

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

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Ronald Steven Litman, D.O., M.L.

Address: Department of Anesthesiology & Critical Care
The Children's Hospital of Philadelphia
34th St & Civic Center Blvd
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Education:

1980	B.A.	State University of New York at Buffalo (Biology)
1985	D.O.	New York College of Osteopathic Medicine, Old Westbury, NY
2018	M.L.	University of Pennsylvania School of Law

Postgraduate Training and Fellowship Appointments:

1985-1986	Pediatric Internship, Beth Israel Medical Center, NY, NY
1986-1988	Pediatric Residency, Rainbow Babies and Children's Hospital, Case Western Reserve University, Cleveland, OH
1988-1990	Anesthesiology Residency, Mount Sinai Medical Center, NY, NY
1990-1991	Pediatric Anesthesia Fellowship, The Children's Hospital of Philadelphia

Faculty Appointments:

1991-1992	Senior Instructor in Anesthesiology, University of Rochester School of Medicine and Dentistry
1992-1998	Assistant Professor of Anesthesiology, Pediatrics, and Dentistry, University of Rochester School of Medicine and Dentistry
1998-2001	Associate Professor of Anesthesiology, Pediatrics, and Dentistry, University of Rochester School of Medicine and Dentistry
2001-2008	Associate Professor of Pediatrics, University of Pennsylvania School of Medicine (Secondary)
2001-2008	Associate Professor of Anesthesiology and Critical Care at the Hospital of the University of Pennsylvania and the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
2008-present	Professor of Pediatrics, University of Pennsylvania School of Medicine (Secondary)
2008-present	Professor of Anesthesiology and Critical Care at the Hospital of the University of Pennsylvania and the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

1987-1988	Attending physician, Chagrin Falls Medical Center, Chagrin Falls, OH (Part-time)
1987-1988	Attending physician, Emergency Department, Willard Hospital, Willard OH (Part-time)
1988-1989	Attending physician, Pediatric Clinic, Beth Israel Medical Center, New York, NY (Part-time)
1988-1990	Attending physician, Emergency Department, Lawrence Hospital, Bronxville, NY (Part-time)
1991-2001	Chief, Division of Pediatric Anesthesia, Department of Anesthesiology, University of Rochester, NY
1991-2001	Attending Anesthesiologist, Strong Memorial Hospital, Rochester, NY
1993-2001	Director, Visiting Professor Program, Department of Anesthesiology, University of Rochester, NY
1996-2001	Director, Sedation Credentialing, Strong Memorial Hospital, Rochester, NY
2000-2001	Director, Pediatric Anesthesia Fellowship, Department of Anesthesiology, University of Rochester, NY
2001-present	Attending Anesthesiologist, The Children's Hospital of Philadelphia

Other Appointments:

2003-2015	Chair, Pain and Sedation Committee, The Children's Hospital of Philadelphia
2005-2010	Associate Director of Pediatric Anesthesia Fellowship, and Director of Fellow Education, Department of Anesthesiology & Critical Care, The Children's Hospital of Philadelphia
2005-2015	Director of Clinical Research, Department of Anesthesiology & Critical Care, General Anesthesia Division, CHOP
2013-2019	Medical Director, Malignant Hyperthermia Association of the U.S. Consultant Hotline
2013-2019	Vice-Chair, Scientific Affairs, Malignant Hyperthermia Association of the U.S.
2015-present	Medical Director, Institute for Safe Medication Practices (ISMP)
2017-2019	Member, FDA: Anesthetic and Analgesic Drug Products Advisory Committee
2019-2021	Chair, FDA: Anesthetic and Analgesic Drug Products Advisory Committee

Specialty Certification:

1989	American Board of Pediatrics (Recertified 1996, 2004)
1992	American Board of Anesthesiology (voluntary recertification 2001)

2014 American Board of Pediatric Anesthesiology

Licensure:

1991-2001 New York #164149
 2001-2009 New Jersey #70398
 2001-present Pennsylvania #OS-011927
 2019-2021 Advanced Cardiac Life Support
 2019-2021 Pediatric Advanced Life Support

Awards, Honors and Membership in Honorary Societies:

1993-1994 Teacher of the Year Award, presented by the residents of the Department of Anesthesiology
 1996-2006 Question writer - American Board of Anesthesiology
 1998-2013 Member, Association of University Anesthesiologists
 2000-2011 Oral examiner - American Board of Anesthesiology
 2004 Chair's Award for Academic Excellence, Department of Anesthesiology & Critical Care, The Children's Hospital of Philadelphia
 2005 Malignant Hyperthermia Association of the U.S. Hotline Partnership Award
 2007 The Digby Leigh Lectureship, Children's Hospital Los Angeles

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

1989-2019 International Anesthesia Research Society
 1992-2007 Society of Ambulatory Anesthesia (Committees on Education (1993-2005), Annual Meeting (1994-2006), Midyear Meeting (Chair, 2005-6), Research (2004-2006), Board of Directors (elected) 2004-5, Subcommittee on Scientific Papers (2004-2006), Outcomes Research Award Grant Reviewer (2005))
 2002-present Malignant Hyperthermia Association of the United States (MH Hotline Consultant (2002 - 2019),
 Massik Award Evaluation Committee (2007-present)
 Member, Board of Directors, 2013-2019
 Vice-President, Scientific Development, 2014-2019
 Medical Director, MH Hotline (2013-2019))
 2004-2005 Swiss National Science Foundation (Grant Reviewer for Thomas Erb, M.D., Assessment of Laryngospasm Prevention Strategies in Anesthetized Pediatric Patients.)
 2006 The Wellcome Trust (Grant Reviewer for Philip Hopkins, M.D., Development and validation of a blood-based screening test for malignant hyperthermia.)

National:

1985-2007	American Academy of Pediatrics (QI Committee, Section on Anesthesiology (2000-2010))
1985-Present	American Medical Association
1989-2015	American Society of Anesthesiologists (Committees on Pediatric Anesthesia (1998-present), Professional Education Development (2003-4), Professional Liability (2010-present))
1991-Present	Society of Pediatric Anesthesia (Committees on Publications (1992-1996), Sedation (1997-2010), Research (2000-2012))
1992-2002	National Speakers Association
1993-2007	National Association for Medical Communicators
1995-2007	National Organization of American Mohalim
2007-2012	Society of Pediatric Sedation (Founding Member, Board of Directors)

Local:

1991-2001	New York State Society of Anesthesiologists (1991-2001) (Miniworkshop and Scientific Committees (1992-2000), Vice-President Rochester District (1993-2001))
2001-2015	Pennsylvania Society of Anesthesiologists
2001-2005	Philadelphia Society of Anesthesiologists

Editorial Positions:

1991-Present	Anesthesia & Analgesia (ad hoc reviewer)
1996	Pediatrics in Review (ad hoc reviewer)
1998-2005	Self-Education and Examination Program of the American Society of Anesthesiologists (question writer)
1998-2002	American Journal of Anesthesiology (Associate Editor)
2000-Present	Anesthesiology (ad hoc reviewer)
2001-2002	Self-Education and Examination Program of the American Society of Anesthesiologists (Editor)
2002	Pediatric Drugs (ad hoc reviewer)
2002-Present	Pediatrics (ad hoc reviewer)
2002-Present	Journal of Clinical Anesthesia (ad hoc reviewer)
2002	American Journal of Emergency Medicine (ad hoc reviewer)
2003-2005	Current Opinion in Anaesthesiology, Pediatric Anesthesia Section Editor
2003	International Journal of Quality Healthcare (ad hoc reviewer)

2004	Cochrane Anaesthesia Review Group (ad hoc reviewer)
2005-Present	New England Journal of Medicine (ad hoc reviewer)
2006-2015	Paediatric Anesthesia (ad hoc reviewer)
2007-Present	Archives of Pediatrics & Adolescent Medicine (ad hoc reviewer)
2008-2015	Editorial Advisory Board, Pediatric Anesthesia
2008-Present	Respiratory Physiology & Neurobiology, (ad hoc reviewer)
2009	Guest Editor, Anesthesiology Clinics of North America. Cutting Edge Topics in Pediatric Anesthesia. Nineteen authors, nine chapters. Volume 27, June 2009.
2010-Present	European Journal of Anaesthesiology (ad hoc reviewer)
2010-Present	British Journal of Anaesthesia (ad hoc reviewer)
2011-2017	Associate Editor, Anesthesiology
2013-2016	Guest Editor, Anesthesia & Analgesia
2014-Present	Ad hoc reviewer, European Journal of Pediatrics
2016-Present	Editor, Acute Care Medication Safety Alert, Institute for Safe Medication Practices
2017-present	Lancet (ad hoc reviewer)

