research Technologist
Department of Anaesthetics
Royal Postgraduate Medical School
London, England
1973-1976

Research Technician I
Department of Otolaryngology
Wayne State University
Detroit, Michigan
1976-1977

Research Assistant I
Department of Anesthesiology
The University of Michigan Medical Center
Ann Arbor, Michigan
1977-1978

Research Associate II
Department of Anesthesiology
The University of Michigan Medical Center
Ann Arbor, Michigan
1978-1981

Academic, Administrative, and Clinical Appointments

Department of Anesthesiology
University of Michigan Medical School

Research Investigator
1981-1988

Assistant Professor/Assistant Research Scientist
1988-1993

Interim Director of Research
January-July, 1990

Associate Director of Research
1991-2002

Associate Professor (with tenure)
1993-2004

Director of Clinical Research
2002-2014

Professor
2004-present

The Department of Anesthesiology Endowed Professor of
Clinical Research
2005-present

Director, Intern Research Program
2010-present

Michigan Institute for Clinical and Health Research (MICHR)
Faculty Lead, Regulatory Knowledge and Support
Program
2016-present

Research Interests

1. Developing strategies to improve the communication of informed consent to adult patients, parents, and children. Current studies suggest that many patients and research subjects have limited understanding of the elements of consent and therefore may not be truly informed. It is hoped that this research will be important in enhancing understanding and ensuring that the legal and ethical rights of patients and research subjects are protected.

2. Studies examining the effects of general anesthesia on outcomes in children who present for surgery with a variety of risk factors including upper respiratory tract infections, obesity, ADHD, and sleep-disordered breathing. This work has identified several risk factors for children undergoing elective surgery and suggests ways in which the anesthetic management of these children can be optimized.

Grants

Current

The Greenwall Foundation
Toward a consensus operational definition of child assent for research
Principal Investigator
7/1/2015-9/30/2016
\$89,500

NIH / NCATS (UL1 TR000433, Mashour, GA)
Michigan Institute for Clinical and Health Research (MICHR)
Role: Faculty Lead – Regulatory Knowledge and Support Program
06/27/12 – 05/31/17
\$6,244,020

NIH, NHLB-SBIR/Phase II-ArchieMD (Prime, 2R44HL124872-02)
Mixed-reality simulation training for pediatric airway management
procedures
Site Principal Investigator
4/1/2016-3/31/2018
\$403,969

Pending

NIH, SBIR/Phase II-ArchieMD (Prime)
First person point of view mixed reality simulation for medical procedural
training
Site Principal Investigator
7/1/2016-6/31/2018
\$373,060

NIH, SBIR/Phase I-ArchieMD (Prime)
An interactive app to promote safe and effective use of opioids in young
children postoperatively
Co-investigator
7/1/2016-6/31/2017
\$75,000

Past

NIH, NIGMS-SBIR/Phase I-ArchieMD (Prime, R43GM109660)
First person point of view augmented reality for medical training
Site Principal Investigator
5/15/2015-12/14/2015
\$50,000

FAER, Medical Student Anesthesia Research Fellowship Year-long program
(Rebecca Bickham, fellow)
Predicting postoperative opioid-related adverse events and unplanned
admissions in children with sleep disordered breathing
Principal Investigator mentor
7/7/2014-7/6/2015
\$50,510

NIH, Contract SBIR/Phase II-ArchieMD (Prime, HHSN268201000026C)
An interactive program for pediatric clinical trials
Site Principal Investigator
4/1/2012 – 3/31/2015
\$391,568

NIH, CDC/NCCDPHP-SBIR/Phase I (Prime)
iPAD application for embryo transfer practices
Site Principal Investigator
8/25/2014 – 2/24/2015
\$21,576

NIH, NHBLI-STTR/Phase II-ArchieMD (Prime, R42HL087488)
An interactive informed consent program for cardiac procedures
Site Principal Investigator
7/7/2010 – 4/30/2013
\$320,784

