

Avery Tung, M.D.

The University of Chicago
Department of Anesthesia and Critical Care
MC 4028
5841 S Maryland Ave
Chicago, IL 60637-1234
Office: (773)-702-3460
Fax: (773)-702-6179 FAX
Email: atung@dacc.uchicago.edu
Updated 11/30/17

ACADEMIC APPOINTMENTS

1995-2002 Assistant Professor, Department of Anesthesia and Critical Care, University of Chicago
2002-2009 Associate Professor, Department of Anesthesia and Critical Care, University of Chicago
2009-present Professor, Department of Anesthesia and Critical Care, University of Chicago

ACADEMIC TRAINING

1981-1985 A.B., Chemistry. Harvard University, Cambridge, MA
1986-1990 M.D. University of Chicago Pritzker School of Medicine, Chicago IL
1990-1991 Internship (Medicine), University of California San Francisco, San Francisco CA
1991-1994 Residency (Anesthesia), University of California San Francisco, San Francisco CA

1994-1995 Fellowship (Critical Care) Stanford University, Palo Alto, CA

BOARD CERTIFICATION AND LICENSURE

1995 American Board of Anesthesia
1997 Subspecialty certification in Critical Care
1997 Advanced Burn Life Support
2004 Certified, Perioperative Transesophageal Echocardiography
2016 Recertified, Advanced Perioperative Transesophageal Echocardiography

SCHOLARSHIP

(a) Peer-reviewed publications in the primary literature, exclusive of abstracts:

1. Hynson JM, Tung A. Complete airway obstruction during arthroscopic shoulder surgery (Case Report). *Anesth Analg* 76:875-878, 1993

2. Tung A, Lynch J, McDade W, Moss J: A new rapid assay for measuring cyanide in blood. *Anesth Analg* 85:1045-1051, 1997
3. Tung A, Jacobsohn E: A case of nonoliguric renal failure after general anesthesia with sevoflurane and desflurane. *Anesth Analg* 85:1407-9, 1997
4. Tung A, Tadimeti L, Caruana-Montaldo B, Atkins PM, Mion LC, Palmer RM, Slomka J, Mendelson W. The relationship of sedation to deliberate self-extubation. *J. Clin Anesth* 2001;13:24-9
5. Tung A, Lynch JP, Mendelson W. Prolonged sedation in the rat does not result in sleep deprivation. *Anesth Analg* 2001;92:1232-6
6. Tung A, Bluhm B, Mendelson WB. The hypnotic effect of propofol in the medial preoptic area of the rat. *Life Sciences* 2001;69:855-62
7. O'Connor MF, Daves SM, Tung A, Cook RI, Thisted R, Apfelbaum J. BIS monitoring to prevent awareness during general anesthesia. *Anesthesiology* 2001;94:520-2
8. Tung A, Bluhm B, Mendelson WB. Sleep inducing effects of propofol microinjection into the medial preoptic area are blocked by flumazenil. *Brain Research* 2001;908:155-60
9. Morgan S, Kestner JJ, Hall JB, Tung A. Modification of a critical care ventilator for use during magnetic resonance imaging. *Resp Care* 2002;47:61-8
10. Tung A, Lynch JP, Roizen MF. Use of the BIS monitor to detect onset of naturally occurring sleep. *J. Clin Monitoring and Computing* 2002;17:37-42
11. Tung A, Morgan S. Modeling the effect of progressive endotracheal tube occlusion on tidal volume in pressure control mode. *Anesth Analg* 2002;95:192-7
12. Tung A, Szafran M, Bluhm B, Mendelson WB. Sleep deprivation potentiates the onset and duration of loss of righting reflex induced by propofol and isoflurane. *Anesthesiology* 2002;97:906-11
13. Tung A, Sweitzer B, Cutter T. Cardiac Arrest After Labetalol and Metoclopramide Administration in a Patient with Scleroderma (Case report). *Anesth Analg* 2002;95:1667-8
14. Tung A, Klafta J. Predicting postoperative pneumonia after major noncardiac surgery (Letter to the Editor). *Ann Intern Med.* 2002;137(7):620
15. Mendelson WB, Bergmann BM, Tung A. Baseline and post-deprivation recovery sleep in SCN-lesioned rats. *Brain Res.* 2003;980:185-90.

16. Tung A, Bergmann BM, Herrera S, Cao D, Mendelson WB. Recovery from sleep deprivation occurs during propofol anesthesia. *Anesthesiology*. 2004;100:1419-26.
17. Tung A, Drum M, Morgan SE. Effect of inspiratory time on tidal volume delivery in anesthesia and ICU ventilators operating in pressure control mode. *J Clin Anesth*. 2005;17:8-15.
18. Tung A, Herrera S, Szafran MJ, Kasza K, Mendelson WB. The effect of sleep deprivation on righting reflex in the rat is partially reversed by administration of adenosine A1 and A2 receptor antagonists. *Anesthesiology* 2005;102:1158-64.
19. Tung A, Takase L, Fornal C, Jacobs B. Effects of sleep deprivation and recovery sleep upon cell proliferation in adult rat dentate gyrus. *Neuroscience* 2005;134:721-3.
20. Ferschl MB, Tung A, Sweitzer B, Huo D, Glick DB. Preoperative clinic visits reduce operating room cancellations and delays. *Anesthesiology* 2005;103:855-859.
21. Tung A, Anderson J, Daves S, Waggoner D, Kahana M. Hyponatremia After Cleft Lip Repair In A Patient With Holoprosencephaly (Letter to the Editor) *Anesth Analg* 2006;102:965-6.
22. Bryan YF, Templeton TW, Nick TG, Szafran M, Tung A. Brain MR imaging increases core body temperature in sedated children. *Anesth Analg* 2006;102:1674-9.
23. Tung A, Roth S, O'Connor MF, Liu W, Ellis JE. Fulminant liver failure after radical prostatectomy in the hyperlordotic position. *Anesth Analg*. 2006;103:986-8.
24. Neema PK, Pathak S, Varma PK, Manikandan S, Rathod RC, Tempe DK, Tung A. Case 2-2007 systemic air embolization after termination of cardiopulmonary bypass. *J Cardiothorac Vasc Anesth*. 2007;21:288-97
25. Roth S, Tung A, Ksiazek S. Visual loss in a prone-positioned spine surgery patient with the head on a foam headrest and goggles covering the eyes: an old complication with a new mechanism. *Anesth Analg*. 2007;104:1185-7
26. Ellis JE, Tung A, Lee H, Kasza K. Predictors of Perioperative beta-Blockade Use in Vascular Surgery: A Mail Survey of United States Anesthesiologists. *J Cardiothorac Vasc Anesth*. 2007;21:330-6
27. Minhaj M, Patel K, Muzic D, Tung A, Jeevanandam V, Raman J, Chaney MA. The effect of routine intraoperative transesophageal echocardiography on surgical management. *J Cardiothorac Vasc Anesth*. 2007;21:800-4
28. Tung A. A piece of my mind. The other side. *JAMA*. 2007;298:722-3