Academic and Institutional Committees:

1991-1992	Education Policy Committee, Department of Anesthesiology, University of Rochester, NY
1992-2001	Resident Selection Committee, Department of Anesthesiology, University of Rochester, NY
1992-1994	Admissions Committee, University of Rochester School of Medicine & Dentistry, Rochester, NY
1993-1994	Resident Education Committee, Department of Anesthesiology, University of Rochester, NY
1993-2001	Pediatric Pain Task Force, Department of Pediatrics, University of Rochester, NY
1998-2001	Research Subjects Review Board, Strong Memorial Hospital, Rochester, NY
1998-2015	Member, Committee on Pediatric Anesthesia, American Society of Anesthesiologists
2001-2009	Director, Workgroup on Anesthetic Management of Patients with Hyperinsulinism, The Children's Hospital of Philadelphia
2001-2019	Malignant Hyperthermia Association of the U.S., hotline consultant.
2002-2013	Therapeutic & Standards Committee, The Children's Hospital of Philadelphia
2004	The Ethel Brown Foerderer Fund for Excellence Review Committee, The Children's Hospital of Philadelphia
2005-2009	General Clinical Research Center (GCRC) Advisory Council
2005-2006	Search Committee for Division Chief of Division of General Anesthesia, The Children's Hospital of Philadelphia
2005	Committee for Development of Perioperative Guidelines for Care of Children with Anterior Mediastinal Masses, The Children's Hospital of Philadelphia

2006-2011	Member, Pediatric Anesthesia Subcommittee on Scientific Content for the annual meeting of the American Society of Anesthesiology
2009-2010	Member, American Academy of Otolaryngology - Head and Neck Surgery Committee on Tonsillectomy in Children.
2009-2012	Member, Committee on Professional Liability, American Society of Anesthesiologists
2014-Present	Member, The Children's Hospital of Philadelphia Conflict of Interest Committee
2015-2016	Member, Joint Commission Technical Advisory Committee on Safe Opioid Prescribing
2016-Present	Vice-Chair, The Children's Hospital of Philadelphia Conflict of Interest Committee
2016-2018	ASA Representative to SCEPTER II, Clinical Trials to Evaluate Safety Outcomes in Procedural Sedation
2016-2018	Member, University of Pennsylvania Council Committee on Honorary Degrees (UCHDC)

Major Academic and Clinical Teaching Responsibilities:

1991-2001	Created and implemented education curriculum on Pediatric Anesthesia, Department of Anesthesiology, University of Rochester NY.
1991-2001	Created and implemented education curriculum on Pediatric Anesthesia for residents in Pediatrics, Pediatric Dentistry, and Emergency Medicine, University of Rochester, NY.
1991-2001	Created and implemented education curriculum on Pediatric Anesthesia for fellowship program in Pediatric Critical Care, University of Rochester, NY.
1991-2001	Created and implemented education curriculum on Pediatric Anesthesia for University of Rochester School of Medicine students.
2001-Present	Teaching fellows, residents, and medical students in the OR environment, The Children's Hospital of Philadelphia.
2004-2005	Director, Pediatric Sedation course, Pediatric Dental Residency, The Children's Hospital of Philadelphia
2007	Discussion Leader, Univ Penn Freshman Reading Project: The Omnivores Dilemma
2008-2017	Annual lectures on malignant hyperthermia to nurse anesthetist students at the University of Pennsylvania School of Nursing.
2011	Discussion Leader, Univ Penn Freshman Reading Project: Reality is Broken, Why Games Make Us Better and How They Can Change the World
2016	Discussion Leader, Univ Penn Freshman Reading Project, Citizen Kane

Lectures by Invitation:

Feb, 1992	What's New in Pediatric Anesthesia? Grand Rounds, Department of Pediatrics, Strong Memorial Hospital, Rochester, NY
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- Feb, 1992 What's New in Pediatric Anesthesia? Grand Rounds, Department of Surgery, Strong Memorial Hospital, Rochester, NY
- Dec, 1992 Future Trends in Pediatric Anesthesia. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- May, 1993 Anesthesia for the Former Premature Infant. Eleventh Annual Can-Am Clinical Anaesthesia Conference, Niagara-On-The-Lake, Ontario, Canada
- Oct, 1993 Conscious Sedation in Pediatric Dental Patients. First Annual Eastman Dental Center Pediatric Alumni Conference, Rochester, NY
- Feb, 1994 Future Trends in Pediatric Anesthesia. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Feb, 1994 Future Trends in Pediatric Anesthesia. Grand Rounds, Department of Anesthesiology, Genesee Hospital, Rochester, New York
- May, 1994 Prevention of Postoperative Nausea and Vomiting. Monroe County and Southern Tier Society of Hospital Pharmacists, Geneva, N.Y.
- Sep, 1994 Prevention of Postoperative Nausea and Vomiting. Western New York Postanesthesia Nurses Association, Rochester, N.Y.
- Sep, 1994 Pediatric Sedation-Standards of Care in the Dental Setting. Eastman School of Dentistry, Rochester, N.Y.
- Dec, 1994 Difficult Airway Workshop. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Dec, 1994 Future Trends in Pediatric Anesthesia. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Dec, 1994 What's New in Pediatric Anesthesia? Grand Rounds, Departments of Anesthesiology and Surgery, Children's Hospital of Buffalo
- May, 1995 Sedation of Children for Painful Medical Procedures. Grand Rounds, Department of Oral Surgery, Strong Memorial Hospital, Rochester, NY
- Jun, 1995 Airway Management for the Trauma Patient. Pediatric Emergency Department Lecture Series, Strong Memorial Hospital, Rochester, NY
- Sep, 1995 Sedating the Pediatric Patient. Department of Radiation Oncology, Strong Memorial Hospital, Rochester, NY
- Nov, 1995 Pharmacology and Clinical Uses of Sevoflurane. Ben Covino Memorial Conference, Newark, N.J.
- Nov, 1995 Pharmacology and Clinical Uses of Sevoflurane. Department of Anesthesiology, Albert Einstein Medical Center, Philadelphia, P.A.
- Nov, 1995 Pharmacology and Clinical Uses of Sevoflurane. Department of Anesthesiology, St. Joseph's Medical Center, Patterson, N.J.
- Dec, 1995 Future Trends in Pediatric Anesthesia. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Dec, 1995 Difficult Airway Workshop. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Mar, 1996 Pharmacology and Clinical Uses of Sevoflurane. Department of Anesthesiology, New York Downtown Hospital, NY, NY

- May, 1997 Ambulatory Anesthesia for Children with Congenital Heart Disease. Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL
- Dec, 1997 Anesthesia for Pediatric Office-Based Surgery. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Dec, 1997 Pediatric Emergencies. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Mar, 1998 Anesthesia for Children with Congenital Heart Disease. Department of Anesthesiology, Medical College of Virginia, Richmond, VA (Visiting Professor)
- Apr, 1998 Anesthesia for Radiologic Procedures. Annual meeting of the Society for Ambulatory Anesthesia, Boston, MA.
- May, 1998 Anesthesia and the Upper Airway. University of North Carolina, Department of Anesthesiology, Chapel Hill, NC. (Visiting Professor)
- May, 1998 Controversies in Pediatric Dental Sedation, University of North Carolina Department of Anesthesiology, Chapel Hill, NC. (Visiting Professor)
- Oct, 1998 How to Anesthetize Your Baby Brother in Ten Easy Lessons. University of Rochester Saturday Morning High School Science Series, Rochester, NY
- Nov, 1998 Controversies in Pediatric Dental Sedation. Rochester General Hospital, Department of Pediatrics Grand Rounds, Rochester, NY
- Dec, 1998 Controversies in Pediatric Dental Sedation. Strong Memorial Hospital, Department of Pediatrics Grand Rounds, Rochester, NY
- Dec, 1998 Sedation and Anesthesia Outside the Operating Room. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Dec, 1998 Pediatric Emergencies. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- May, 1999 Pediatric Anesthesia Outside the OR. Annual meeting of the Society for Ambulatory Anesthesia. Seattle, WA.
- Dec, 1999 Conscious Sedation. Department of Radiology Grand Rounds, Strong Memorial Hospital, Rochester, NY
- Sep, 2000 Perioperative considerations in former preemies. Annual meeting of the New York State Peri-Anesthesia Nurses Association, Rochester, NY
- Oct, 2000 Pediatric Procedures Out of the Operating Room: Are We Safe Enough? Society for Ambulatory Anesthesia Mid-Year Meeting, San Francisco, CA.
- Oct, 2001 Pediatric Anesthesia Outside the OR. Annual Meeting of the Swiss Society of Anaesthesiology, Lucerne, Switzerland
- Oct, 2001 Pediatric Anesthesia Outside the OR. Grand Rounds, Department of Anaesthesiology, University Hospital, Lausanne, Switzerland (Visiting Professor)

