

**Harvard Medical School
Curriculum Vitae**

Date Prepared: April 15, 2017
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Place of Birth: Toronto, Canada

Education

6/2000	B.A.Sc.	Applied Science and Engineering (Chemical)	University of Toronto
6/2002	M.A.Sc.	Applied Science and Engineering (Biomedical)	University of Toronto
6/2005	Ph.D.	Applied Science and Engineering (Biomedical)	University of Toronto
5/2009	M.D.	Medicine	Boston University School of Medicine

Postdoctoral Training

6/2009-6/2010	Intern	Internal Medicine	Maimonides Medical Center
8/2010-8/2013	Resident	Anesthesia, Critical Care and Pain Medicine	Massachusetts General Hospital

Faculty Academic Appointments

9/2013 - 4/2016	Instructor	Anesthesia	Harvard Medical School
5/2016 - present	Assistant Professor	Anesthesia	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

9/2013 - present	Staff Anesthesiologist	Anesthesiology, Perioperative and Pain Medicine	Brigham and Women's Hospital
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Other Professional Positions

1998-2000	Staff Engineer	BreatheX Scientific Corporation
2000-2001	Teaching Assistant	University of Toronto
2000-2001	Research Student for Tayyaba Hasan, Ph.D.	Wellman Laboratories of Photomedicine, Massachusetts General Hospital
1999-2004	Computer Programmer	RIDA Management
1999-2005	Laboratory Director for Joseph Fisher, M.D.	University Health Network, Department of Anesthesia, University of Toronto
2001-2006	Executive Treasurer	BreatheX Scientific Corporation
2002-2008	Board of Directors	Sandbox Scientific Corporation
2002-	Engineering Consultant	Thornhill Research Incorporated
2009-	Founder	Slingshot Scientific LLC
2011-2015	Co-Founder	CheerWell LLC
2015-2016	Volunteer Physician	Camp Yavneh, New Hampshire

Major Administrative Leadership Positions

Local

2014 – present	Epic MD Lead for ECare	Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital
2016-	Implementation Lead for Qgenda scheduling software	Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital
2016-	Implementation Lead for new departmental website	Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital

Committee Service

Local

1997-2000	Chemical Engineering Faculty Council Representative	
1999-2000	Canadian Society for Chemical Engineers, University of Toronto	Treasurer

Regional

2013-	Massachusetts Medical Society	Committee Member, Committee for Information Technology
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Professional Societies

2005-2009	American Medical Students Association	Member
1999-2005	Professional Engineers of Ontario	Member
2007-2008	Engineers Without Borders	Member
2009	Gold Humanism in Medicine Society	Member
2009-2010	American Heart Association	Member
2009-	American Medical Association	Member

2013- Massachusetts Medical Society Member

Editorial Activities

2012- Journal of Respiratory Medicine Editorial Board Member

Honors and Prizes

1999	First Place	Engineering Design Competition	University of Toronto
1999-2000	Dean's List	Department of Chemical Engineering	University of Toronto
2000	Second Place	Ontario Engineering Competition	University of Toronto
2000	Third Place	Canadian Engineering Competition	University of Toronto
2001	Third Place	Outstanding Scientific and Educational Exhibit	American Society of Anesthesiologists Annual Meeting
2002	Award for Innovative Research Project	Department of Chemical Engineering	University of Toronto
2004	Canadian Intensive Care Foundation	Canadian Institute for Health Research	National Research Forum for Young Investigators
2005	First Place	L'Association de l'Industrie des Technologies de la Santé Innovation International Research Contest	
2006	Distinguished Dissertation Nominee		Canadian Association for Graduate Studies
2007	Exceptional Presentation Award	Hypoxia Symposium	
2008	Gold Humanism in Medicine Award	Boston University School of Medicine	
2015	Excellence in Anesthesia Award	Department of Anesthesia	Brigham and Women's Hospital
2015	Best Abstract Selection	Clinical Science	American Society of Anesthesiologists
2016	Shore Fellowship in Medicine	Brigham and Women's Hospital	Harvard University

Report of Funded and Unfunded Projects

Funding Information

Past

2003	Grant for Innovative Research Project, United States Marine Corps via University Health Network, Toronto, Canada (\$1 000 000)
2000	Ontario Graduate Scholarship in Science and Technology (\$10 000 CND)
2001	Open Scholarship (\$12 000 CND)
2006	Travel Grant, Boston University \$550
2007	Travel Grant, Boston University \$500