29. Roth S, Tung A, Ksiazek S. Visual loss in a prone-positioned spine surgery patient with the head on a foam headrest and goggles covering the eyes: an old complication with a new mechanism. *Anesth Analg.* 2007;104:1185-7.
30. Dorafshar AH, Dickie S, Cohn A, Aycock JK, O'Connor A, Tung A, Gottlieb LJ. Antishear therapy for toxic epidermal necrolysis: an alternative treatment approach. *Plast Reconstr Surg* 2008;122:154-60
31. Tung A, Herrera S, Fornal CA, Jacobs BL. The effect of prolonged anesthesia with isoflurane, propofol, dexmedetomidine, or ketamine on neural cell proliferation in the adult rat. *Anesth Analg* 2008;106:1772-7
32. Stein EJ, Glick DB, Minhaj MM, Drum M, Tung A. The relationship between anesthetic depth and venous oxygen saturation during cardiopulmonary bypass. *Anesthesiology* 2010;113:35-40
33. Tung A, Glick DB, Jakubczyk S, Dexter F. The limited value of sequencing cases based on their probability of cancellation. *Anesth Analg.* 2010;111:749-56
34. Ellis JE, Tung A, Lee H, Lee H, Kasza K. Anesthesiologists' preferences for preoperative cardiac evaluation before vascular surgery: results of a mail survey. *J. Clin Anesth.* 2010;22:402-9
35. Choukalas CG, Walter J, Glick D, O'Connor MF, Tung A, Dinwiddie SH, Nunnally ME. Mask ventilation, hypocapnia, and seizure duration in electroconvulsive therapy. *J Clin Anesth.* 2010;22:415-9.
36. Tung A. Anaesthetic considerations with the metabolic syndrome. *Br J Anaesth* 2010;105 Suppl:i24-33
37. Dale W, Hemmerich J, Moliski L, Schwarze, Tung A. The effect of specialty and recent experience on perioperative decision making for abdominal aortic aneurysm repair. *J Am Geriatr Soc* 2012 Oct;60(10):1889-94
38. Practice Guidelines for Central Venous Access. A Report by the American Society of Anesthesiologists Task Force on Central Venous Access. *Anesthesiology* 2012; 116:539-73
39. Barr J, Fraser GL, Puntillo K, Ely EW, Gélinas C, Dasta JF, Davidson JE, Devlin JW, Kress JP, Joffe AM, Coursin DB, Herr DL, Tung A, Robinson BR, Fontaine DK, Ramsay MA, Riker RR, Sessler CN, Pun B, Skrobik Y, Jaeschke R. Clinical Practice Guidelines for the Management of Pain, Agitation, and Delirium in Adult Patients in the Intensive Care Unit. *Crit Care Med.* 2013;41:278-280
40. Tung A. Best practices for central line insertion. *Int Anesthesiol Clin.* 2013;51:62-78

41. Davidson JE, Tung A, Kishman CP Jr, Barr J. Reflecting on Use of the GRADE Process for Development of the 2013 PAD Guidelines. *Semin Respir Crit Care Med*. 2013;34(2):262-72
42. Stiegler MP, Tung A. Cognitive Processes in Anesthesiology Decision-making. *Anesthesiology*. 2014 Jan;120(1):204-17.
43. Scavone BM, Tung A. The transfusion dilemma: more, less, or more organized? [editorial] *Anesthesiology*. 2014 Sep;121(3):439-41
44. Morgan SE, Vukin K, Mosakowski S, Solano P, Stanton L, Lester L, Lavani R, Hall JB, Tung A. Use of Heliox Delivered via High-Flow Nasal Cannula to Treat an Infant With Coronavirus-Related Respiratory Infection and Severe Acute Air-Flow Obstruction. *Respir Care*. 2014 Nov;59(11):e166-70
45. Glick DB, Wroblewski K, Apfelbaum S, Dauber B, Woo J, Tung A. The relationship between competition and quality in procedural cardiac care. *Anesth Analg*. 2015 Jan;120(1):220-9
46. Greenberg SB, Tung A: But is it safe? [editorial] Hydroxyethyl starch in perioperative care. *Anesth Analg* 2015;120:519-21.
47. Woo M, Tung A. A "Watershed" Moment in Critical Care Training. *Anesth Analg*. 2015;120:993-4.
48. Morgan SE, Mosakowski S, Solano P, Hall JB, Tung A. High-Flow Nasal Cannula and Aerosolized β Agonists for Rescue Therapy in Children With Bronchiolitis: A Case Series. *Respir Care*. 2015;60:e161-5
49. Obase K, Weinert L, Hollatz A, Farooqui F, Roberts JD, Minhaj MM, Tung A, Chaney M, Ota T, Balkhy HH, Jeevanandam V, Saito K, Yoshida K, Mor-Avi V, Lang RM. Leaflet-Chordal Relations in Patients with Primary and Secondary Mitral Regurgitation. *J Am Soc Echocardiogr*. 2015 Nov;28(11):1302-8
50. Tung A, Apfelbaum JL. What Is an Acute Care Anesthesiologist? *Anesth Analg*. 2015;121:1434-5
51. Shahul S, Tung A, Minhaj M, Nizamuddin J, Wenger J, Mahmood E, Mueller A, Shaefi S, Scavone B, Kociol RD, Talmor D, Rana S. Racial Disparities in Comorbidities, Complications, and Maternal and Fetal Outcomes in Women With Preeclampsia/eclampsia. *Hypertens Pregnancy*. 2015;34:506-15.
52. Obase K, Weinert L, Hollatz A, Farooqui F, Roberts JD, Minhaj MM, Tung A, Chaney M, Ota T, Jeevanandam V, Yoshida K, Mor-Avi V, Lang RM. Elongation of chordae

tendineae as an adaptive process to reduce mitral regurgitation in functional mitral regurgitation. . *Eur Heart J Cardiovasc Imaging*. 2016;17:500-9.

53. Tung A. The Needs of the Many (editorial). *Anesth Analg*. 2016;122:1239-41.
54. Shahul S, Medvedofsky D, Wenger JB, Nizamuddin J, Brown SM, Bajracharya S, Salahuddin S, Thadhani R, Mueller A, Tung A, Lang RM, Arany Z, Talmor D, Karumanchi SA, Rana S. Circulating Antiangiogenic Factors and Myocardial Dysfunction in Hypertensive Disorders of Pregnancy. *Hypertension*. 2016;67:1273-80
55. Shahul S, Tung A. Learning Critical Care Echocardiography: The Start of an Evidence-Based Approach? (editorial) *Crit Care Med*. 2016;44:1249-50.
56. Ruskin KJ, Tung A. "If I Had Some Duct Tape, I Could Fix That" (editorial) *Anesth Analg*. 2016;123:1072-3
57. Banayan JM, Rana S, Tung A, Arany Z, Ramadan H, Nizamuddin J, Novack V, Scavone B, Brown SM, Shahul S. Cardiogenic Shock in Pregnancy: Analysis from the National Inpatient Sample. *Hypertens Pregnancy*. 2016 Nov 11:1-7 [epub ahead of print]
58. Nizamuddin J, Tung A, Mueller A, Brown SKM, Shaefi S, O'Connor MF, Talmor D, Shahul S. Interval changes in myocardial performance index predict outcome in severe sepsis. *J Cardiothor Vasc Anesth* 2016 Nov 2 [Epub ahead of print]
59. Tung A, Pittet JF. "Maybe the wand does matter?" (editorial). *Anesth Analg*. 2017;124:7-8
60. Siddiqui M, Minhaj M, Mueller A, Tung A, Scavone B, Rana S, Shahul S. Increased Perinatal Morbidity and Mortality Among Asian American and Pacific Islander Women in the United States. *Anesth Analg*. 2017;124:879-886
61. Rubin DS, Matsumoto MM, Moss HE, Joslin CE, Tung A, Roth S. Ischemic Optic Neuropathy in Cardiac Surgery: Incidence and Risk Factors in the United States from the National Inpatient Sample 1998 to 2013. *Anesthesiology*. 2017;126:810-21
62. Stiegler MP, Tung A. Is It Quality Improvement or Is It Research? Ethical and Regulatory Considerations (editorial). *Anesth Analg*. 2017;125:342-4.
63. Ramadan H, Rana S, Mueller A, Bajracharya S, Zhang D, Salahuddin S, Nasim R, Perdigao JL, Minhaj M, Tung A, Arany Z, Shahul S. Myocardial performance index in hypertensive disorders of pregnancy: The relationship between blood pressures and angiogenic factors. *Hypertens Pregnancy*. 2017;36:161-167.