NIH, NICHD (R01HD053594)
Strategies to optimize communication of informed consent for pediatric
research
Principal Investigator
8/10/2007 – 5/31/2012
\$1,165,000

NIH, Contract SBIR/Phase I-ArchieMD (Prime, HHSN268201000026C)
An interactive program for pediatric clinical trials
Site Principal Investigator
8/13/2010 – 2/12/2011
\$21,499

NIH, NHBLI-STTR/Phase I-ArchieMD (Prime, R41HL087488)
An interactive informed consent program for cardiac procedures

Principal Investigator
9/1/2007 – 2/28/2009
\$66,915

NIH, NICHD (R03)
Pain assessment in cognitively impaired children
Shobha Malviya, M.D., Principal Investigator
1/1/2004 – 12/31/2005
Co-Investigator
\$257,791

Blue Cross/Blue Shield of Michigan
Living with cancer: the quality of cancer pain management in African
Americans
Carmen R. Green, M.D., Principal Investigator
3/1/2003 – 2/28/2005
Consultant

NIH, NIGMS (R01GM61971)
Informed consent for studies involving surgical patients
Principal Investigator
7/1/2000 – 6/30/2003
\$680,250

AETNA Quality Care Research Fund
The health outcomes and quality of care of African Americans living with
chronic pain
Carmen R. Green, M.D., Principal Investigator
12/1/2001 – 11/30/2002
Consultant
\$150,000

University of Michigan UROP Faculty Mini-Grant
Factors that influence parents' understanding of, and consent for, their child's
participation in clinical anesthesia and surgical research
Principal Investigator
7/1/2000 – 12/31/2000
\$3,100

AETNA Quality Care Research Fund
Evidence based practice guidelines increase quality and patient satisfaction
and decrease costs of perioperative care
Michael O'Reilly, M.D., Principal Investigator
9/1/1998 – 8/31/2001
Consultant
\$390,670

Gensia Inc.
Use of the laryngeal mask airway in children with upper respiratory tract

infections: A comparison with endotracheal intubation
Principal Investigator
1/1/1996 – 12/31/1996
\$5,000

Sigma Theta Tau International, Inc.
Evaluation of simethicone in the treatment of postoperative abdominal
distension in infants
Terri Voepel-Lewis, Principal Investigator
1/1/1996 – 12/31/1996
Consultant
\$1,000

University of Michigan Hospitals Small Grant Program
Evaluation of the efficacy and cost-effectiveness of routine electrocardiogram
(EKG)
Principal Investigator
1/1/1994 – 12/31/1994
\$13,119

American Heart Association, Inc.
The effect of dose and vehicle on the nasal absorption of epinephrine during
CPR
Barry Bleske, Principal Investigator
7/1/1993 – 6/30/1994
Co-Investigator
\$26,950

NIH, NIGMS, State University of New York at Buffalo (Prime GM28911)
Anesthetic action and virus replication
Paul R. Knight, M.D., Principal Investigator
10/1/1992 – 7/30/1993
Co-Investigator
\$35,163

NIH, NIGMS FIRST Award (GM39505)
Anesthesia and upper respiratory tract infections
Principal Investigator
12/1/1988 – 11/30/1994
\$546,632

NIH, NIGMS (R01GM28911)
Anesthetic action and virus replication
Paul R. Knight, M.D., Principal Investigator
Co-Investigator
8/1/1988 – 9/30/1992