- Nov, 2001 Monitoring and Management of Patients during Sedation. Conscious Sedation course for Dental Residents, University of Rochester School of Medicine and Dentistry. Rochester, NY
- May, 2002 Real World Cases in Pediatric Ambulatory Anesthesia, Annual meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
- Jun, 2002 Pediatric Anesthesia Outside the OR. St. Lukes-Roosevelt Medical Center, NY, NY (Visiting Professor).
- Dec, 2002 The Difficult Pediatric Airway. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Dec, 2002 PBLD - Infant for Craniotomy, Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Feb, 2003 Anesthesia and the Upper Airway. Annual Meeting of Society of Pediatric Anesthesia, Fort Myers, FL.
- Mar, 2003 PBLD - Foreign Body in the Trachea. Annual Meeting of Society of Pediatric Anesthesia, Fort Myers, FL.
- Sep, 2003 The Difficult Pediatric Airway. Grand Rounds, Vanderbilt University, Department of Anesthesiology, Nashville, TN (Visiting Professor).
- Oct, 2003 Real Cases from the MH Hotline: An informal discussion. Vanderbilt University, Department of Anesthesiology, Nashville, TN (Visiting Professor).
- Oct, 2003 Controversies in Malignant Hyperthermia, Cases from the MHAUS Hotline. Annual Meeting of the American Society of Anesthesiologists, San Francisco, CA.
- Nov, 2003 The Difficult Pediatric Airway. Fairfax Hospital Grand Rounds, Fairfax, VA (Visiting Professor).
- Dec, 2004 Pediatric Sedation by Nonanesthesiologists. Postgraduate Assembly of the New York State Society of Anesthesiologists, NY, NY.
- Feb, 2005 Best Articles in Ambulatory Pediatric Anesthesia: 2004. Annual Meeting of the Society of Pediatric Anesthesia. Miami Beach, FL.
- Feb, 2005 PBLD: Anesthesia for Posterior Spinal Fusion. Annual Meeting of the Society of Pediatric Anesthesia. Miami Beach, FL.
- Apr, 2005 The Difficult Pediatric Airway. Adult and Pediatric Anesthesiology 2005: University of Pennsylvania and The Children's Hospital of Philadelphia.
- Oct, 2005 Controversies in Malignant Hyperthermia, Cases from the MHAUS Hotline, Mid-year Meeting of the Society for Ambulatory Anesthesia, Atlanta, GA.
- Oct, 2005 Sedation by Nonanesthesiologists. Annual meeting of the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition, Salt Lake City, UT.
- Oct, 2005 Credentialing Nonanesthesiologists to Provide Pediatric Sedation. Annual meeting of the American Society of Anesthesiologists, Atlanta, GA.
- Feb, 2006 Point / Counterpoint: Anesthesiologist vs. Sedationologist, 44th Clinical Conference in Pediatric Anesthesiology, Pediatric

- Anesthesiology Foundation, Children's Hospital Los Angeles, Anaheim, CA.
- Feb, 2006 Neuromuscular Blocking Drugs: Reversal for All? 44th Clinical Conference in Pediatric Anesthesiology, Pediatric Anesthesiology Foundation, Children's Hospital Los Angeles, Anaheim, CA.
- Feb, 2006 Pediatric Ambulatory Anesthesia in 2006, 44th Clinical Conference in Pediatric Anesthesiology, Pediatric Anesthesiology Foundation, Children's Hospital Los Angeles, Anaheim, CA.
- Apr, 2006 MH-Associated Diseases: Who Really Needs a Non-triggering Technique? Hospital for Special Surgery, Department of Anesthesiology, New York, NY (Visiting Professor).
- May, 2006 Real World Cases in Ambulatory Pediatric Anesthesia, Annual Meeting of the Society for Ambulatory Anesthesia, Washington, DC.
- May, 2006 Cases from the MH Hotline. New York State Society of Anesthesiologists, District 6 Meeting, Rochester, NY (Visiting Professor).
- May, 2006 MH-Associated Diseases: Who Really Needs a Non-triggering Technique? Grand Rounds, University of Rochester Department of Anesthesiology, Rochester, NY.
- Jun, 2006 Anesthesia for Children with Sleep Apnea. International Conference on the Difficult Pediatric Airway, Pittsburgh, PA.
- Jun, 2006 Controversies in Airway Management for Adenotonsillectomy. International Conference on the Difficult Pediatric Airway, Pittsburgh, PA.
- Aug, 2006 Anesthesia and the Pediatric Upper Airway, Department of Anesthesiology, University of Basel, Switzerland (Visiting Professor).
- Aug, 2006 Sedation by Nonanesthesiologists in the U.S., Department of Anesthesiology, University of Basel, Switzerland (Visiting Professor).
- Oct, 2006 Making Your Ambulatory Center Kid-Friendly. Annual Meeting of the American Society of Anesthesiologists, Chicago, IL.
- Oct, 2006 Who Should Sedate Children? Annual Meeting of the American Society of Anesthesiologists, Chicago, IL.
- Oct, 2006 Controversies in Malignant Hyperthermia: Cases From the MHAUS Hotline, Annual Meeting of the American Society of Anesthesiologists, Chicago, IL.
- Feb, 2007 Preoperative Pregnancy Testing. 46th Clinical Conference in Pediatric Anesthesiology of the Children's Hospital of Los Angeles.
- Feb, 2007 Anesthesia and the Pediatric Upper Airway. Digby Leigh Lecture, 46th Clinical Conference in Pediatric Anesthesiology of the Children's Hospital of Los Angeles.
- Feb, 2007 MH-Associated Diseases: Who Really Needs a Non-triggering Technique? 46th Clinical Conference in Pediatric Anesthesiology of the Children's Hospital of Los Angeles.

- Apr, 2007 Sedation by Nonanesthesiologists at The Children's Hospital of Philadelphia, Pediatric Anesthesia Review Course, Philadelphia, PA
- Sep, 2007 Malignant Hyperthermia - Cases from the MHAUS Hotline. Webinar, broadcast on the MHAUS website and archived for future use.
- Sep, 2007 Sedation Services: Current State of the Art. Harvard Medical School Department of Continuing Education: Pediatric Sedation Outside of the Operating Room, Boston, MA
- Sep, 2007 Sedation Related Upper Airway Obstruction: Pathophysiology, Prevention and Treatment. Harvard Medical School Department of Continuing Medical Education: Pediatric Sedation Outside of the Operating Room
- Sep, 2007 Propofol Use by Nonanesthesiologists (panel discussion). Harvard Medical School Department of Continuing Medical Education: Pediatric Sedation Outside of the Operating Room
- Sep, 2007 Sedation with Propofol (Lunchtime Seminar Leader). Harvard Medical School Department of Continuing Medical Education: Pediatric Sedation Outside of the Operating Room.
- Oct, 2007 The Difficult Pediatric Airway. Salzburg Medical Seminars, Salzburg Austria.
- Oct, 2007 Sedation by Nonanesthesiologists in the U.S. Salzburg Medical Seminars, Salzburg Austria.
- Oct, 2007 Moderator, Panel on Pediatric Ambulatory Anesthesia. Annual meeting of the American Society of Anesthesiologists, San Francisco.
- Oct, 2007 Current Trends in Pediatric Ambulatory Anesthesia. Salzburg Medical Seminars, Salzburg Austria.
- Oct, 2007 MH-Associated Diseases: Who Really Needs a Non-triggering Technique? Salzburg Medical Seminars, Salzburg Austria.
- Oct, 2007 Who Does Sedation, Who Should Do Sedation, and How Do We Know the Rate of Adverse Events? Annual meeting of the American Society of Anesthesiologists, San Francisco.
- Nov, 2007 Anesthesia and the Pediatric Upper Airway, 7th Annual Paediatric Anaesthetic Education Day, Barts and The London Children's Hospital
- Nov, 2007 The Difficult Pediatric Airway, 7th Annual Paediatric Anaesthetic Education Day, Barts and The London Children's Hospital
- Apr, 2008 The Children's Hospital of Philadelphia Sedation Service. Presented at the annual Spring meeting of the Society of Pediatric Anesthesia, San Diego, CA.
- May, 2008 The Difficult Pediatric Airway. Resident Lecture Series, Department of Anesthesiology, Medical University of South Carolina (Visiting Professor).
- May, 2008 MH-Associated Diseases: Who Really Needs a Nontriggering Technique? Grand Rounds, Department of Anesthesiology, Medical University of South Carolina (Visiting Professor).