64. Mahmood E, Matyal R, Mueller A, Mahmood F, Tung A, Montealegre-Gallegos M, Schermerhorn M, Shahul S. Multifactorial risk index for prediction of intraoperative blood transfusion in endovascular aneurysm repair. *J Vasc Surg.* 2017 Sep 28.[epub ahead of print]
65. Gerlach R, Tung A. Insulin for Perioperative Glucose Control: Settled Science? (Letter to the editor). *Anesthesiology.* 2017;127:899-900
66. Chhabra N, Gupta A, Chibber R, Minhaj M, Hofer J, Mueller A, Tung A, O'Connor M, Scavone B, Rana S, Shahul S. Outcomes and mortality in parturient and non-parturient patients with peripartum cardiomyopathy: A national readmission database study. *Pregnancy Hypertens.* 2017;10:143-8
67. Shahul S, Ramadan H, Mueller A, Nizamuddin J, Nasim R, Lopes Perdigao J, Chinthala S, Tung A, Rana S. Abnormal mid-trimester cardiac strain in women with chronic hypertension predates superimposed preeclampsia. *Pregnancy Hypertens.* 2017;10:251-5

(b) Peer-reviewed works in 'non-traditional' outlets:

1. Tung A. Anesthesia for patients with stiff lungs. *MDvista Journal of Medicine (TM)* [serial online]. April 2001. Available at: <http://www.mdvista.com>.
2. Patent #08/749,032. A New Spectrophotometric Assay for Cyanide.
3. US Patent #09/639,036. Use of Solid Hydroxides as a Scavenging material for Cyanide Gas
4. US Patent #09/6,497,658. Alarm upon detection of impending sleep state

(c) Non-peer-reviewed original articles

1. Tung A. Sentinel events and how to learn from them. *Int Anesthesiol Clin.* 2014 Winter;52(1):53-68
2. Tung A. Critical care of the cardiac patient. *Anesthesiol Clin.* 2013 Jun;31(2):421-32

(e) Book chapters:

1. Tung A, Roizen MF: The real role of anesthesia in surgery. *Journal of the Museum of Science and Industry,* 38:5:10-15, 1987

2. Tung A, Rosenthal M: Patients requiring sedation. *Crit Care Clin* 11:791-802, 1995
3. Tung A: Aminophylline. *Essence of Anesthesia Practice*. Roizen MF, Fleisher LA, eds. Philadelphia: WB Saunders, 1997, p. 472
4. Tung A: Necrotizing Fasciitis. *Essence of Anesthesia Practice*. Roizen MF, Fleisher LA, eds. Philadelphia: WB Saunders, 1997, p. 232
5. Tung A: Indications for mechanical ventilation. *Int Anesth Clin* 35:1-17, 1997
6. Tung A: Management of Burns, Companion text to *Principles of Critical Care*. Hall J, Schmidt G, Wood LDH eds. New York: McGraw Hill 1999 p801-822.
7. Tung A: Perioperative management of the patient with ARDS. *ASA Refresher Courses in Anesthesiology* 2000;28: 229-38
8. Tung A. Perioperative ventilation of the vascular surgery patient. *Seminars in Cardiovascular and Thoracic Anesthesia* 2000;4:265-74
9. Tung A, Rock P. Perioperative concerns in sleep apnea. *Curr Op Anaesth* 2001;14:671-8.
10. Jordan VS, Tung A. Dexmedetomidine: Clinical update. *Seminars in Anesthesiology, Perioperative medicine and Pain*. 2002;21:265-74.
11. Tung A, Mendelson WB. Anesthesia and sleep. *Sleep Med Rev*. 2004;8:213-25.
12. Tung A. New Anesthesia Techniques. In: *Thoracic Surgery Clinics of N. America* 2005;15:27-38.
13. Tung A. The Biology and Genetics of Sleep Apnea. In: *Anesthesiology Clinics of North America* 2005;3:445-61.
14. Tung A. New Developments in Anesthesia Ventilators. In: *Advances in Anesthesia* 2005;23:173-94
15. Tung A. Upper Airway Anatomy. In: *Obstructive Sleep Apnea*. Clete Kushida, Ed. INFRMA-HC, 2007
16. Tung A. Risk Reduction and Risk Assessment. In: *Handbook of Preoperative Assessment and Management*. Lippincott Williams & Wilkins 2007
17. Tung A: Evidence, Experience, and Medical decision making. *ASA Refresher Courses in Anesthesiology* 2009

18. Tung A, O'Connor MF. What is the best way to sedate critically ill patients? In: Evidence-based practice of critical care. Saunders Elsevier 2010 pp 545-7
19. Tung A. Sleep disturbances in the intensive care unit. Do they matter? In: Evidence-based practice of critical care. Saunders Elsevier 2010 pp 561-3
20. Zafirova Z, Tung A. "The Difficult Airway: Definitions and Algorithms". In: The Difficult Airway: An Atlas of Tools and Techniques for Clinical Management. Springer Science 2012
21. Quality and Safety in Anesthesia Practice. In: Miller RD *Basics of Anesthesia 6th edition, 2017*
22. Challenges in outcome reporting. In: *Anesthesiology Clinics [in press]*

FUNDING

(a) Past:

1. Foundation for Anesthesia Research Starter Grant for project:: "The Effects of Deep Nighttime Sedation on Restorative Sleep in Rats"
PI: Tung. Effort: 100%. Project period: 1998 \$25,000
2. Brain Research Foundation Seed Grant, University of Chicago 2000
PI: Tung. Effort: (100%). Project period: 2000. \$25,000
3. NIH grant #1-K08-GM000697-01A1. "The effect of sedation on restorative sleep. Effort: 80%.
Project period: 2001-2005. \$550,375
4. Brain Research Foundation Seed Grant, University of Chicago
PI: Tung. Effort: 100%. Project period: 2002. \$25,000
5. Brain Research Foundation Seed Grant, University of Chicago
PI: Tung. Effort 100%. Project period 2005. \$25,000

HONORS, PRIZES, AND AWARDS

1985: Phi Beta Kappa
 1987: American Association for the Study of Liver Diseases Student Research Prize
 1989: Alpha Omega Alpha
 1998: Teacher of the Year, Department of Anesthesia and Critical Care
 2000: Best abstract of the meeting (IARS) (Are anesthetics...)
 2007 "Favorite Faculty". Pritzker School of Medicine

2010 “Favorite Faculty”. Pritzker School of Medicine
2011: Teacher of the Year, Department of Anesthesia and Critical Care
2011: Academy of Distinguished Medical Educators
2012: Fellow, American College of Critical Care Medicine

INVITED SPEAKING (extramural)

- 1999 Perioperative management of the patient with ARDS
Refresher Course lecture
American Society of Anesthesiologists Annual Meeting
Dallas TX
- 1999 In-Hospital care of Burns.
Paramedic and Critical Care Nurse Continuing Education Seminar
Southlake Methodist Hospital, Merriville, IN
- 2000 Perioperative management of the patient with ARDS
Visiting Professor lecture
Penn State-Geisinger Health System
Department of Anesthesia
Hershey, PA
- 2000 Anesthesia for Major Burn Surgery
Morbidity and Mortality conference
University of Illinois at Chicago
Department of Anesthesia
Chicago, IL
- 2000 Burn Assessment and In-hospital treatment
Advanced Trauma Assessment Course
Southlake Methodist Hospital, Merriville, IN
- 2000 Perioperative management of the patient with ARDS
Refresher Course lecture
American Society of Anesthesiologists Annual Meeting
San Francisco, CA
- 2000 The Pharmacological manipulation of sleep by anesthetics
Research panel presentation
American Society of Anesthesiologists Annual Meeting
San Francisco, CA
- 2000 Ventilating the patient with altered lung mechanics
Illinois Society of Anesthesiologists Fall meeting
Oak Brook, IL