Current

2015	BWH Research Institute, \$1 000	Principle Investigator
2016	Harvard Medical School Eleanor and Miles Shore Fellowship, \$50 000	Fellowship Recipient

Current Unfunded Projects

2014-	PACU Respiratory Monitor Description: I am conducting an IRB-approved study of a breathing monitor on patients in the BWH recovery room. I designed and authored the study in all aspects, and am currently in the process of submitting a manuscript for publication.	Role: Principle Investigator
2015-	Preiss D, Minehart R. <i>A Survey of Residents and Attendings: Evaluating the Logistics and Goals of the Pre-Operative Phone Call.</i> Description: We are evaluating the effectiveness of the phone call that occurs between anesthesia residents and staff the evening before working together.	Role: Principle Investigator
2015-	Bond A, Preiss D. <i>Operating Room Name-Hat.</i> Description: We are exploring the use of placing name and role identifications on scrub caps in the preoperative setting, in an effort to improve interdisciplinary communication.	Role: Principle Investigator

Report of Local Teaching and Training

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2014-	Resident Summer Simulation Session	Annual Training Series
2014-	Resident Lecture – Inhalational Anesthetics	Annual Lecture
	Resident Lecture – An Introduction to Epic	Annual Lecture
	Resident Lecture – Out of OR Anesthesia	Annual Lecture
2015-	CRICO Simulation Team Training	Annual Training Series

Clinical Supervisory and Training Responsibilities

2013-	Perioperative Resident Educator and Trainer
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Formally Supervised Trainees

2014-	York Chen, MD Adam Von Samek, MD Kait Kamp MD I am mentoring York, Adam and Kait through their residencies in anesthesia with both clinical and professional supervision.	Residency Faculty Mentor
2015	Benjamin Abraham Drew, HMS Class of 2015	Research Rotation Advisor

I supervised Benjamin through his research rotation at HMS.

Local Invited Presentations

No presentations below were sponsored by outside entities

- 2010 *The Preoperative Assessment*
Chief Resident's Lecture
Department of Medicine, Maimonides Medical Center
- 2015 *Hypoxia, Altitude and Oxygen Delivery*
Grand Rounds, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

National

No presentations below were sponsored by outside entities

- 2000 Preiss D, Vesely A, Tesler J, Rucker J, Takeuchi A, Greenhouse B, Prisman E, Volgyesi G, Fedorko L, Duffin J, Slutsky A, Fisher JA. *Pulmonary diffusing capacity (DLCO) corrected for lung volume and PO₂ improves CFK predictions*. Presented at: American Thoracic Society; Ontario, Canada
- 2002 Preiss D, Iscoe S, Prisman E, Fisher JA. *Closed Circuit Anesthesia*. Presented at: American Society of Anesthesiologists; Orlando, FL.
- 2015 Preiss D, Minehart R. *A Survey of Residents and Attendings: Evaluating the Logistics and Goals of the Pre-Operative Phone Call*. Presented at: Society for Education in Anesthesia; Seattle, WA.
- 2015 Preiss DA, Drew BA, Gosnell J, Kodali BS, Philip JH. *A Thermodynamic Breathing Sensor: A New, Noninvasive Method of Monitoring Ventilation*. American Society of Anesthesia Annual Meeting

International

Those presentations below sponsored by outside entities are so noted and the sponsors are identified.

- 2001 Preiss D, Vesely A, Somogyi R, Sasano H, Prisman E, Fisher JA. *A portable device for isocapnia*. Presented at: International Hypoxia Symposium; Alberta, Canada
- 2002 Invited to High Altitude Research Expedition to La Paz (3550 m), Huayna Potosi (4575 m), and Chacaltaya (5280 m), Bolivia with the Birmingham Medical Research Expeditionary Society.
- 2003 Invited to High Altitude Research Expedition to Testa Grigia, Switzerland (3480 m) with the Birmingham Medical Research Expeditionary Society.
- 2003 Preiss D, Fisher JA. *A new method for the non-invasive measurement of cardiac output during spontaneous ventilation*. Presented at Luciano Bernardi Laboratory, Department of Internal Medicine, University of Pavia, Italy.
- 2004 Preiss D, Azami T, Ansel C, Fedorko L, Djaiani G, Volgyesi G, Slessarev M, Fisher JA. *A new method for the non-invasive measurement of cardiac output during spontaneous ventilation*. Presented at: Clinical Engineering Society of Ontario; Ontario, Canada.
- 2004 Invited to High Altitude Research Expedition to Almaty, Kazakhstan (3800 m). Sponsored by the United States Marine Corps.
- 2006 Preiss D, Azami T, Ansel C, Fedorko L, Djaiani G, Volgyesi G, Slessarev M, Fisher JA. *A new method for the non-invasive measurement of cardiac output during spontaneous ventilation*. Presented at: Biomedex Convention; Quebec, Canada.
- 2009 Invited to High Altitude Research Expedition to La Paz, Bolivia (4575 m) in collaboration with Gustavo Zubieta M.D., High Altitude Pulmonary and Pathology Institute, La Paz, Bolivia