- May, 2008 The Children's Hospital of Philadelphia Non-anesthesiologist Sedation Service. 2nd Annual Pediatric Anesthesiology and Critical Care Medicine Conference, Boston, MA.
- Mar, 2009 Moderator, T(r)opical Shorts, Fundamentals of Pediatric Anesthesiology: Pediatric Anesthesiology for the Generalist. Annual meeting of the Society of Pediatric Anesthesia, Jacksonville, FL.
- Jun, 2009 Sedation and the Pediatric Upper Airway. Presented at the 5th Annual Conference of the Society for Pediatric Sedation, Philadelphia, PA.
- Jun, 2009 The Children's Hospital Sedation Service - Anesthesiology Perspectives. Presented at the 5th Annual Conference of the Society for Pediatric Sedation, Philadelphia, PA
- Sep, 2009 Malignant Hyperthermia Update. Grand Rounds, Pennsylvania Hospital Department of Anesthesiology.
- Oct, 2009 Malignant Hyperthermia and the Ambulatory Patient, Annual Meeting of the American Society of Anesthesiologists, New Orleans.
- Oct, 2009 Malignant Hyperthermia Update. Annual Meeting of the New Jersey Nurse Anesthetist Association.
- May, 2010 The Children's Hospital of Philadelphia Non-anesthesiologist Sedation Service. 4th Annual Pediatric Anesthesiology and Critical Care Medicine Conference, Boston, MA.
- May, 2010 Malignant Hyperthermia and Outpatient Anesthesia. Presented at the Annual Meeting of the Society for Ambulatory Anesthesia, Baltimore, MD.
- Oct, 2010 Controversies in Outpatient Tonsillectomy Management, Annual meeting of the American Society of Anesthesiologists, San Diego.
- Oct, 2010 Malignant Hyperthermia and Ambulatory Surgery, Refresher Course Lecture, Annual Meeting of the American Society of Anesthesiology, San Diego.
- Oct, 2010 Moderator; My Favorite Malpractice Cases, Panel Discussion at the Annual Meeting of the American Society of Anesthesiologists, San Diego.
- Dec, 2010 The Children's Hospital of Philadelphia Pediatric Sedation Service, Destination CME Anesthesia Camp, Puerto Vallarta, Mexico.
- Dec, 2010 Communication Skills that Decrease Malpractice Claims, Destination CME Anesthesia Camp, Puerto Vallarta, Mexico.
- Dec, 2010 Malignant Hyperthermia in the Ambulatory Setting, Destination CME Anesthesia Camp, Puerto Vallarta, Mexico.
- Dec, 2010 The Difficult Pediatric Airway, Destination CME Anesthesia Camp, Puerto Vallarta, Mexico
- Oct, 2011 Malignant Hyperthermia and Ambulatory Surgery, Refresher Course Lecture, Annual Meeting of the American Society of Anesthesiology, Chicago.
- Oct, 2011 Malignant Hyperthermia in the Ambulatory Surgery Center, Annual Meeting of the American Society of Anesthesiology, Chicago.

- Oct, 2011 Bilateral Lower Extremity Compartment Syndrome after Lithotomy Position, Panel on Malpractice Cases, Annual Meeting of the American Society of Anesthesiologists, Chicago.
- Sep, 2012 "MH-Associated Diseases: Who Really Needs a Non-triggering Technique?", Nationwide Children's Hospital Department of Anesthesiology, Columbus, OH (Visiting Professor).
- Oct, 2012 "Anesthetic Management of Children with Obstructive Sleep Apnea", presented at the annual meeting of the Society for Anesthesia and Sleep Medicine, Washington, D.C.
- Oct, 2012 "Malignant Hyperthermia and Ambulatory Surgery", Refresher Course Lecture, Annual Meeting of the American Society of Anesthesiology
- Oct, 2012 "Laryngospasm", Annual Meeting of the American Society of Anesthesiology
- Dec, 2012 "MH-associated Diseases: Who Really Needs a Non-triggering Technique?" Visiting Professor, Department of Anesthesiology, Stony Brook University, NY.
- Oct, 2013 "Malignant Hyperthermia and Ambulatory Surgery", Refresher Course Lecture, Annual Meeting of the American Society of Anesthesiology
- Oct, 2014 Intraoperative Strategies to Ensure Postoperative Safety and Efficient PACU Stay, Panel on Pediatric Adenotonsillectomy: Enhancing Quality and Efficiency; Ensuring Safety, Annual Meeting of the American Society of Anesthesiologists, New Orleans, LA
- Oct, 2014 Is Caudal Block Still the Preferred Regional Technique for Sub-Umbilical Surgery in Pediatric Ambulatory Patients? Panel on Pediatric Ambulatory Challenges, Annual Meeting of the American Society of Anesthesiology, New Orleans, LA
- Oct, 2014 Malignant Hyperthermia and Ambulatory Surgery", Refresher Course Lecture, Annual Meeting of the American Society of Anesthesiology, New Orleans, LA
- Nov, 2014 My Favorite Malpractice Cases: What I've Learned as an Expert Witness. Lecture presented at Hershey Medical Center, Hershey, PA (Visiting Professor)
- Nov, 2014 Malignant Hyperthermia: Update on Susceptibility, Treatment, and Diagnosis. Lecture presented at Hershey Medical Center, Hershey, PA (Visiting Professor)
- Dec, 2014 Panel Presentation: Malignant Hyperthermia: Hot Off the Press. Presented at the Annual Meeting of the NY State Society of Anesthesiologists.
- Jan, 2015 Complications in Pediatric Anesthesia that Matter, 9th Annual Pediatric Anesthesia Review, Duck Key, FL
- Jan, 2015 My Favorite Medical Malpractice Cases: What I've Learned as an Expert Witness, 9th Annual Pediatric Anesthesia Review, Duck Key, FL
- Jan, 2015 How Communication Skills Decrease Malpractice Claims, 9th