- 2000 The Pharmacological manipulation of sleep by anesthetics
Visiting Professor lecture
University of North Carolina
Chapel Hill, NC
- 2001 Effects Of Intravenous Anesthetics On Restorative Sleep
Visiting Professor lecture
University of Michigan Department of Anesthesia
Ann Arbor, Michigan
- 2001 Perioperative management of the patient with ARDS
Refresher Course lecture
American Society of Anesthesiologists Annual Meeting
New Orleans, LA
- 2002 The Pharmacological manipulation of sleep by anesthetics
Visiting Professor lecture
Mayo Clinic Department of Anesthesia
Rochester, MN
- 2002 Sleep, Sedation and Anesthesia
Midwest Clinical Conference
Chicago Medical Society
Chicago, IL
- 2002 New Anesthesia Ventilators: Pushing the envelope
Midwest Anesthesia Conference
Chicago, IL
- 2002 Shock and Fluid Resuscitation
American Burn Association National Advanced Burn
Life Support (ABLS) Course
Chicago, IL
- 2002 New Anesthesia Ventilators: Pushing the envelope
Visiting Professor lecture
University of Colorado Department of Anesthesia
Denver, CO
- 2002 Do they sleep? Sedation and sleep in the ICU
Visiting Professor lecture
College of Physicians and Surgeons, Columbia University
New York, NY
- 2002 Nutrition in the ICU
ASCCA Review course lecture

Philadelphia, PA

- 2002 Perioperative management of the patient with ARDS
Refresher Course lecture
American Society of Anesthesiologists Annual Meeting
Orlando, FL
- 2003 Sleep, Sedation and Anesthesia
Midwest Clinical Conference
Chicago Medical Society
Chicago, IL
- 2003 Sedation in the ICU
Sea Pines Anesthesiology Review Course
University of South Carolina
Hilton Head, SC
- 2003 That can't be right! Albumin and the Swan-Ganz Catheter
Sea Pines Anesthesiology Review Course
University of South Carolina
Hilton Head, SC
- 2003 New Anesthesia Ventilators: Pushing the envelope
Sea Pines Anesthesiology Review Course
University of South Carolina
Hilton Head, SC
- 2003 Perioperative management of the patient with ARDS
Refresher Course lecture
American Society of Anesthesiologists Annual Meeting
San Francisco, CA
- 2003 Insulin and Tight Glucose Control: Why, who, how tight,
how long?
Breakfast Panel lecture
American Society of Anesthesiologists Annual Meeting
San Francisco, CA
- 2004 Sleep, Anesthesia, and the ICU
Visiting Professor Lecture
Stanford University
Palo Alto, CA
- 2004 New Anesthesia Ventilators: Pushing the envelope
Michigan Society of Anesthesiologists Annual Meeting
Troy, MI

- 2004 That Can't Be Right! Albumin, the Swan-Ganz Catheter, and the medical literature
Audio Digest lecture Vol. 46 Issue 13
- 2004 Insulin and Tight Glucose Control: Why, who, how tight, how long?
Michigan Society of Anesthesiologists Annual Meeting
Troy, MI
- 2004 The PA Catheter: Evidence based?
American Society of Critical Care Anesthesiologists
Annual meeting
Las Vegas, NV
- 2004 Acute Respiratory Failure and the Adult Respiratory Distress Syndrome
Refresher Course Lecture
American Society of Anesthesiologists Annual Meeting
Las Vegas, NV
- 2004 Limiting Tidal Volumes in the OR: Worth the Risk?
Panel/Debate
American Society of Anesthesiologists Annual Meeting
Las Vegas, NV
- 2004 New Anesthesia Ventilators: What can they do for you?
Panel presentation
American Society of Anesthesiologists Annual Meeting
Las Vegas, NV
- 2004 Sleep and Anesthesia: Regulatory Interactions
Visiting Lecture
Northwestern University
Evanston, IL
- 2005 Sleep and Anesthesia: Regulatory Interactions
Visiting Lecture
San Francisco General Hospital/UCSF
San Francisco, CA
- 2005 Tight Glucose Control in Cardiovascular Surgery. Who, Why, How tight, How long?
Visiting Lecture
Baystate Medical Center Department of Anesthesia
Springfield MA
- 2005 The PA Catheter: Insights into Medical Decision Making
Visiting Professor Lecture
Brigham & Women's Hospital

Harvard Medical School
Boston MA

- 2005 Performance Limitations of Anesthesia Ventilators
Visiting Lecture
VA Puget Sound Health Care System
University of Washington Department of Anesthesia
Seattle, WA
- 2005 Acute Respiratory Failure and the Adult Respiratory Distress Syndrome
Refresher Course Lecture
American Society of Anesthesiologists Annual Meeting
Atlanta, GA
- 2005 Why would you need a new anesthesia ventilator?
Panel presentation
American Society of Anesthesiologists Annual Meeting
Atlanta, GA
- 2005 Tight glycemic control: Everybody! All the time!
Pro-Con debate
American Society of Anesthesiologists Annual Meeting
Atlanta, GA
- 2005 Uses for the new generation of anesthesia ventilators
Visiting Professor Lecture
Northwestern University Feinberg School of Medicine
Chicago, IL
- 2005 Sedation: Is there a best practice?
Visiting Lecture
Brigham and Women's Hospital
Harvard Medical School
Boston, MA
- 2005 Systolic Function, Diastolic Function, Aorta
Transesophageal Echo Workshop
Illinois Society of Anesthesiologists Fall Meeting
Chicago, IL
- 2005 Acute Respiratory Failure and the Adult Respiratory Distress Syndrome
Illinois Society of Anesthesiologists Fall Meeting
Chicago, IL
- 2006 Anesthesia for Major Burn Surgery
Visiting Professor Lecture

Rush Medical Center
University of Illinois at Chicago

- 2006 Evidence, Experience, the PA catheter, and Medical Decision-making
Visiting Professor Lecture
Department of Anesthesiology
Rush Medical Center
University of Illinois at Chicago
- 2006 Evidence, Experience, and Medical Decision-making
Visiting Professor Lecture
Department of Anesthesiology
University of Cincinnati School of Medicine
Cincinnati, OH
- 2006 New Anesthesia Ventilators: Expanding the Envelope
Visiting Professor Lecture
Department of Anesthesiology
Emory University School of Medicine
Atlanta, GA
- 2006 The PA Catheter: Why don't we believe what we read?
Visiting Professor Lecture
Department of Anesthesiology
Emory University School of Medicine
Atlanta, GA
- 2006 Evidence, Experience, and Medical Decision-making
Refresher Course Lecture
American Society of Anesthesiologists Annual Meeting
Chicago, IL
- 2006 BIS in the ICU: Because you can't know any other way!
Pro-con debate
American Society of Anesthesiologists Annual Meeting
Chicago, IL
- 2007 Evidence, Experience, and Medical Decision-making
Visiting Professor Lecture
Department of Anesthesiology
Washington University School of Medicine
St. Louis, MO
- 2007 Sleep and Anesthesia: Regulatory Interactions
Visiting Professor Lecture
Department of Anesthesiology

Washington University School of Medicine
St. Louis, MO

- 2007 Evidence, Experience, and Medical Decision-making
Medical Grand Rounds
Department of Medicine
Evanston Northwestern Healthcare
Evanston, IL

- 2007 Myth in Numbers: What is real and what is really important?
Society for Cardiovascular Anesthesiologists
Annual Meeting
Montreal, CA

- 2007 Mechanical ventilation: Insights from the ICU
Panel presentation
American Society of Anesthesiologists Annual Meeting
San Francisco, CA

- 2007 The Daily Wakeup test: Fact or Fancy
Pro-Con discussion
American Society of Anesthesiologists Annual Meeting
San Francisco, CA

- 2007 Why do we monitor cardiac output when it doesn't change outcome?
Panel presentation
American College of Chest Physicians Annual Meeting
Chicago, IL

- 2007 Sleep and Anesthesia: Regulatory Interactions
Department of Anesthesiology
University of Michigan
Ann Arbor, MI