Report of Clinical Activities and Innovations

Current Licensure and Certification

2013	Massachusetts Medical License
2014	Certification, American Board of Anesthesia
2016	Certification, ACLS

Practice Activities

2013-	Staff Anesthesiologist <i>Inpatient and outpatient anesthesia, main operating room and remote locations, including interventional radiology, endoscopy, CT/MRI, electrophysiology, radiation oncology, and the combined operative MRI suite.</i>	Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital	4 days per week
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Report of Technological and Other Scientific Innovations

Registered Patents

1. Chu E, Fisher JA, Iscoe S, Preiss D, Prisman E, Quinn T, Sasano H, Somogyi RB, Stenzler A, Vesely A, Volgyesi G. *Gas delivery mask with expiratory-, inspiratory- and dilution valves*. United States Patent Publication Number EP1402915 B1
2. Stenzler A, Fisher JA, Vesely A, Sasano H, Somogyi R, Volgyesi G, Iscoe S, Preiss D, Prisman E. *High FIO2 oxygen mask with a sequential dilution feature*. United States Patent Publication US20040060560 A1
3. Stenzler A, Quinn T, Chu E, Sasano H, Somogyi R, Volgyesi G, Iscoe S, Preiss D, Prisman E, Vesely A, Fisher JA. *High FIO2 oxygen mask with a sequential dilution feature and filter*. United States Patent Publication US20040084048 A1
4. Vesely A, Azami T, Preiss D, Prisman E, Adams T, Fisher JA. *A new method for continuous measurement of flux of gases in the lungs during breathing*. Canadian Patent Publication CA2379353 A1
5. Fisher JA, Preiss D, Azami T, Vesely A, Prisman E, Adams T. *Method for continuous measurement of flux of gases in the lungs during breathing*. United States Patent Publication 7913690, WO2003082390 A1
6. Fisher JA, Preiss D, Iscoe S, Azami T, Prisman E, Vesely A, Somogyi R. *Method of measuring cardiac related parameters non-invasively via the lung during spontaneous and controlled ventilation*. Canadian Patent Publication 8460202, WO2004073482 A3, US20130345586 A1
7. Fisher JA, Nayot D, Preiss D, Iscoe S, Azami T, Vesely A, Somogyi R, Adams T, Prisman E. *Breathing circuits to facilitate the measurement of cardiac output during controlled and spontaneous ventilation*. Canadian Patent Publication CA2419575 A1
8. Fisher JA, Azami T, Vesely A, Iscoe S, Prisman E, Preiss D. *A simple approach to precisely calculate O2 consumption, and anesthetic absorption during low flow anesthesia*. Canadian Patent Publication WO2004073481 A1 CA2521176 A1
9. Preiss D, Fisher JA, Somogyi R, Azami T, Vesely A, Prisman E, Iscoe S. *Breathing circuits to facilitate the*

measurement of cardiac output during controlled and spontaneous ventilation. United States Patent Publication 8,844,528, WO2004073779 A3

Report of Education of Patients and Service to the Community

Activities

- 2006 Article: A doctor in training speaks. *Jewish Advocate*; vol. 197, no. 17 (Apr 28, 2006), p. 17.
2013 Volunteer for Summer Research Trainee Program, Massachusetts General Hospital
2013 Community Outreach Program, Massachusetts General Hospital

Educational Material for Patients and the Community

Books, monographs, articles and presentations in other media

- 2013 Anesthesiology: A Comprehensive Board Review for Primary and Maintenance of Certification.
Ed: Matthes K, Urman R, Ehrenfeld J. (Preiss D, contributing editor)

Educational material or curricula developed for non-professional students

- 2013 Ortega R, Hindson D, Preiss D. (2008, February 11). *The Sellick Manoeuvre. An educational video for obstetrics residents.* Somogyi R, Preiss D, Vesely A, Prisman E, Tesler J, Volgyesi G,
2014 StartPrep Board Review for Anesthesia. *Chapter 153: Complications of Anesthesia: Temperature: Non-Malignant Hyperthermia.* The Stanford AIM Drive.