Honors and Awards

1972	Undergraduate degree in zoology-physiology awarded with honors
1998-94	FIRST Award, National Institute of General Medical Sciences
1993	Tenure, University of Michigan
1995	Department of Anesthesiology Certificate of Excellence
1998	Research mentor for Deanna Dorantes, M.D. awarded The Peter J. Cohen, Anesthesiology Resident Research Award, University of Michigan 1 st Prize, Obstetric Poster Discussion 3 rd Prize, Overall meeting presentation Midwest Anesthesia Residents' Conference, Minneapolis, MN
2000	Research mentor for Shobha Malviya, M.D., awarded tenure
2003	Research mentor for Carmen Green, M.D., awarded tenure
2003	Faculty mentor for Julie Conley, awarded the UROP Summer Biomedical Research Fellowship
2004	Department of Anesthesiology Academic Achievement Award
2004	Department of Anesthesiology Endowed Professor of Clinical Research
2005	McDevitt Excellence in Research Award, Blue Cross and Blue Shield of Michigan. Awarded to: S. Malviya, T. Voepel-Lewis, A Ludomirsky, J Marshall, and AR Tait
2009	Undergraduate research mentor for Elsa Pechlavinidis and Caela Hesano awarded Blue Ribbon, UROP Symposium poster presentation
2014	“Making a Difference” recognition, Department of Anesthesiology

Memberships in Professional Societies

American Society of Anesthesiologists
Michigan Society for Medical Research
Michigan Society of Anesthesiologists
International Anesthesia Research Society
Society for Epidemiologic Research, 1983-1993
Society for Ambulatory Anesthesia
Society for Pediatric Anesthesia
American Association of University Professors
Association of University Anesthesiologists (elected)

Editorial Positions, Boards, and Peer-Review Service

Ad Hoc Grant Reviewer: National Institutes of Health NICHD (*Special emphasis panel*)
Bethesda, MD, 1994

Department of Anesthesiology, Research Grants
Henry Ford Health Sciences Center
Detroit, MI 48202, 1995-1997

MICHR Pilot and Collaborative Grant program
University of Michigan, 2007

Wellcome Trust Biomedical Ethics Programme,
London, England, 2007, 2009

State of Louisiana Board of Regents Grants Program,
Baton Rouge, LA, 2009

Raine Medical Research Foundation Priming Grants Program,
University of Western Australia, Australia, 2011

National Institutes of Health (BSPH), Bethesda, MD, 2012

Journal Reviewer:

Invited Reviewer for

Accountability in Research: Policies and Quality Assurance
Acta Paediatrica
Alzheimer's Disease & Parkinsonism
American Journal of Bioethics (AJOB) Empirical Bioethics
American Journal of Managed Care
Anesthesia and Analgesia
Anesthesiology
Annals, Academy of Medicine, Singapore
Annals of Oncology
Archives of Disease in Childhood
Archives of Pediatrics and Adolescent Medicine
BioMed Central (BMC)-Medical Ethics
BMC-Pediatrics
BMC-Medical Research Methodology
BioMed Research International
British Journal of Anaesthesia
Clinical and Experimental Gastroenterology
Cochrane Anaesthesia Review Group
Critical Care Medicine
Current Medicinal Chemistry
Environmental Health Insights
European Journal of Anaesthesiology
European Journal of Pain
European Journal of Pediatrics
Genome Medicine
Health Education and Behavior
International Journal of Health Policy and Management
International Journal of Pediatrics
International Journal of Public Health and Safety
Journal of Adolescent Health
Journal of the American Medical Informatics Association
Journal of Clinical Anesthesia

Journal of Clinical Epidemiology
Journal of Clinical Oncology
Journal of General Internal Medicine
Journal of Medical Ethics
Journal of Pediatrics
Journal of Pediatric Surgery
Lancet
Local and Regional Anesthesia
Open Access Journal of Clinical Trials
Paediatric and Perinatal Epidemiology
Pain
Pain Medicine
Patient Education and Counseling
Patient Intelligence
Patient Preference and Adherence
Patient Related Outcome Measures
Pediatric Anesthesia
Pediatrics
Pharmacoepidemiology and Drug Safety
PLoS ONE
Social Science and Medicine
Trials
Western Journal of Nursing Research
Women's Health Issues

Scientific Judge/Moderator:

Midwest Anesthesia Resident's Conference (MARC)
University of Michigan
Ann Arbor, Michigan
March 24-26, 1995

MARC
Milwaukee, Wisconsin
March 23-25, 2001

Society for Pediatric Anesthesia
Las Vegas, NV
March 16, 2013

European Society for Paediatric Anaesthesiology
Geneva, Switzerland
Sept. 6, 2013

MARC
Chicago, IL
April 4-6, 2014

Society for Pediatric Anesthesia

Teaching Activities

- 1977-present Provided training in anesthesia research, study design, and statistics for: Post-doctoral fellows, medical student preceptors, interns, residents, and Anesthesiology Department faculty
- 1987-89 Monthly respiratory physiology tutorial and laboratory for M-3 and M-4 medical students (Jay Finch, M.D., Director).
- 1988-present Medical student mentor/advisor for Anesthesiology Research elective (Course ID: 31054, 001GENR.U)
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|------|--|
| 1988 | Julie Buch |
| 1988 | Mary Cheng |
| 1099 | Mark Dentz |
| 1988 | John Givogre |
| 1989 | Jason Sankar |
| 1989 | Brian Phillipotts |
| 1989 | Frederick Ganzi |
| 1989 | Lois Lampe |
| 1989 | Kurt Olsen |
| 1990 | David Milek |
| 1990 | Lori Quinlan |
| 1990 | Alan Weissman |
| 1990 | Mark Aulicino |
| 1990 | Ellen Janke |
| 1991 | Brigitte Koegler |
| 1991 | David Hwang |
| 1991 | Virginia Nelson |
| 1992 | Martha Hauch |
| 1993 | Andrew Montes |
| 1994 | Adam Waldman |
| 2000 | Miguel Suarez |
| 2001 | Jeremy Scarlett |
| 2001 | Kevin Vorenkamp |
| 2002 | Stacey Rhodes (M2, independent research) |
| 2002 | Christopher Colville |
| 2004 | Nicholas Russo |
| 2004 | Okera Hanshaw |
| 2005 | Cynthia Woods |
| 2006 | Ryan Fink |
| 2008 | Sachin Gupta |
| 2009 | Sondra Buist |
| 2009 | Scott Herd |
- 2014 Megan Quinlan (M1): Medical School Summer Biomedical Research Fellow

- 2014-2015 Rebecca Bickham (M3): FAER- MSARF Year-long Fellow
- 2014 Doctoral Dissertation Committee member:
2014-present Elizabeth Eisenhauer, School of Nursing
- 1992-present Resident/fellow research mentor to:
- 1992-93 Vince de las Alas, M.D.
 - 1992-94 Carmen R. Green, M.D.
 - 1993-94 Kimberly Greenwald, M.D.
 - 1993-94 Anna Penna, M.D.
 - 1995-96 Harry Parr, D.O.
 - 1995-97 Marc Wittenberg, M.D.
 - 1997-00 Deanna Dorantes, M.D.
 - 1999-01 Virginia Gauger, M.D.
 - 2000-01 Miklos Gal, M.D.
 - 2001-02 Rita Banoub, M.D.
 - 2002-05 Kayode Williams, M.D.
 - 2002-06 Jill Mhyre, M.D., Robert Woods Johnson Fellow
 - 2003-04 Kanop Metriyakool, M.D.
 - 2004-04 Dominic Monterosso, D.O.
 - 2004-07 Chad Brummett, M.D.
 - 2005-07 Sachin Kheterpal, M.D.
 - 2005-06 Christopher Clinkscales, M.D.
 - 2005-06 Jeremy Poulsen, D.O.
 - 2007-09 Tara Doherty, D.O.
 - 2009-present Lance Patak, M.D., M.B.A.
 - 2009-10 Huong Le, M.D.
 - 2011-present Robert Freundlich, M.D., M.S.
 - 2012-2015 Goonjan Shah, M.D., University North Carolina, NC
 - 2013-2015 Asaad Khan, D.D.S., Lutheran Medical Center, NY
- 1995-present Faculty research mentor to:
- 1995-00 Carmen R Green, M.D. (awarded tenure)
 - 1995-08 Shobha Malviya, M.D. (awarded tenure)
 - 1996-08 Wei Lau, M.D.
 - 1996-00 Hamish Munro, M.D.
 - 1993-98 Michael deRosayro, M.D.
 - 1993-96 Jay Shayevitz, M.D.
 - 1995-00 Gaury Adhikary, M.D.
 - 1995-05 Celia D'Errico, D.O.
 - 1995-99 Philip Cornish, M.D.
 - 1996-97 Sean O'Kelly, M.D.
 - 1997-05 Norah Naughton, M.D.
 - 1998-15 Terri Voepel-Lewis, Ph.D., R.N.
 - 1999-08 Lori Riegger, M.D.
 - 1999-02 Julie Golembiewski, Pharm.D.
 - 2001-08 Virginia Gauger, M.D.