- Jan, 2015 Annual Pediatric Anesthesia Review, Duck Key, FL
Malignant Hyperthermia in Children: Who Really Needs a Non triggering Technique, 9th Annual Pediatric Anesthesia Review, Duck Key, FL
- Jan, 2015 Controversies in Pediatric Sedation: Who's Pushing Propofol?, 9th Annual Pediatric Anesthesia Review, Duck Key, FL
- Jan, 2015 Controversies in Outpatient Pediatric Tonsillectomy Management, 9th Annual Pediatric Anesthesia Review, Duck Key, FL
- Jan, 2015 The Difficult Pediatric Airway, 9th Annual Pediatric Anesthesia Review, Duck Key, FL
- Oct, 2015 Controversies in Outpatient Tonsillectomy and Adenoidectomy, 21st Annual Advances in Physiology & Pharmacology in Anesthesia and Critical Care. Wake Forest Department of Anesthesiology.
- Oct, 2015 My Favorite Malpractice Cases: Lessons from an Expert Witness in Pediatric Anesthesia. 21st Annual Advances in Physiology & Pharmacology in Anesthesia and Critical Care. Wake Forest Department of Anesthesiology.
- Oct, 2015 Top Five Ways to Avoid a Lawsuit. 21st Annual Advances in Physiology & Pharmacology in Anesthesia and Critical Care. Wake Forest Department of Anesthesiology.
- Oct, 2015 Point Counterpoint: Succinylcholine for Emergency Use Only Does Not Require Onsite Dantrolene. Annual Meeting of the American Society of Anesthesiologists, San Diego, CA.
- Nov, 2015 My Favorite Malpractice Cases: What I've Learned as an Expert Witness in Pediatric Anesthesia. Visiting Professor, Vanderbilt University Department of Anesthesiology.
- Nov, 2015 Update on Susceptibility, Diagnosis, and Treatment of Malignant Hyperthermia, Visiting Professor, Vanderbilt University Department of Anesthesiology.
- Dec, 2015 MH Susceptible Diseases: Who Really Needs a Nontriggering Technique? Postgraduate Assembly of the New York State Society of Anesthesiologists, New York, NY
- Jan, 2016 "How to Avoid Medication Errors in the OR", Northwest Anesthesia Seminars Anesthesia Review, Paradise Island, Bahamas
- Jan, 2016 "Controversies in Outpatient Tonsillectomy and Adenoidectomy", Lehigh Valley Department of Anesthesiology 6th Annual Winter Retreat Conference.
- Jan, 2016 Update in Susceptibility, Diagnosis, and Treatment of Malignant Hyperthermia. Northwest Anesthesia Seminars Anesthesia Review, Paradise Island, Bahamas
- Jan, 2016 "How to Avoid Medication Errors in the OR", Lehigh Valley Department of Anesthesiology 6th Annual Winter Retreat Conference.
- Jan, 2016 Controversies in Pediatric Sedation: Who's Pushing Propofol? Northwest Anesthesia Seminars Anesthesia Review, Paradise Island, Bahamas

- Jan, 2016 "Controversies in Outpatient Pediatric Tonsillectomy Management", Northwest Anesthesia Seminars Anesthesia Review, Paradise Island, Bahamas
- Jan, 2016 My Favorite Medical Malpractice Cases: What I've Learned as an Expert Witness, Northwest Anesthesia Seminars Anesthesia Review, Paradise Island, Bahamas
- Jan, 2016 "The Difficult Pediatric Airway", Northwest Anesthesia Seminars Anesthesia Review, Paradise Island, Bahamas
- Apr, 2016 The Future of Universal Connectors in Pediatric Anesthesia, Annual Meeting of the Society of Pediatric Anesthesia, Colorado Springs, CO
- May, 2016 Update on Susceptibility, Diagnosis, and Treatment of Malignant Hyperthermia. American Society of Dentist Anesthesiologists 2016 Annual Scientific Session, Denver, CO
- Jun, 2016 "An anesthesia perspective: Tackling medication safety challenges", ISMP Webinar.
- Sep, 2016 "The Future of Medication Safety in the Operating Room" IARMM 5th World Congress of Clinical Safety, Boston, MA
- Nov, 2016 "The Future of Medication Safety in the OR", Albany Medical Center Department of Anesthesiology, Albany, NY
- Nov, 2016 "My Favorite Malpractice Cases: What I've Learned as an Expert Witness", Albany Medical Center Department of Anesthesiology, Albany, NY
- Nov, 2016 "Update on Susceptibility, Diagnosis, and Treatment of Malignant Hyperthermia", New York State Society of Anesthesiologists, Albany, NY.
- Dec, 2016 "The Future of Medication Safety in the OR", Wayne State Medical Center Department of Anesthesiology, Detroit, MI
- Dec, 2016 "My Favorite Malpractice Cases: What I've Learned as an Expert Witness", Wayne State Medical Center Department of Anesthesiology, Detroit, MI
- Mar, 2017 "The Difficult Pediatric Airway", Northwest Anesthesia Seminars Anesthesia Review, Virginia Beach, VA
- Mar, 2017 "Caudal vs. Peripheral Block for Pediatric Sub-Umbilical Surgery", Northwest Anesthesia Seminars Anesthesia Review, Virginia Beach, VA
- Mar, 2017 "The Future of Medication Safety in the OR", Northwest Anesthesia Seminars Anesthesia Review, Virginia Beach, VA
- Mar, 2017 "My Favorite Medical Malpractice Cases: What I've Learned as an Expert Witness", Northwest Anesthesia Seminars Anesthesia Review, Virginia Beach, VA
- Mar, 2017 "Update in Susceptibility, Diagnosis, and Treatment of Malignant Hyperthermia.", Northwest Anesthesia Seminars Anesthesia Review, Virginia Beach, VA
- Mar, 2017 "Laryngospasm: Prevention, Detection, and Treatment", Northwest Anesthesia Seminars Anesthesia Review, Virginia Beach, VA

- Mar, 2017 "Controversies in Outpatient Pediatric Tonsillectomy Management", Northwest Anesthesia Seminars Anesthesia Review, Virginia Beach, VA
- Mar, 2017 "My Favorite Malpractice Cases: What I've Learned as an Expert Witness in Pediatric Anesthesia". Annual Meeting of the Mexican Society of Pediatric Anesthesiologists, San Cristobal de las Casas, Chiapas, Mexico
- Mar, 2017 Round Table Discussant on Emergency Airway Management, Annual Meeting of the Mexican Society of Pediatric Anesthesiologists, San Cristobal de las Casas, Chiapas, Mexico
- Mar, 2017 Difficult Airway Workshop Tutor, Annual Meeting of the Mexican Society of Pediatric Anesthesiologists, San Cristobal de las Casas, Chiapas, Mexico
- Mar, 2017 "Malignant Hyperthermia: Update on Diagnosis, Susceptibility, and Treatment". Annual Meeting of the Mexican Society of Pediatric Anesthesiologists, San Cristobal de las Casas, Chiapas, Mexico
- Apr, 2017 "Malignant Hyperthermia: Update in Diagnosis, Susceptibility, and Treatment" Visiting Professor Grand Rounds, Stony Brook Department of Anesthesiology
- Apr, 2017 "My Favorite Malpractice Cases: What I've Learned as an Expert Witness in Pediatric Anesthesia" Visiting Professor Resident Lecture Series, Stony Brook Department of Anesthesiology
- Apr, 2017 "The Future of Medication Safety in the OR", The IHI/BMJ International Forum on Quality and Safety in Healthcare, London, England
- Jun, 2017 "The Future of Medication Safety in the OR", Visiting Professor Grand Rounds, University of Rochester Department of Anesthesiology
- Jun, 2017 "My Favorite Malpractice Cases: What I've Learned as an Expert Witness in Pediatric Anesthesia", Visiting Professor, University of Rochester Department of Anesthesiology
- Aug, 2017 "The Future of Medication Safety in the OR", Grand Rounds, Jefferson University Hospital Department of Anesthesiology
- Sep, 2017 "Medication Safety: Drug Diversion within Health Care Facilities Involving Anesthesia Professionals", Anesthesia Patient Safety Foundation Conference, Phoenix, AZ
- Oct, 2017 "The Role of Anesthesiologists in the Identification and Management of Safe Opioid Practices", Symposium on Opioid Safety, ASA meeting, Boston, MA
- Dec, 2017 "The Sunshine Act and Open Payments", First Annual Conference of the Philadelphia Pediatric Anesthesia Consortium
- Mar, 2018 "Malignant Hyperthermia", Annual meeting of the Mexican Society of Pediatric Anesthesia, Mexico City.
- Mar, 2018 "The Future of Medication Safety in the OR", Annual meeting of the Mexican Society of Pediatric Anesthesia, Mexico City.
- Mar, 2018 "Complications in Pediatric Anesthesia", Annual meeting of the