- 2008 Evidence vs Experience: Making better decisions
1st annual Brett B.Gutsche memorial lecture
University of Pennsylvania
Philadelphia, PA

- 2008 Year in Anesthesia (Literature review)
Society for Critical Care Medicine Annual Meeting
Honolulu, HI

- 2008 Mechanical ventilation in the OR: Practical aspects
International Anesthesia Research Society annual meeting
San Francisco, CA

- 2008 Evidence vs Experience: Can we make better decisions?
Manitoba Anesthesia Conference
Winnipeg, Manitoba, Canada
- 2008 Tight glucose control: Is it worth the risk?
Manitoba Anesthesia Conference
Winnipeg, Manitoba, Canada
- 2008 Decision making in Medicine and Industry
Penn Neuroprotection Symposium
Philadelphia, PA
- 2008 Checklists: a magic bullet?
American Society of Critical Care Anesthesiologists
Annual Meeting
Orlando, FL
- 2008 Interactive Scenario: “A 69 yr F for pelvic exenteration”
Interactive case discussion with audience response
Moderator and discussant
American Society of Critical Care Anesthesiologists Annual Meeting
Orlando, FL
- 2008 Interactive Journal club: The best of 2008
Literature review with audience response
Moderator and discussant
American Society of Critical Care Anesthesiologists
Annual Meeting
Orlando, FL
- 2008 Sleep, Anesthesia, and the Elderly
Panel lecture
American Society of Anesthesiologists annual meeting
Orlando, FL
- 2008 Quality: Easy to advocate, Harder to do
Speaker and panel moderator
American Society of Anesthesiologists annual meeting
Orlando, FL
- 2008 Clinical Forum: Critical Care
Moderator and discussant
American Society of Anesthesiologists annual meeting
Orlando, FL

- 2008 Evidence vs Experience: Making better decisions
Refresher course
American Society of Anesthesiologists annual meeting
Orlando, FL
- 2008 Protecting the Lung
Lecture
Postgraduate Assembly in Anesthesiology
New York, NY
- 2008 Management of Mechanical Ventilation
Lecture
Postgraduate Assembly in Anesthesiology
New York, NY
- 2009 When is it safe to perform regional anesthesia in a patient with a bleeding disorder?
Panel Lecture
Society of Critical Care Medicine Annual Congress
Nashville, TN
- 2009 The Changing face of Quality: Past, Present and Future
Visiting Lecture
Cornell University
New York, NY
- 2009 Can outcomes be changed with new ventilator techniques?
Invited lecture
Society for Cardiovascular Anesthesiologists annual meeting
San Antonio, TX
- 2009 What's new in mechanical ventilation?
Visiting Lecture
Hospital for Special Surgery
New York, NY
- 2009 Quality: Can we do better?
Invited Lecture
Midwest Anesthesia Conference
Chicago, IL
- 2009 Evidence vs Experience: Making medical decisions
Refresher course lecture
American Society of Anesthesiologists annual meeting
New Orleans, LA
- 2009 Mechanical ventilation

- Refresher course lecture
American Society of Anesthesiologists annual meeting
New Orleans, LA
- 2009 The neuroanatomy of consciousness
Panel presentation
American Society of Anesthesiologists annual meeting
New Orleans, LA
- 2009 Interactive clinical forum: A 69 yr F undergoes thoracotomy
Discussant and Moderator
American Society of Anesthesiologists annual meeting
New Orleans, LA
- 2009 The year in anesthesia and critical care
Panel Discussant
American Society of Anesthesiologists annual meeting
New Orleans, LA
- 2009 Checklists: a magic bullet?
Panel presentation
American Society of Anesthesiologists annual meeting
New Orleans, LA
- 2009 Medical Decision Making: Can we do better?
Invited lecture
SAAA annual meeting
Boston, MA
- 2009 What's new in ICU sedation?
Invited lecture
Postgraduate Assembly in Anesthesiology
New York, NY
- 2010 The Price of Preference
Visiting Professor lecture
University of Pittsburgh
Pittsburgh, PA
- 2010 Do I really need a PA catheter? Medical decision making
Lecture
Society for Cardiovascular Anesthesiologists annual meeting
New Orleans, LA
- 2010 The Price of Preference
Visiting Professor lecture

University of Medicine & Dentistry, New Jersey
Newark, NJ

- 2010 The Settled Science of hemodynamic monitoring
Visiting Professor lecture
New York State Society meeting
Albany, NY
- 2010 The Price of Preference
David Sheridan lecture
Albany Medical Center
Albany, NY
- 2010 Can ICU Delirium be prevented?
Pro con debate
American Society of Anesthesiologists annual meeting
San Diego, CA
- 2010 Interactive Case based clinical forum
Moderator and panelist
American Society of Anesthesiologists annual meeting
San Diego, CA
- 2010 Interactive Ethics in end of life care
Moderator and panelist
American Society of Anesthesiologists annual meeting
San Diego, CA
- 2010 Is there still any value to traditional hemodynamic monitors?
Invited lecture
ACCP annual meeting
Vancouver, BC
- 2010 Postoperative cardiac care
Invited lecture
ACCP annual meeting
Vancouver, BC
- 2010 The settled science of hemodynamic monitoring
Visiting teaching lecture
Medical University of South Carolina
Charleston, SC

- 2010 The Price of Preference
Visiting Professor lecture
Medical University of South Carolina
Charleston, SC
- 2010 Anesthetizing the patient with the Metabolic Syndrome
Invited Lecture
Postgraduate Assembly in Anesthesiology
New York, NY
- 2011 Perioperative management of major burns
Visiting teaching lecture
University of New Mexico School of Medicine
Albuquerque, NM
- 2011 The Price of Preference
Visiting Professor lecture
University of New Mexico School of Medicine
Albuquerque, NM
- 2011 The Price of Preference
Visiting Professor lecture
Vanderbilt University Medical Center
Nashville, TN
- 2011 The Settled Science of Hemodynamic Monitoring
Visiting Professor Lecture
NYU School of Medicine
New York, NY
- 2011 Interactive Clinical Forum: SOCCA panel
Discussant & Moderator
IARS annual meeting
Vancouver, BC
- 2011 Delirium in the PACU and ICU
Invited Lecture
IARS annual meeting
Vancouver, BC
- 2011 The settled science of hemodynamic monitoring
Visiting lecture
Duke University Department of Anesthesia
Durham, NC
- 2011 The price of preference

- Visiting Professor lecture
Duke University Department of Anesthesia
Durham, NC
- 2011 What's new in Mechanical Ventilation
Visiting Professor lecture
Wayne State University Department of Anesthesia
Detroit, MI
- 2011 Nonrational factors in medical decision making
Visiting Professor lecture
Wayne State University Department of Anesthesia
Detroit, MI
- 2011 The price of preference: Guideline noncompliance and nonrational factors in medical decision making
Visiting Professor lecture
Penn State College of Medicine
Hershey, PA
- 2011 The price of preference: Guideline noncompliance and nonrational factors in medical decision making
Invited lecture
North Carolina Society of Anesthesiologists fall meeting
Asheville, NC
- 2011 The settled science of hemodynamic monitoring
Invited lecture
North Carolina Society of Anesthesiologists fall meeting
Asheville, NC
- 2011 Learning from diversity (How can we teach and learn if everybody does it differently?)
Invited lecture
Society of Critical Care Anesthesiologists Annual meeting
Chicago, IL
- 2011 Hemodynamics: a settled science?
Breakfast panel lecture
American Society of Anesthesiologists Annual meeting
Chicago, IL
- 2011 Clinical Forum: A 65 yr M presents for combined colon/hepatic resection
Clinical panel moderator and participant
American Society of Anesthesiologists Annual meeting
Chicago, IL