2001-05	Pema Dorje, M.D.
2005-06	Olumuyiwa Bamgbade, M.D.
2008-11	Chad Brummett, M.D.
2009-12	Robert Christensen, M.D.
2010-14	Nicole Wilder, M.D.
2013-15	Hedwig Schroeck, M.D.
2013-present	Sondra Rosander, M.D.
2013-present	Lauryn Rochlen, M.D.
2015-present	Raja Lakshmanan, M.D.
2015-present	Baskar Rajala, M.D.

1996 Faculty mentor, University of Michigan Undergraduate mentorship program

1999-present Faculty mentor, Undergraduate Research Opportunity Program (UROP):

1999-00	Philip Rubin
1999-00	Agnieszka Trzcinka
1999-00	Arti Desai
1999-00	Jane Purakal
1999-00	Nisha Shajahan
2000-01	Anna Halbeisen
2000-01	Megan Harris-Linton
2000-02	Sarah Earle
2001-02	Nina Osak
2001-03	Thomas Mazzocco
2002-03	Julie Conley, UROP Summer Biomedical Research Fellow
2003-04	Bridget O'Brien
2003-04	Elizabeth Caplis
2004-05	Yasmin Elsayed
2004-05	Catherine Burger
2005-06	Christopher Joseph
2005-06	Heather Bowman
2006-07	Sky Yang
2006-07	Robin Snyder
2007-08	Jennifer Hemberg
2007-08	Omotara Kufeji
2008-09	Caela Hesano
2008-09	Elsa Pechlivanidis
2009-10	Kathryn Lypen
2009-10	Bianca Lawrence
2010-11	Nicole Garcia
2010-11	Katherine Bill
2011-12	Rachel Castiglione
2011-12	Blaire Strietelmeier
2012-13	Roneil Jackson
2012-13	Adam Eickmeyer
2012-present	Lamira Ray
2013-14	Dane Krauzowicz

2013-present Kelsey Danley
2014-15 Bryan Aaron

2004-06 Course Instructor: *Psych 533/Neuroscience 520: Sleep: Neurobiology, Medicine, and Society*. “How to read the medical literature”

2007- 2008 Director, Anesthesiology Summer Medical Student Research Preceptor Program

2007 Michael Mathis, University of Michigan
2007 Joyce Kim, University of Michigan
2007 Hainee Chung, Georgetown University
2007 Meghan Stallmer, Georgetown University
2008 Timothy Reynolds, Wayne State University
2008 Ming Zhuo, University of Michigan
2008 Kathryn Blake, University of Michigan

Lecture Presentations:

1988-present Resident/fellow Didactic Lecture Series
1988-present Departmental Research Conferences
1988-present Morbidity and Mortality Conferences
1999-present Medical student preceptors
2002-present Resident Core Conferences-Keywords
2008-present Intern Research Program

Presentations include:

“How to critically review the medical literature”
“Research design and statistics”
“Descriptive and Observational studies”
“Survey Design”
“Universal precautions for prevention of bloodborne pathogens”
“Anesthesia for the child with an upper respiratory tract infection”
“Medical Ethics”
“Hypothesis testing and Power analysis”
“Informed consent and the IRB”
“Informing the uninformed: Informed consent revisited”

2000-01 Co-author (with ML Greenfield, M.P.H.) of a series of eight lectures entitled “Researching Research: Design, Interpretation, and Analysis.” Presented to faculty, residents, nurses, and research staff

Oct. 4 “The history of medical research”
Nov. 1 “Hypothesis testing”
Dec. 6 “Descriptive and observational studies”
Feb. 7 “Experimental studies”
March 7 “Survey research”
April 4 “Univariate, bivariate, and multivariate statistics”

May 2 "Generalization and extrapolation"
June 6 "How to read and evaluate a research article"

2003-04 Series repeated

Faculty Moderator:

1991-present Interns' and CA III residents' Journal Club
1995-present Pediatric Anesthesiology Journal Club
1996-2000 Pain Clinic Journal Club
1998-2000 PACU Nurses' Journal Club

Committee, Organizational, and Volunteer Service

National

2003-present Research Committee, Society for Pediatric Anesthesia
Member, 2003-present
Chair, 2006–2014

2007-08 Committee on Research, American Society of Anesthesiologists

Medical School, University of Michigan

1999 (Nov.) Invited delegate, Heart Care Program's patient care redesign initiative
2001-2011 Institutional Review Board (IRBMED)
2005-present Medical School Admissions' Committee
2007-present Medical School Admissions' Executive Committee

Other, University of Michigan

2010-present Faculty, Center for Bioethics and Social Sciences in Medicine (CBSSM)
2010-present Member, Institute Healthcare Policy and Innovation (IHPI)
2010-present Member, Program in Health Communication and Decision Making (PICHM)

Department of Anesthesiology

1981-86 Research Coordinator
1987-2000 Research Committee
Member, 1987-1992
Chair, 1992-2000
1989-91 ACAPT Committee
1991-2000 Library Committee

1994-2005	Associate Editor for Research, "Michigan Airway"
1996-2012	Resident Education Committee
1996-2000	MORcare Data Analysis and Research Group
1997	Internal Review Committee, June-December
2002-2014	Director of Clinical Research
2007-2012	Chair, Anesthesia Clinical Research Committee (ACRC)
2012-present	ACRC advisory member

Community

1985-1997	Head coach, youth soccer, Brighton MI
1986-1998	Board member, Brighton Soccer Club, Brighton MI
1998-2003	Coach, K-2 instructional soccer, Howell, MI
1998-2008	Co-head coach, Brighton High School varsity rugby, Brighton MI
1999-2001	Head Judge, Hornung Elementary School Science Fair, Brighton MI
2012-present	Presenter, Cooper Upper Elementary School Career Day, Livonia MI

Visiting Professorships, Seminars, and Extramural Invited Presentations:

1. "Research in Anesthesiology," Department of Internal Medicine, Division of Nephrology, University of Michigan, April 1984.
2. "The Effect of Anesthesia on Upper Respiratory Tract Infections in Children," Michigan Association of Nurse Anesthetists, Traverse City, Michigan, May 1984.
3. "The Effect of General Anesthesia on Upper Respiratory Tract Infections in Children," School of Public Health, The University of Michigan, March 1986.
4. "Swan Ganz Insertion and Interpretation of Swan Ganz Data," Monitoring in Critical Care Medicine, Michigan Society of Critical Care Medicine, Ann Arbor, Michigan, December, 1987.
5. Visiting Professor. "Outpatient Anesthesia and the Common Cold." Toledo Society of Anesthesiologists, Medical College of Ohio, Toledo, Ohio, February 1988.
6. "The Child with an Upper Respiratory Tract Infection," Current Controversies in Ambulatory Anesthesia, Department of Anesthesiology, University of Michigan, December, 1988.
7. "The Role of Plasma Substitutes in Hemorrhagic Shock," International Symposium on Blood Use in Cardiac Surgery, Berlin, Germany, December 1989.
8. "The Effect of Anesthesia on Upper Respiratory Viral Infections: The Role of the Immune Response," Department of Anesthesiology, St. Joseph Mercy Hospital, Ann Arbor, MI, March, 1991.
9. "Anesthesia for the child with an upper respiratory tract infection." Department of Anesthesiology, William Beaumont Hospital, Royal Oak, MI, September 1993.
10. Visiting Professor. "The child with an upper respiratory tract infection." Department of Anesthesiology, SUNY at Buffalo, NY, 1996.
11. "Conducting Clinical Research," Undergraduate Research Opportunity Program seminar. University of Michigan, November 2000.

12. "Research for the Pain Practitioner." Children in Pain: Effective Strategies for Pain Management conference. Detroit Medical Center, Ann Arbor MI, April 2000.
13. "Anesthesia for the child with an upper respiratory tract infection," Department of Anesthesiology, St. Joseph Mercy Hospital, Ann Arbor MI, April 23, 2000.
14. Visiting Professor, Department of Anesthesiology and Microbiology, SUNY at Buffalo NY, Aug 5-6, 2002.
15. "How to read the Oncologic literature," Providence Hospital Cancer Institute, 8th Annual Jaffar Oncology Conference. Dearborn MI, Sept. 27, 2002.
16. "Informed consent for clinical research," Program for Improvement of Health Care Decisions, Ann Arbor MI, Jan. 17, 2003.
17. "Perioperative transmission of infection: Implications for anesthesiologists" and "How to read the medical literature," 6th Annual Practical Updates in Anesthesiology, Puerto Vallarta, Mexico, Feb 2-7, 2003.
18. "Web-based technology for presenting informed consent information for research," Clinical Information Systems, e-learning group. Ann Arbor MI. March 27, 2003.
19. "Presenting informed consent information: Do subjects really understand?" Panel speaker, Society for Clinical Research Associates (SoCRA). Rancho Las Palmas CA. Sept. 19, 2003.
20. "Pediatric assent and parental permission: Do kid's opinions count?" Panel speaker, American Society of Anesthesiologists (ASA) annual meeting. San Francisco CA. Oct 15, 2003.
21. "The ethics of clinical research." Undergraduate Research Opportunity Program seminar. University of Michigan, November 19, 2003.
22. "Perioperative transmission of infection: Implications for the anesthesiologist." Refresher course lecture, Society for Pediatric Anesthesia/American Academy of Pediatrics winter meeting, Phoenix AZ. March 5, 2004.
23. Visiting Professor, Department of Anesthesiology, Seattle Children's Hospital, Seattle WA. March 15-18, 2004.
24. "Laryngeal mask airway (LMA) vs. endotracheal tube (ETT) for the child with an upper respiratory tract infection (URI)." Pro-Con debate, Society for Pediatric Anesthesia annual meeting, Las Vegas NV. Oct. 22, 2004.
25. "Informed consent: past, present, and future." Undergraduate Research Opportunity Program Seminar. University of Michigan, November 9, 2004.
26. Visiting Professor, "Designing and conducting clinical research," "Assent and consent for research," "Anesthesia for the child with a URI." Department of. Anesthesiology, Texas Children's Hospital, Houston TX. Feb. 2-3, 2005.
27. Fellows' Research Workshop, Society for Pediatric Anesthesia/American Academy of Pediatrics winter meeting, Miami FL. Feb. 25, 2005.
28. "Evidence-based medicine: Implications for pain practice." Children in Pain: Promoting and integrating best practice. Children's Hospital of Michigan, Ypsilanti MI. April 28, 2005.
29. Fellows' Research Workshop, Society for Pediatric Anesthesia/American Academy of Pediatrics winter meeting, Fort Myers FL. Feb. 17, 2006.