	Mexican Society of Pediatric Anesthesia, Mexico City.
Sep, 2018	"ISMP Perspectives on Standardization of Syringe Labels and Vial Colors", Anesthesia Patient Safety Foundation Annual Meeting, Phoenix.
Dec, 2018	"Medication Risk in Perioperative and Procedural Areas: An Anesthesiologist's Perspective", American Society of Hospital Pharmacists Annual Meeting, Anaheim, CA
Dec, 2018	"Identifying the MH Susceptible Patient: _Are we Ready for Genetic Testing?" Postgraduate Assembly of the NY State Society of Anesthesiologists, New York, NY.
Mar, 2019	"Abuse Deterrent Opioids: The Answer to an Epidemic or Wolves in Sheep's Clothing?" Annual winter meeting of the Society for Pediatric Anesthesia, Houston, TX.
Mar, 2019	"Use of the Open Payments Database to Detect Illegal Physician Prescribing Patterns". Association of American Medical Colleges Forum on Conflict of Interest in Academe, Philadelphia, PA
Mar, 2019	"Malignant Hyperthermia: Update on Susceptibility, Diagnosis, and Treatment". Visiting Professor Grand Rounds, The Hospital for Special Surgery, New York, NY
May, 2019	"My Favorite Malpractice Cases" Visiting Professor, University Hospitals of Cleveland
May, 2019	"Malignant Hyperthermia", Visiting Professor Grand Rounds, University Hospitals of Cleveland
May, 2019	"Pediatric Anesthesia Key Words" Visiting Professor CA-1 conference, University Hospitals of Cleveland
May, 2019	"Abuse Deterrent Opioids", Visiting Professor Senior Resident Conference, University Hospitals of Cleveland
May, 2019	"Use of the Open Payments Database to Detect Illegal Physician Prescribing Patterns", Visiting Professor Senior Resident Conference, University Hospitals of Cleveland.
Jun, 2019	"30 Years of Experience in Preventing Medication Errors" Presented at the Inaugural Conference of the Israeli Chapter of the International Society of Pharmacovigilance, Tel Aviv, IL
Jun, 2019	"ISMP 2017 Self-assessment Tools for Antithrombotics: _Quality, Research and Education Screening _the Gaps, Coordinating Stakeholders", Presented at the Inaugural Conference of the Israeli Chapter of the International Society of Pharmacovigilance, Tel Aviv, IL

Organizing Roles in Scientific Meetings:

Dec, 1992	Postgraduate Assembly of the New York State Society of Anesthesiologists - organizing committee on miniworkshops. New York, NY
1993	Society for Ambulatory Anesthesia, Annual and Mid-Year meetings (organizing committee)
Dec, 1993	Postgraduate Assembly of the New York State Society of

Anesthesiologists - organizing committee on miniworkshops.
New York, NY

Dec, 1994 Postgraduate Assembly of the New York State Society of
Anesthesiologists - organizing committee on miniworkshops.
New York, NY

1994 Society for Ambulatory Anesthesia, Annual and Mid-Year meetings
(organizing committee)

Dec, 1995 Postgraduate Assembly of the New York State Society of
Anesthesiologists - organizing committee on miniworkshops.
New York, NY

1995 Society for Ambulatory Anesthesia, Annual and Mid-Year meetings
(organizing committee)

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(organizing committee)

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Anesthesiologists - organizing committee on miniworkshops.
New York, NY

Dec, 1997 Postgraduate Assembly of the New York State Society of
Anesthesiologists - organizing committee on miniworkshops.
New York, NY

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New York, NY

1999 Society for Ambulatory Anesthesia, Annual and Mid-Year meetings
(organizing committee)

Dec, 2000 Postgraduate Assembly of the New York State Society of
Anesthesiologists - organizing committee on miniworkshops.
New York, NY

2000 Society for Ambulatory Anesthesia, Annual and Mid-Year meetings
(organizing committee)

2001 Society for Ambulatory Anesthesia, Annual and Mid-Year meetings
(organizing committee)

2002 Society for Ambulatory Anesthesia, Annual and Mid-Year meetings
(organizing committee)

2003 Society for Ambulatory Anesthesia, Annual and Mid-Year meetings
(organizing committee)

May, 2004 Society for Ambulatory Anesthesia annual meeting (organizing
committee).
Seattle, WA

- Oct, 2004 Society for Ambulatory Anesthesia Midyear Meeting. Chair: Organized the annual one-day symposia on Anesthesia for Ambulatory Anesthesia (program located at <http://www.sambahq.org/professional-info/mid-year-meeting-info.html>).
Las Vegas, NV
- May, 2005 Society for Ambulatory Anesthesia annual meeting (organizing committee).
Scottsdale, AZ
- Oct, 2005 Society for Ambulatory Anesthesia, Midyear Meeting. Chair: Organized the annual one-day symposia on Anesthesia for Ambulatory Anesthesia (program located at <http://www.sambahq.org/professional-info/mid-year-meeting-info.html>).
New Orleans, LA
- May, 2006 Society for Ambulatory Anesthesia annual meeting (organizing committee).
Washington, DC
- Oct, 2006 Society for Ambulatory Anesthesia mid-year meeting (organizing committee).
Chicago, IL
- Sep, 2007 Conference Organizer: Genetic Basis of Malignant Hyperthermia. Two-day symposium on developing strategies for genetic testing of MH-susceptible patients.
Philadelphia, PA
- Oct, 2007 Moderator, Poster presentations, Section on Pediatric Pain. Annual meeting of the American Society of Anesthesiologists.
San Francisco
- Oct, 2007 Moderator, Panel on Pediatric Ambulatory Anesthesia. Annual meeting of the American Society of Anesthesiologists.
San Francisco
- Oct, 2007 Course Director, Pediatric Anesthesia & Critical Care. Created curriculum and led week-long meeting: 31 participants from Eastern Europe. 19 lectures from 5 faculty members, 3 case presentation workshops, many roundtable discussions.
Salzburg, Austria
- Apr, 2008 Chair and Program Creator: MH-Associated Diseases, Who Needs a Non-triggering Technique?
SPA/MHAUS Symposium at the annual Spring meeting of the Society of Pediatric Anesthesia, San Diego, CA. Nine lecturers, approx 200 attendees.
http://www.pedsanesthesia.org/meetings/2008winter/spa08_program.pdf
- Sep, 2014 Organizer and Director, International Strategy Meeting of Experts in Malignant Hyperthermia
Chicago, IL

Sep, 2016	Organizer and Director, International Strategy Meeting of Experts in Malignant Hyperthermia Chicago, IL
Dec, 2017	Organizer and Chair, Inaugural meeting of the Philadelphia Pediatric Anesthesia Consortium: Cutting Edge Topics in Pediatric Anesthesia (https://chop.cloud-cme.com/assets/chop/data/18CME0179%20CME%20Anesthesia%202017%20webonly.pdf) Philadelphia, PA
Jun, 2019	Co-organizer, Inaugural Meeting of the Israeli Chapter of the International Society of Pharmacovigilance Tel Aviv, Israel

Grants:**Current:**

Perioperative Medication Safety Self Assessment for Hospitals and Ambulatory Surgical Centers (ASCs) and Targeted Risk-Reduction Tool Development, US Food and Drug Administration (FDA), FDA BAA-19-00123, 9/2019-6/2021 (Cohen, M.R., PI), \$100,217/annual direct costs, 5% effort (Role in grant: Key Personnel)

Past:

Clinical study using mainstream capnometer for non-intubated patient requiring oxygen administration., Nihon-Kohden, 2/2013-2/2014 (Litman, R.S., PI: Nadkarni, V., Co-Investigator), \$116,500/annual direct costs, 5% effort (Role in grant: P.I.)