- 2011 The mystery of guideline noncompliance: why doctors don't do the "right" thing
Refresher course lecture
American Society of Anesthesiologists Annual meeting
Chicago, IL
- 2011 Anesthesia for the Elderly
Invited Lecture
Postgraduate Assembly in Anesthesiology
New York, NY
- 2012 The price of preference: Nonrational factors in medical decision making
Invited lecture
Lehigh Valley Healthcare System Annual retreat
Macungie, PA
- 2012 The price of preference: Nonrational factors in medical decision making
Visiting Professor lecture
Medical College of Wisconsin
Milwaukee, WI
- 2012 "A 65 yr M s/f colectomy/hepatic resection (Interactive scenario) 2012
Visiting Professor lecture
Medical College of Wisconsin
Milwaukee, WI
- 2012 Practice variability: What does it mean when we all do things differently?
Visiting Professor lecture
Vanderbilt University
Nashville, TN
- 2012 Postoperative Delirium
Refresher lecture
IARS annual meeting
Boston, MA
- 2012 Interactive Clinical Forum
Moderator and Panel discussion
IARS annual meeting
Boston, MA
- 2012 Nonrational factors in medical decision-making
Visiting Professor Lecture
Jefferson University Medical Center
Philadelphia, PA
- 2012 Regional anesthesia in cardiac surgery: Con

- Invited Lecture
Canadian Anesthesiologist's Society annual meeting
Quebec, CA
- 2012 New concepts in hemodynamic resuscitation
Invited Lecture
Canadian Anesthesiologist's Society annual meeting
Quebec, CA
- 2012 The mystery of guideline noncompliance
Refresher course lecture
American Society of Anesthesiologists Annual meeting
Washington, DC
- 2012 Interactive panel: An 82 yr M for radical cystectomy
Moderator and panelist
American Society of Anesthesiologists Annual meeting
Washington, DC
- 2012 The value of case review in quality improvement
Panel lecture
American Society of Anesthesiologists Annual meeting
Washington, DC
- 2012 Regional anesthesia for the patient with a coronary stent
Panel lecture
American Society of Anesthesiologists Annual meeting
Washington, DC
- 2012 Postoperative care of the patient with aortic stenosis
Panel lecture
American Society of Anesthesiologists Annual meeting
Washington, DC
- 2012 Mechanical ventilation: Getting it done in the real world
Panel lecture
American Society of Anesthesiologists Annual meeting
Washington, DC
- 2012 Mechanical ventilation in 2012
Scottsdale Anesthesia (CME)
Scottsdale, AZ
- 2012 The mystery of guideline noncompliance
Scottsdale Anesthesia (CME)
Scottsdale, AZ

- 2012 Anesthesia for the patient with the metabolic syndrome
Scottsdale Anesthesia (CME)
Scottsdale, AZ
- 2013 Difficult intraoperative ventilation
Invited lecture
Postgraduate Assembly in Anesthesiology
New York, NY
- 2013 The Mystery of Guideline noncompliance
Robertazzi Panel lecture
Postgraduate Assembly in Anesthesiology
New York, NY
- 2013 Mechanical ventilation in 2013
Anesthesia for the Elderly
The Price of Preference
Duke “Winter Anesthesia conference” CME course
Above + “Practice Variability”
Emory “New Horizons” CME course
- 2013 Performance measurement: “Con”
Invited Pro-con debate
Association of University Anesthesiologists annual meeting
Miami, FL
- 2013 Visiting professor lecture
“The Price of Preference: Nonrational factors in medical decision making”
MD Anderson Cancer Center
Department of Anesthesiology
Houston, TX
- 2013 Invited lecture
“ICU sedation and delirium”
McGill Anesthesia Update (CME)
Montreal, CA
- 2013 Invited lecture
“Volume Assessment & Cardiac Monitoring”
McGill Anesthesia Update (CME)
Montreal, CA
- 2013 Critical care panel: A patient s/p radical nephrectomy
Panelist
International Anesthesia Research Society annual meeting

San Diego, CA

- 2013 Invited panel lecture
Making medical decisions: Can we do better?
European Society of Anesthesiologists Annual meeting
Barcelona, Spain
- 2013 Keynote lecture
The price of preference: Nonrational factors in medical decision making
Intensive Care Society of Ireland
Dublin, IE
- 2013 Invited lecture
“Can you really create guidelines for sepsis management?”
Intensive Care Society of Ireland
Dublin, IE
- 2013 The price of preference: Nonrational factors in medical decision making
Christopher Bryan-Brown memorial lecture
Montefiore Medical Center
New York, NY
2013. Invited lecture
“Nonrational factors in medical decision making”
Wisconsin Society of Anesthesia Annual Meeting
Milwaukee, WI
2013. Invited lectures
“Best practices in central line insertion”
“Go ahead! Put in that central line (pro/con debate)”
“Critical Care forum (interactive panel discussion)”
“Postoperative Delirium: Risk Factors and Management Strategies”
“Evidence-based Case Review (Interactive Quality Workshop)”
American Society of Anesthesiologists Annual meeting (CME)
2013. Invited lectures (Also 4/2014 and 11/2015)
“Reporting your data to the Hospital”
“The AQI Anesthesia Incident Reporting System”
“Strategies for meeting Regulatory Compliance”
American Society of Anesthesiologists Quality Meeting (CME)
2014. Invited lecture
“Practice variability: What does it mean when we all do it differently?”
SCCM annual meeting “Current Concepts in Critical Care course” (CME)
San Francisco, CA

2014. Invited lecture
“Current Controversies in Quality management”
Washington State Society of Anesthesiologists Spring meeting (CME)
Seattle, WA
2014. Invited lectures
“Pay for performance in cardiac surgery”
“Starch: an update”
Society of Cardiovascular Anesthesiologists Annual meeting (CME)
New Orleans, LA
2014. Invited lectures
“Medication errors & the new APSF paradigm”
“Aortic Stenosis & noncardiac surgery”
“Volume assessment and hemodynamic monitoring in 2014”
“Best practices in central line insertion”
Emory New Horizons in Anesthesiology (CME)
2014. Invited lectures
“Modification of vasoactive therapy: Hypotensive despite Phenylephrine”
“Controversies in Patient Safety. Making perioperative care safer in 2014”
“Critical Care forum (interactive panel discussion)”
International Anesthesia Research Society annual meeting (CME)
Montreal, CA
2014. Invited lectures
“Critical Care forum (interactive scenario). A 65 yr M with 60% TBSA burns”
“Practice Variability: What does it mean when we all do it differently?”
UCSF Critical Care Medicine & Trauma conference (CME)
San Francisco, CA
2014. Invited lecture
“Trauma: Burn and fluid management in critical care”
European Association of Cardiothoracic Anesthesiologists annual meeting (CME)
Florence Italy
2014. Visiting professor lecture
“Current controversies in Quality Improvement”
NYU School of Medicine
New York, NY
2014. Invited lectures
“Best practices in central line insertion”
“Critical Care forum (interactive panel discussion)”
“Risk Adjustment: more trouble than its worth (pro/con debate)”
“From incidents to action (Quality panel)”

American Society of Anesthesiologists Annual meeting (CME)

2014. Visiting professor lecture
“Practice variability: What does it mean when we all do it differently?”
University of California Irvine
Irvine, CA
2014. Invited lectures
“Postoperative Cognitive Dysfunction”
“The patient with delirium”
New York State Postgraduate Assembly
New York, NY
- 2014: Invited discussion
“Ask the Experts” podcast
Openanesthesia.org
December 2014 edition
2015. Invited lectures
“Checklists: Are they needed in Critical Care?” (pro-con debate)
“Quality Metrics: Improving care or exerting control?” (panel)
Society of Critical Care Medicine annual meeting
Phoenix, AZ
2015. CME lectures
“Anesthesia for the Elderly”
“Hemodynamic monitoring and volume assessment in 2015”
“Controversies in Central line insertion”
“Aspen Anesthesia” (CME)
Aspen, CO
2015. Invited lectures
“Update in Critical Care”
“Quality, Are We Measuring What We Think We Are?”
IARS annual meeting
Honolulu, HI
2015. Invited lectures
“Controversies in hemodynamics”
“Delirium”
“Nonrational factors in clinical decision making”
“The Starch Controversy”
COPA (Sao Paulo Society of Anesthesiologists annual meeting
Sao Paulo, Brazil
- 2015: Invited lectures