30. Undergraduate Research Opportunity Program (UROP) Career Fair. University of Michigan, Ann Arbor MI, March 8, 2006.
31. "... Say what? Presenting understandable informed consent." JCAHO Public Policy Symposium on Health Literacy, Chicago IL. June 26, 2006.
32. "Minimizing and managing infections in the perioperative period: The role of the Anesthesiologist." Refresher Course lecture, American Society of Anesthesiologists annual meeting, Chicago IL. Oct. 17, 2006.
33. "Snotty-nosed kids and anesthesia: Still nothing to sneeze at?" and "The ethics of informed consent: Moving from the conceptual to the actual," 10th Annual Practical Updates in Anesthesiology, Puerto Vallarta, Mexico. Feb 4-9, 2007.
34. Fellows' Research Workshop, Society for Pediatric Anesthesia/American Academy of Pediatrics winter meeting, Phoenix AZ. March 9, 2007.
35. Fellows' Research Workshop, Society for Pediatric Anesthesia/American Academy of Pediatrics winter meeting, San Diego CA. April 4, 2008.
36. "Upper respiratory tract infections: risk factors and anesthesia management in children." 36. Berner Anästhesie-Symposium: "Hot Spots" in der Kinderanästhesie. "Anesthesia for the overweight and obese child." Inselspital, Bern Switzerland, Sept. 3-4, 2008.
37. Fellows' Research Workshop, Society for Pediatric Anesthesia/American Academy of Pediatrics winter meeting, Jacksonville, FL. March 20, 2009.
38. "Informing the uninformed: Consent made better." Robert B. Sweet Memorial Conference, University of Michigan, Sept. 26, 2009.
39. "Informing the uninformed: Consent revisited," "Research using electronic clinical databases: Fad or future?" Visiting Professor, Dept. Anesthesiology, Columbia University Medical Center, New York, NY, 17-18 Feb. 2010.
40. Fellows' Research Workshop, Society for Pediatric Anesthesia/American Academy of Pediatrics winter meeting, San Antonio, TX. April 17, 2010.
41. "Informing the uninformed: Consent revisited" Child Health and Evaluation Research Seminar (CHEAR). University of Michigan, Dec. 14, 2010.
42. "Informing the uninformed: Rethinking Consent for Research." S.E. Michigan Chapter of the Association of Clinical Research Professionals (ACRP), Eastern Michigan University, May 9, 2011.
43. "Research methods" UROP seminar. University of Michigan, Nov. 9, 2011.
44. Visiting Professor, Children's Memorial Hospital, Chicago IL, April 3-5. 2012.
45. "Informing the uninformed: Strategies to improve the process of informed consent." Center for Bioethics and Social Sciences in Medicine, University of Michigan, Feb. 28th, 2013.
46. "Informing the uninformed: Strategies to improve the informed consent process." Bioethics Grand Rounds, University of Michigan, May 22, 2013.
47. "Informed consent for Anesthesia practice." Anesthesiology Grand Rounds, University of Michigan, July 11, 2013.
48. "Consent dilemmas: American approach." European Society for Paediatric Anaesthesiology (ESPA), Geneva, Switzerland Sept. 6, 2013.

49. Visiting Professor. "Informed Consent: Are we talking the talk but walking the walk with a limp?" Children's Hospital of Philadelphia IRB, Philadelphia PA, Dec. 4, 2013.
50. Visiting Professor. "Obesity and sleep-disordered breathing: Not just for grown-ups anymore" Anesthesiology Grand Rounds, Nationwide Children's Hospital, Columbus OH, March 19, 2014.
51. "Informing the uninformed: Strategies to improve the effectiveness of the informed consent process." OHRP Research Community Forum, Philadelphia PA, Oct. 24, 2014.
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