Mask Anesthesia for Pediatric Surgery, Baxter Healthcare, 1/2004-6/2004 (RSL, PI), \$56,000/annual direct costs, 20% effort (Role in grant: PI)

Oral mandibular advancement device treatment of obstructive sleep apnea., NIH, 5M01RR000073-380494, 9/2002-8/2003 (Samuel Kuna, M.D., PI), \$31,689/annual direct costs, 5% effort (Role in grant: Consultant)

The Effects and Interaction of Sedative Doses of Intravenous Midazolam or Propofol, and Hypoxia, on Upper Airway Obstruction, International Anesthesia Research Society Clinical Scholar Research Award, 7/2002-6/2004 (J. Russell Norton, M.D., PI), \$0/annual direct costs, 2% effort (Role in grant: Collaborator)

Pharmacodynamics and Pharmacokinetics of Propofol in a Medium-Chain-Triglyceride Emulsion, RTP Pharma, Inc., 9/2001-12/2001 (Denham S. Ward, M.D., Ph.D., PI), \$0/annual direct costs, 3% effort (Role in grant: Sub-investigator)

Duragesic (Fentanyl) Patch for Chronic Pain in Pediatric Patients, Janssen Pharmaceutical Products, 1/2000-1/2000 (RSL, PI), \$18,750/annual direct costs, 10% effort (Role in grant: PI)

Development of a Pediatric Sedation/Analgesia Service, The Mayday Fund, 9/1997-12/1997 (RSL, PI), \$27,564/annual direct costs, 20% effort (Role in grant: PI)

Remifentanyl for Sedation and Analgesia During Short, Painful, Procedures in Children during Emergency and Oncologic Procedures, Glaxo-Wellcome, 1/1997-12/1997 (RSL, PI), \$44,982/annual direct costs, 20% effort (Role in grant: PI)

Breathing Patterns During Conscious and Deep Sedation in Children, Foundation for Anesthesia Education and Research, 7/1995-6/1996 (RSL, PI), \$25,000/annual direct costs, 40% effort (Role in grant: PI)

Efficacy and Safety of Propofol When Used to Treat Postoperative Emesis in Children, Society of Ambulatory Anesthesia, 7/1993-6/1994 (RSL, PI), \$10,000/annual direct costs, 10% effort (Role in grant: PI)

Bibliography:

Research Publications, peer reviewed (print or other media):

1. Litman RS., Keon TP., Campbell FW.: Termination of supraventricular tachycardia with adenosine in a healthy child undergoing anesthesia. *Anesthesia & Analgesia* 73(5): 665-7, Nov 1991.
2. Litman RS., Keon TP.: Postintubation croup in children. *Anesthesiology* 75(6): 1122-3, Dec 1991.
3. Litman RS., Shapiro BS.: Oral patient-controlled analgesia in adolescents. *Journal of Pain & Symptom Management* 7(2): 78-81, Feb 1992.
4. Litman RS., Voisine R.: Obstetric anaesthesia and spinal cord injury. *Canadian Journal of Anaesthesia* 39(10): 1117, Dec 1992.
5. Patt RB., Lustik S., Litman RS.: The use of transdermal fentanyl in a six-year-old patient with neuroblastoma and diffuse abdominal pain. *Journal of Pain & Symptom Management* 8(5): 317-9; discussion 320-3, Jul 1993.
6. Litman RS., Perkins FM., Dawson SC.: Parental knowledge and attitudes toward discussing the risk of death from anesthesia. *Anesthesia & Analgesia* 77(2): 256-60, Aug 1993.
7. Litman RS., Wu CL., Catanzaro FA.: Ondansetron decreases emesis after tonsillectomy in children. *Anesthesia & Analgesia* 78(3): 478-81, Mar 1994.
8. Litman RS., Perkins FM.: Atlantoaxial subluxation after tympanomastoidectomy in a child with trisomy 21. *Otolaryngology - Head & Neck Surgery* 110(6): 584-6, Jun 1994.
9. Litman RS., Younan MM., Patt RB., Ward DS.: Postoperative recurrent paralysis in an infant after mivacurium infusion. *Canadian Journal of Anaesthesia* 41(8): 758-9,

Aug 1994.

10. Litman, R.S., Wu, C.L., Quinlivan, J.K.: Gastric volume and pH in infants fed clear liquids and breast milk prior to surgery.[accompanied by an editorial] Anesth Analg 79(3): 482-5, Sep 1994.
11. Wu, C.L., Litman, R.S.: Anesthetic management of a child with the Ellis-van Creveld syndrome: A case report. Paediatric Anaesthesia 4: 335-7, 1994.
12. Litman RS., Wu CL., Lee A., Griswold JD., Voisine R., Marshall C.: Prevention of emesis after strabismus repair in children: a prospective, double-blinded, randomized comparison of droperidol versus ondansetron. Journal of Clinical Anesthesia 7(1): 58-62, Feb 1995.
13. Roberts WA., Maniscalco WM., Cohen AR., Litman RS., Chhibber A.: The use of capnography for recognition of esophageal intubation in the neonatal intensive care unit. Pediatric Pulmonology 19(5): 262-8, May 1995.
14. Litman RS., Zerngast BA., Perkins FM.: Preoperative evaluation of the cervical spine in children with trisomy-21: results of a questionnaire study. Paediatric Anaesthesia 5(6): 355-61, 1995.
15. Litman, R.S., Berger, A.A., Zerngast, B.A., Chhibber, A.: Low-dose propofol for the treatment of postoperative emesis in children. Ambulatory Surgery 3: 123-5, 1995.
16. Litman RS., Berkowitz RJ., Ward DS.: Levels of consciousness and ventilatory parameters in young children during sedation with oral midazolam and nitrous oxide.[accompanied by an editorial] Archives of Pediatrics & Adolescent Medicine 150(7): 671-5, Jul 1996.
17. Litman RS., Zerngast BA.: Cardiac arrest after esmolol administration: a review of acute beta-blocker toxicity. Journal of the American Osteopathic Association 96(10): 616-8, Oct 1996.
18. Litman RS.: Airway obstruction after oral midazolam. Anesthesiology 85(5): 1217-8, Nov 1996.
19. Litman RS., Berger AA., Chhibber A.: An evaluation of preoperative anxiety in a population of parents of infants and children undergoing ambulatory surgery. Paediatric Anaesthesia 6(6): 443-7, 1996.
20. Litman RS.: Apnea and oxyhemoglobin desaturation after intramuscular ketamine administration in a 2-year-old child. American Journal of Emergency Medicine 15(5): 547-8, Sep 1997.

21. Litman RS., Kottra JA., Berkowitz RJ., Ward DS.: Breathing patterns and levels of consciousness in children during administration of nitrous oxide after oral midazolam premedication. *Journal of Oral & Maxillofacial Surgery* 55(12): 1372-7; discussion 1378-9, Dec 1997.
22. Litman RS., Kottra JA., Verga KA., Berkowitz RJ., Ward DS.: Chloral hydrate sedation: the additive sedative and respiratory depressant effects of nitrous oxide. *Anesthesia & Analgesia* 86(4): 724-8, Apr 1998.
23. Litman RS., Kottra JA., Berkowitz RJ., Ward DS.: Upper airway obstruction during midazolam/nitrous oxide sedation in children with enlarged tonsils. *Pediatric Dentistry* 20(5): 318-20, Sep-Oct 1998.
24. Litman RS, Berkowitz RJ, Ward DS. : Defining levels of sedation in pediatric patients (reply). *Anesthesia and Analgesia* 87: 1454-5, 1998.
25. Carbone J., Litman RS.: Psychogenic stridor: a cause of acute upper airway obstruction. *Journal of the American Osteopathic Association* 99(4): 209-10, Apr 1999.
26. Litman RS.: Conscious sedation with remifentanyl and midazolam during brief painful procedures in children. *Archives of Pediatrics & Adolescent Medicine* 153(10): 1085-8, Oct 1999.
27. Litman, R.S.: Tracheal compression caused by a double aortic arch. *American Journal of Anesthesiology* 26: 281, 1999.
28. Litman RS.: Conscious sedation with remifentanyl during painful medical procedures. *Journal of Pain & Symptom Management* 19(6): 468-71, Jun 2000.
29. Litman RS., Ponnuri J., Trogan I.: Anesthesia for tracheal or bronchial foreign body removal in children: an analysis of ninety-four cases. *Anesthesia & Analgesia* 91(6): 1389-91, TOC, Dec 2000.
30. Haber GW., Litman RS.: Generalized tonic-clonic activity after remifentanyl administration. *Anesthesia & Analgesia* 93(6): 1532-3, Dec 2001.
31. Litman RS., Hayes JL., Basco MG., Schwartz AR., Bailey PL., Ward DS.: Use of dynamic negative airway pressure (DNAP) to assess sedative-induced upper airway obstruction. *Anesthesiology* 96(2): 342-5, Feb 2002.
32. Iannoli ED., Litman RS.: Tension pneumothorax during flexible fiberoptic bronchoscopy in a newborn. *Anesthesia & Analgesia* 94(3): 512-3, Mar 2002.
33. Litman RS., Weissend EE., Shrier DA., Ward DS.: Morphologic changes in the upper airway of children during awakening from propofol administration.

Anesthesiology 96(3): 607-11, Mar 2002.