- “Therapeutic hypothermia: an update”
Society of Cardiovascular Anesthesiologists Annual meeting
Washington, DC
2015. Invited lectures
“ARDS: Beyond tidal volume” (Ibsen Memorial Panel)
“Medical Decision Making”
Scandinavian Society of Anesthesiologists & Intensivists
Reykjavik, Iceland
2015. Visiting Professor lecture
Challenges in Anesthesia Quality
University of Kansas Department of Anesthesia
Kansas City, MO
2015. Visiting Professor lecture
Practice Variability: What does it mean when we all do things differently?
University of Wisconsin Department of Anesthesia
Madison, WI
- 2015: Invited lecture
“Creative collection of institutional data: what are the possibilities?”
Anesthesia Data Conference 2015
ASA Headquarters
Schaumburg, IL
2015. Invited lectures
“Is it really true that most of what we read is false?”
“Anesthesia Event Reporting Systems: Learning from experience”
Illinois Association of Nurse Anesthetists Fall meeting
Itasca, IL
2015. Invited lectures
“Central Line insertion: State of the art in 2015”
Association for Vascular Access annual meeting
Dallas, TX
2015. Invited lectures
“Central Line insertion: State of the art in 2015” (lecture)
“The “risk” in risk adjustment” (panel)
“Perioperative Critical care: a decision scenario” (panel)
“Teaching Intensivists about the Surgical Home” (panel)
“Patients do the darndest things: lessons from the AIRS database” (panel)
“Metrics: measuring success or exerting control?”
American Society of Anesthesiologists annual meeting
San Diego, CA

2015. Invited lectures
“Can anything be done about Acute Kidney Injury?”
“Postoperative Delirium: A 2015 update
New York State Postgraduate Assembly
New York, NY
2016. Visiting Professor lecture
“Practice variability: What does it mean when we all do things differently?”
University of New Mexico School of Medicine
Albuquerque, NM
- 2016: Invited lectures
“Reporting your data to the Hospital”
“A Risk Adjustment Primer”
ASA Practice Management meeting
San Diego, CA
- 2016: William Owens Memorial Lecture: “Challenges in Anesthesia Quality
Missouri Society of Anesthesiologists Annual meeting
St Louis MO
- 2016: Visiting Professor Lecture
Can anything be done about Acute Kidney Injury?
University of North Carolina School of Medicine
Chapel Hill, NC
- 2016: Visiting Professor lecture
“Challenges in Anesthesia Quality”
University of Washington School of Medicine
Seattle, WA
- 2016: CME lecture
“Leadership and Quality”
Illinois Society of Anesthesiologists Leadership conference
Schaumburg, IL
- 2016: “Challenges and Controversies in Central line insertion” (invited lecture)
“The year in Critical Care” (panel)
Critical Care Clinical Forum (panel)
American Society of Anesthesiologists annual meeting
Chicago IL
- 2016: “Reporting your data to the Hospital”
“Risk Adjustment: A primer”
ASA Anesthesia Quality Meeting
Chicago, IL

- 2016: “Metrics: Improving care or exerting control?”
“How do you manage POCD in the real world?”
Postgraduate Assembly in Anesthesiology
New York, NY
- 2017: “A Rose by Any Other Name (might not be a rose)”
Invited speaker
Society for Technology in Anesthesia
San Diego, CA
- 2017: Invited lecture
How to find your data and show your quality
Conference on Practice Management
Dallas, TX
- 2017: Invited lecture
Quality, Performance, and Reimbursement
Michigan Society of Anesthesiologists scientific session
Rochester, MI
- 2017: Visiting Professor lecture
Challenges in Anesthesia Quality
Northwestern University Department of Anesthesia
Chicago, IL
- 2017: “Challenges in Anesthesia Quality”
Edwin Bowe Memorial Lecture
“Decision making in Anesthesia: A case scenario”
Teaching lecture
University of Kentucky Department of Anesthesia
Lexington, Kentucky
- 2017: “Reporting quality data to the hospital”
Invited speaker
ASA Practice Management meeting
Grapevine, TX
- 2017: “Challenges in Anesthesia Quality”
Ali Gharib Memorial Lecture
Case Western Reserve Department of Anesthesiology
Cleveland, OH
- 2017: “ECMO: A 2017 primer”
Invited speaker

Wisconsin Society of Anesthesiologists annual meeting
Wisconsin Dells, WI

- 2017: “ECMO: Changing EBM one case at a time”
Visiting professor lecture
Mayo Clinic Rochester
Rochester, MN
- 2017: “Nonrational factors in medical decision making”
“Challenges in Anesthesia Quality”
“Why Report? Nothing ever changes anyway”
“Three things I learned in practice”
Invited lectures
Australian Society of Anesthesiologists Annual meeting
Perth, AU
- 2017: “Running a CQI meeting; How I do it”
Invited lecture
International Forum for Perioperative Quality and Safety
Boston, MA
- 2017: “Controversies in high-risk anesthesia practice”
“The Year in Critical Care”
Invited panel presentations
“Central line insertion: State of the art in 2017”
Refresher course lecture
American Society of Anesthesiologists Annual meeting
Boston, MA
- 2017: “Reporting your data to the Hospital”
“Outcome Reporting”
Invited lectures
Anesthesia Quality Meeting
Schaumburg, IL
- 2017: “Metrics: measuring quality or exerting control?”
Invited lecture
Postgraduate Assembly in Anesthesiology
New York, NY

INVITED SPEAKING (intramural including departmental CME)

- 1996 Extubation after major surgery.
8th Annual Conference, Challenges for Clinicians in the
New Millennium, Chicago, IL

- 1998 Critical Care Anesthesia: Lessons from the Burn Unit.
10th Annual Conference, Challenges for Clinicians in the
New Millennium, Chicago, IL
- 1999 Update on Mechanical Ventilation
11th annual Conference, Challenges for Clinicians in the
New Millennium, Chicago, IL
- 2000 ICU Sedation
2nd annual conference, Challenges for Clinicians in the
New Millennium, St. Thomas, US Virgin Islands
- 1998, 2001 Anesthesia for Burn Surgery
Department of Anesthesia and Critical Care
Grand Rounds
- 2001 New Anesthesia Ventilators: What can they do for you?
12th annual Conference, Challenges for Clinicians in the
New Millennium, Chicago, IL
- 2002 New Anesthesia Ventilators: What can they do for you?
13th annual Conference, Challenges for Clinicians in the
New Millennium, Chicago, IL
- 2003 That can't be right! Albumin, the Swan Ganz catheter, and
evidence-based medicine
14th annual Conference, Challenges for Clinicians in the
New Millennium, Chicago, IL
- 2004 Tight Glucose Control and Perioperative Outcomes
15th annual Conference, Challenges for Clinicians in the
New Millennium, Chicago, IL
- 2005 Evidence, Experience, and Medical Decision-making
16th annual Conference: Challenges for Clinicians in the New Millennium,
Chicago, IL
- 2005 Evidence, Experience, and Medical Decision-making
4th annual Conference: Alternative and Complementary
Medical Therapies, Chicago, IL
- 2006 Medical Decision-making: Evidence or Expert Opinion?
Section of General Internal Medicine
Department of Medicine
University of Chicago, Chicago, IL