Patient educational material

- 2013 "Bier Block" iPhone Application In collaboration with Adam Bretholtz M.D., Pediatric Emergency Department, McGill University Health Centre, Canada

Report of Scholarship

Peer Reviewed Publications in Print or Other Media

1. Sasano N, Vesely AE, Hayano J, Sasano H, Somogyi R, **Preiss D**, Miyasaka K, Katsuya H, Iscoe S, Fisher JA. *Direct effect of Pa(CO₂) on respiratory sinus arrhythmia in conscious humans.* American Journal of Physiology 2002; Mar 282(3): H973-6. Cited in PubMed; PMID: 11834494.
2. Vesely A, Fisher JA, Sasano N, **Preiss D**, Somogyi R, El-Beheiry H, Prabhu A, Sasano H. *Isocapnic hyperpnoea accelerates recovery from isoflurane anaesthesia.* British Journal of Anaesthesia 2003; Dec 9(6): 787-92. Cited in PubMed; PMID: 14633745.
3. Somogyi R, Vesely AE, Azami T, **Preiss D**, Fisher J, Correia J, Fowler RA. *Dispersal of respiratory droplets with open vs closed oxygen delivery masks: implications for the transmission of severe acute respiratory syndrome.* Chest 2004; Mar 125(3): 1155-7. Cited in PubMed; PMID: 15006983.
4. Gilmore ED, Hudson C, Venkataraman ST, **Preiss D**, Fisher J. *Comparison of different hyperoxic paradigms to induce vasoconstriction: implications for the investigation of retinal vascular reactivity.* Investigative Ophthalmology and Visual Science 2004; Sept 45(9): 3207-12. Cited in PubMed; PMID: 15326142.