34. Litman RS., Kottra JA., Gallagher PR., Ward DS.: Diagnosis of anesthetic-induced upper airway obstruction in children using respiratory inductance plethysmography. *Journal of Clinical Monitoring & Computing* 17(5): 279-85, Jul 2002.
35. Ward DS., Norton JR., Guivarc'h PH., Litman RS., Bailey PL.: Pharmacodynamics and pharmacokinetics of propofol in a medium-chain triglyceride emulsion. *Anesthesiology* 97(6): 1401-8, Dec 2002.
36. Litman RS., Weissend EE., Shibata D., Westesson PL.: Developmental changes of laryngeal dimensions in unparalyzed, sedated children. *Anesthesiology* 98(1): 41-5, Jan 2003.
37. Schaefer, T.C., Litman, R.S.: Airway management of a patient with a tracheal mass. *Internet Journal of Anesthesiology* 6, 2003.
38. Cladis FP., Litman RS.: Transient cardiovascular toxicity with unintentional intravascular injection of 3% 2-chloroprocaine in a 2-month-old infant. *Anesthesiology* 100(1): 181-3, Jan 2004.
39. Litman RS.: Propofol and pediatric sedation. *Annals of Emergency Medicine* 44(2): 184; author reply 184-5, Aug 2004.
40. Cucchiario G., Markowitz SD., Kaye R., Adzick NS., Litman RS., Stanley CA., Watcha MF.: Blood glucose control during selective arterial stimulation and venous sampling for localization of focal hyperinsulinism lesions in anesthetized children. *Anesthesia & Analgesia* 99(4): 1044-8, Oct 2004.
41. Cladis F, Litman RS.: Transient cardiovascular toxicity with unintentional intravascular injection of 3% 2-chloroprocaine in a neonate (reply). *Anesthesiology* 101: 1036, 2004.
42. Litman RS., Wake N., Chan LM., McDonough JM., Sin S., Mahboubi S., Arens R.: Effect of lateral positioning on upper airway size and morphology in sedated children. *Anesthesiology* 103(3): 484-8, Sep 2005.
43. Litman RS., McDonough JM., Marcus CL., Schwartz AR., Ward DS.: Upper airway collapsibility in anesthetized children. *Anesthesia & Analgesia* 102(3): 750-4, Mar 2006.
44. Sadhasivam S., Litman RS.: Pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections - anesthetic implications and literature review. *Paediatric Anaesthesia* 16(5): 573-7, May 2006.

45. Litman, R.S., Flood, C.D., Kaplan, R., Kim, Y.L., Tobin, J.R.: Postoperative Malignant Hyperthermia: An Analysis of Cases from the North American Malignant Hyperthermia Registry. *Anesthesiology* 109(5): 825-829, November 2008.
46. Cook-Sather, S.D., Gallagher, P.R., Kruge, L.E., Beus, J.M., Ciampa, B.P., Welch, K.C., Shah-Hosseini, S., Choi, J.S., Pachikara, R., Minger, K., Litman, R.S., Schreiner, M.S.: Overweight/Obesity and Gastric Fluid Characteristics in Pediatric Day Surgery: Implications for Fasting Guidelines and Pulmonary Aspiration Risk. *Anesth Analg* 109: 727-736, September 2009.
47. Schleelein, L.E., Litman, R.S.: Hyperthermia in the pediatric intensive care unit - is it malignant hyperthermia? *Pediatric Anesthesia* 19(11): 1113-1118, November 2009.
48. John E. Fiadjoe, Paul A. Stricker, Rebecca S. Hackell, Abdul Salam, Harshad Gurnaney, Mohamed A. Rehman, and Ronald S. Litman: The Efficacy of the Storz Miller 1 Video Laryngoscope in a Simulated Infant Difficult Intubation. *Anesth Analg* 108: 1783-1786, 2009
49. Litman, R.S., Soin, K., Salam, A.: Chloral Hydrate Sedation in Term and Preterm Infants: An Analysis of Efficacy and Complications. *Anesth Analg* 110(3): 739-46, March 2010.
50. Gencorelli, F.J., Fields, R.G., Litman, R.S.: Complications during rapid sequence induction of general anesthesia in children: a benchmark study. *Pediatric Anesthesia* 20(5): 421-424, May 2010.
51. Stricker, P.A., Gurnaney, H.G., Litman, R.S.: Anesthetic management of children with an anterior mediastinal mass. *J Clin Anesth* 22: 159-163, May 2010.
52. Sutton, R.M., Niles, D., Nysaetherc, J., Stavlandc, M., Thomas, M., Ferry, S., Bishnoia, R., Litman, R.S., Allen, J., Srinivasan, V., Berg, R.A., Nadkarni, V.M.: Effect of residual leaning force on intrathoracic pressure during mechanical ventilation in children. *Resuscitation* 81(7): 857-860, July 2010.
53. Fields Ryan G, Gencorelli Frank J, Litman Ronald S: Anesthetic management of the pediatric bleeding tonsil. *Paediatric anaesthesia* 20(11): 982-6, Nov 2010.
54. Roberts, K., Srinivasan, V., Niles, D.E., Eilevstjønnd, J., Tyler, L., Boyle, L., Bishnoi, R., Ferry, S., Nysætherd, J., Stavlandd, M., Litman, R.S., Helfaer, M., Nadkarni, V.: Does change in thoracic impedance measured via defibrillator electrode pads accurately detect ventilation breaths in children? *Resuscitation* 81: 1544-9, November 2010.
55. Fiadjoe, J.E., Litman, R.S.: Difficult tracheal intubation: Looking to the past to

- determine the future (Reply to Letter). *Anesthesiology* 118: 463, February 2013.
56. Richardson, M., Ikeda, A., Isono, S., Litman, R.S.: Difficult Mask Ventilation and Muscle Paralysis (Letter to the Editor, In Reply). *Anesthesiology* 118: 994-996, April 2013.
57. Ambardekar, A.P., Litman, R.S., Schwartz, A.J.: "Stay, Give Me Your Paw." The Benefits of Family-Centered Care. *Anesthesia & Analgesia* 116: 1314-1316, June 2013.
58. Cohen, A.R., Couto, J., Cummings, J.J., Johnson, A., Joseph, G., Kaufman, B.A., Litman, R.S., Menard, M.K., Moldenhauer, J.S., Pringle, K.C., Schwartz, M.Z., Walker, W.O., Warf, B.C., Wax, J.R.: Position statement on fetal myelomeningocele repair. *Am J Obstet Gynecol* 210(2): 107-11, February 2014.
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60. Cripe, C.C., Patel, A.R., Markowitz, S.D., Behringer, T.S., Litman, R.S.: Supraventricular tachycardia during pediatric anesthesia: a case series and qualitative analysis. *Journal of Clinical Anesthesia* 26: 257-63, June 2014.
61. Shaw, R.E., Litman, R.S.: Medication Safety in the Operating Room: A Survey of Preparation Methods and Drug Concentration Consistencies in Children's Hospitals in the United States. *The Joint Commission Journal on Quality and Patient Safety* 40(10): 471-5, October 2014.
62. Sesok-Pizzini, D.A., Tanhehco1, Y.C., Savage, C., Blair, P., Friedman, D., Litman, R.S., and Schwartz, A.J.: Development of a Pediatric Transfusion Medicine Teaching Curriculum for Pediatric Anesthesiology Fellows. *Hematology & Transfusion International Journal* 1(1): 1-6, January 2015.
63. Dexter, F., Rosenberg, H., Epstein, R.H., Semo, J.J., and Litman, R.S.: Implications of National Anesthesia Workload on the Staffing of a Call Center: The Malignant Hyperthermia Consultant Hotline. *Anesth Analg Case Reports* 5: 43-6, August 2015.
64. Fiadjoe John Edem, Nishisaki Akira, Jagannathan Narasimhan, Hunyady Agnes I, Greenberg Robert S, Reynolds Paul I, Matuszczak Maria E, Rehman Mohamed A, Polaner David M, Szmuk Peter, Nadkarni Vinay M, McGowan Francis X, Litman Ronald S, Kovatsis Pete G: Airway management complications in children with difficult tracheal intubation from the Pediatric Difficult Intubation (PeDI) registry: a prospective cohort analysis. *The Lancet. Respiratory medicine* 4(1): 37-48, Jan 2016.

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