- 2006 New Anesthesia Ventilators: Expanding the Envelope
20th annual Conference: Challenges for Clinicians in the New Millennium,
Chicago, IL
- 2006 Controversies in new technology: US/BIS/PAC
20th annual Conference: Challenges for Clinicians in the New Millennium,
Chicago, IL
- 2007 Evidence vs experience: Making better decisions
21th annual Conference: Challenges for Clinicians in the New Millennium,
Chicago, IL
- 2007 Decision making in Anesthesia (Case scenarios)
21th annual Conference: Challenges for Clinicians in the New Millennium,
Chicago, IL
- 2008 Glucose control: Is it for real?
10th annual conference, Challenges for Clinicians in the New Millennium,
St. John, US Virgin Islands
- 2008 Decisions
10th annual conference, Challenges for Clinicians in the New Millennium,
St. John, US Virgin Islands
- 2008 The changing face of Quality
22nd annual Conference: Challenges for Clinicians in the New Millennium
Chicago, IL
- 2008 The patient with COPD
22nd annual Conference: Challenges for Clinicians in the New Millennium
Chicago, IL
- 2009 What's new in Cardiac Surgery
11th annual conference, Challenges for Clinicians in the New Millennium,
St. John, US Virgin Islands
- 2009 The changing face of Quality
11th annual conference, Challenges for Clinicians in the New Millennium,
St. John, US Virgin Islands
- 2009 Is there a best way to ventilate?
23rd annual conference: Challenges for Clinicians in the New Millennium,
Chicago, IL
- 2010 What's new in mechanical ventilation?

- 12th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI
- 2010 Non-evidence based decisions
12th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI
- 2010 Interactive Clinical Forum
Panel discussion
24th annual conference: Challenges for Clinicians in the New Millenium,
Chicago, IL
- 2010 Interactive Airway management
Panel discussion
24th annual conference: Challenges for Clinicians in the New Millenium,
Chicago, IL
- 2010 The settled science of hemodynamic monitoring
Lecture
24th annual conference: Challenges for Clinicians in the New Millenium,
Chicago, IL
- 2010 The Price of Preference
Grand Rounds lecture
Department of Anesthesia and Critical Care
University of Chicago
- 2011 The settled science of hemodynamic monitoring?
13th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI
- 2011 New guidelines for CVP and ICU sedation
13th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI
- 2011 Anesthesia for patients with the Metabolic Syndrome
13th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI
- 2012 Delirium in the ICU and PACU
14th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI
- 2012 Drug safety: the new APSF paradigm
14th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI

- 2012 What's new in mechanical ventilation: 2012
14th annual conference: Challenges for Clinicians in the New Millenium,
St John, USVI
2013. CME lectures
“Interactive clinical scenario I and II”
26th annual Challenges for Clinicians (CME)
Chicago, IL
2014. CME lectures
“Interactive clinical scenarios”
“Is it really true that half of what I read is false?”
27th annual Challenges for Clinicians (CME)
Chicago, IL
- 2015: CME lectures
“Interactive clinical scenarios”
“Can anything be done about Acute Kidney Injury?”
29th annual Challenges for Clinicians (CME)
Chicago, IL
- 2016: CME lectures
‘Interactive clinical scenarios’
“Best practices in central line insertion”
30th annual Challenges for Clinicians (CME)
Chicago IL
- 2017: CME lectures
‘Interactive clinical scenarios’
“Challenges in Anesthesia Quality”
31st annual Challenges for Clinicians (CME)
Chicago IL

INVITED, ELECTED, OR APPOINTED EXTRAMURAL SERVICE

2003-2008: Member, Anesthesiology and Respiratory Therapy Devices Panel, Medical Devices Advisory Committee, CDRH, FDA

2002-2003: Member, Subcommittee on Critical Care, American Society of Anesthesiologists

2006-present: Member, Board of directors, American Society of Critical Care

2010-12: Secretary, American Society of Critical Care Anesthesiologists (ASCCA)

2012-14: Treasurer, Society of Critical Care Anesthesiologists (formerly ASCCA)

2007-2008: Co-Chair, American Society of Critical Care Anesthesiologists annual meeting

2007-2010: Chairperson, Subcommittee on Critical Care, American Society of Anesthesiologists

2007-2010: Member, Scientific Advisory Committee, American Society of Anesthesiologists

2009-2011: Member, ASA task force on Central Line insertion guidelines

2007-2012: Member, SCCM task force on ICU sedation

2011-2015: Member, ASA Committee on Performance Outcomes and Measurement

2011-2014: Chair, Critical Care Educational Track Committee, ASA

2012-present: Member, Anesthesia Incident Reporting System steering committee, Anesthesia Quality Institute.

2012-2014: SCCM representative to the American Medical Association Physician Consortium for Performance Improvement Critical Care and Anesthesia work group

2013-present: Critical Care & Resuscitation section editor for Anesthesia & Analgesia

2016-present: President, Society of Critical Care Anesthesiologists

2014-present: Member, ASA Committee on Standards and Practice Parameters

2016-present: Member, ASA Task Force on moderate sedation

Various: Manuscript reviewer for Anesthesiology, Journal of Clinical Anesthesia, Sleep, Brain Research, Anesthesia Analgesia

PROFESSIONAL SOCIETIES

Elected or invited membership:

Association of University Anesthesiologists
Society of Critical Care Medicine (fellow)

Other:

American Society of Anesthesiologists
American Society of Critical Care Anesthesiologists (now SOCCA)
Illinois Society of Anesthesiologists
International Anesthesia Research Society
Society of Critical Care Medicine
American Burn Association
Sleep Research Society
Society of Critical Care Medicine

EDUCATIONAL EFFORT

The College (B.A., B.S.):

2002- 2006, 2010, 2012-present Guest lecturer, BioSci 24217 “The conquest of pain”

Pritzker School of Medicine (M.D.):

2001-07	Resuscitating the Patient in Trouble Orientation to the Clinical Biennium Pritzker School of Medicine Chicago, IL
2006-7	Medical Decision-making Orientation to the Clinical Biennium Pritzker School of Medicine Chicago, IL
2005	The Big Picture Keynote address, Pritzker School of Medicine 2 nd year class retreat Pritzker School of Medicine Chicago, IL
2005	The Role of Research in Modern Medicine Pritzker School of Medicine Freshman Retreat Pritzker School of Medicine Chicago, IL
2002-14	Anesthetics and Analgesics Clinical Therapeutics 307 2 lectures per year in the MS2 pharmacology course

2011-2015 Critical analysis of published literature
Foundations in Clinical Medicine
Rising 2nd year medical student class

1995-present: Daily rounding including ~2 medical students during 4 months per year on ICU service

Graduate medical education (residency and clinical fellowships):

(a) Didactic

1999-present: Bimonthly-Monthly CQI/M&M session involving case review, literature review and expert analysis.

2004-present: Yearly lecture on acid-base physiology to 1st year residents

2006-2013: Yearly lecture on mechanical ventilation to anesthesia residency class

(b) Clinical

1995-present Daily rounding including ~2 residents during 4 months per year on ICU service

1995-present Work with 1 resident one-on-one in intraoperative anesthetic administration

Research trainees:

(a) High school students and teachers

None

(b) Undergraduate (B.A., B.S.)

2000-2002 Debra Hiorns, Research Technician. Presently anesthesiologist

2002-2005 Bryan Bluhm, Research Technician. Currently emergency room physician

2006-2007 Martin Szafran, Research Technician. Currently anesthesiologist

(c) Medical (M.D.)

2009-2011 Daniel Rubin, M.D. Currently Critical care Physician/Associate quality chief

CLINICAL

1998-present Critical Care service (4 months per year)

1998-present OR Burn, cardiac and thoracic anesthesia (~5 months per year)

Various Emergency fill-in

SERVICE

University of Chicago

Committee membership:

2009-present Hospital Quality Committee

2007-2013 Departmental Clinical Competency Committee member

2006-present Quality Committee member

Leadership:

2007-present Quality Chief for Anesthesia

1998-present Director of Anesthesia services, Burn Unit