5. *Azami T, **Preiss D**, Somogyi R, Vesely A, Prisman E, Iscoe S, De Wolf AM, Fisher JA. Calculation of O_2 consumption during low-flow anesthesia from tidal gas concentrations, flowmeter, and minute ventilation. *Journal of Clinical Monitoring and Computing* 2004; Dec 18(5-6): 325-32. Cited in PubMed; PMID: 15957623.
6. *Somogyi RB, **Preiss D**, Vesely A, Fisher JA, Duffin J. *Changes in respiratory control after 5 days at altitude*. *Respiratory Physiology and Neurobiology* 2005; Jan 145(1): 41-52. Cited in PubMed; PMID: 15652787
7. Gilmore ED, Hudson C, **Preiss D**, Fisher J. *Retinal arteriolar diameter, blood velocity, and blood flow response to an isocapnic hyperoxic provocation*. *American Journal of Physiology* 2005; Jun 145(1): H2912-7. Cited in PubMed; PMID: 15708962.
8. Mikulis DJ, Krolczyk G, Desal H, Logan W, Deveber G, Dirks P, Tymianski M, Crawley A, Vesely A, Kassner A, **Preiss D**, Somogyi R, Fisher JA. *Preoperative and postoperative mapping of cerebrovascular reactivity in moyamoya disease by using blood oxygen level-dependent magnetic resonance imaging*. *Journal of Neurosurgery* 2005; Aug 103(2): 347-355. Cited in PubMed; PMID: 16175867.
9. Simchen MJ, Tesler J, Azami T, **Preiss D**, Fedorko L, Goldszmidz E, Fisher J, Kingdom J, Slorach C, Hornberger LK. *Effects of maternal hyperoxia with and without normocapnia in uteroplacental and fetal Doppler studies*. *Ultrasound in Obstetrics and Gynecology* 2005; Oct 26(5): 495-499. Cited in PubMed; PMID: 16180259
10. Somogyi RB, Vesely AE, **Preiss D**, Prisman E, Volgyesi G, Azami T, Iscoe S, Fisher JA, Sasano H. *Precise control of end-tidal carbon dioxide levels using sequential rebreathing circuits*. *Anaesthesia and Intensive Care* 2005; Dec 33(6): 726-732. Cited in PubMed; PMID: 16398376.
11. Slessarev M, Somogyi R, **Preiss D**, Vesely A, Sasano H, Fisher JA. *Efficiency of oxygen administration: sequential gas delivery versus "flow into a cone" methods*. *Critical Care Medicine* 2006; Mar 34(3): 829-834. Cited in PubMed; PMID: 16505664.
12. Slessarev M, Han J, Mardimae A, Prisman E, **Preiss D**, Volgyesi G, Ansel C, Duffin J, Fisher JA. *Prospective targeting and control of end-tidal CO₂ and O₂ concentrations*. *Journal of Physiology* 2007; Jun 581(3): 1207-1219. Cited in PubMed; PMID: 17446225.
13. ***Preiss D**, Fisher J. *A measure of confidence in Bland-Altman analysis for the interchangeability of two methods of measurement*. *Journal of Clinical Monitoring and Computing* 2008; Aug; 22(4) 257-259. Cited in PubMed; PMID: 18607545.
14. *Balaban DY, Regan R, Mardimae A, Slessarev M, Han JS, Wells GD, Duffin J, Iscoe S, Fisher JA, **Preiss D**. *A simple and portable breathing circuit designed for ventilatory muscle endurance training (VMET)*. *Respir Med* 2009; Dec 103(12):1822-7.
15. Slessarev M, Prisman E, Ito S, Watson RR, Jensen D, **Preiss D**, Greene R, Norboo T, Stobdan T, Diskit D, Norboo A, Kunzang M, Appenzeller O, Duffin J, Fisher JA. *Differences in the control of breathing between Himalayan and sea-level residents*. *J Physiol* 2010; May 1;588(Pt 9):1591-606.
16. Slessarev M, Mardimae A, **Preiss D**, Vesely A, Balaban DY, Greene R, Duffin J, Fisher JA. *Differences in the control of breathing between Andean highlanders and lowlanders after 10 days acclimatization at 3850 m*. *J Physiol* 2010 May 1;588 (Pt 9):1607-21.
17. Mardimae A, Han JS, **Preiss D**, Rodrigues L, Chennapragada SM, Slessarev M, Simons ME, Fisher JA.

Exaggerated increase in cardiac output during exercise in patients with peripheral high-flow arteriovenous malformations. J Vasc Interv Radiol 2011; Jan 22(1):40-6.

18. Balaban DY, Duffin J, **Preiss D**, Mardimae A, Vesely A, Slessarev M, Zubieta-Calleja GR, Greene ER, Macleod DB, Fisher JA. *The in-vivo oxyhaemoglobin dissociation curve at sea level and high altitude.* Respir Physiol Neurobiol. Respir Physiol Neurobiol. 2013; Mar : 186(1):45-52.
19. ***Preiss DA**, Urman RD, Azami T. *Variations in respiratory excretion of CO₂ can be used to calculate pulmonary blood flow.* J Clin Med Res 2015; Feb 7(2):83-90. Epub 2014 Nov 19.
20. Brovman EY, **Preiss D**, Urman RD, Gross WL. *The challenges of implementing electronic health records for anesthesia use outside the operating room.* Curr Opin Anaesthesiol. 2016 Aug;29(4):531-5
21. **Preiss D**, Drew BA, Gosnell J, Kodali BS, Philip JH, Urman RD. *Linshom thermodynamic sensor is a reliable alternative to capnography for monitoring respiratory rate.* J Clin Monit Comput. 2017 Feb 22. doi: 10.1007/s10877-017-0004-4.

* Denotes either co-first or co-senior authorship

[Non-peer reviewed scientific or medical publications/materials in print or other media](#)

Somogyi R, **Preiss D**, Vesely A, Prisman E, Tesler J, Volgyesi G, Fisher JA, Sasano H, Iscoe S.. *Behind the Mask. The Journal for Respiratory Care Practitioners.* (2002, October 1)

[Professional educational materials or reports, in print or other media](#)

2015	Epic Transition Tips Sheet	Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital
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[Thesis](#)

1999	<i>Isocapnic Hyperpnea Accelerates the Elimination of Methanol.</i> Co-Supervisors: John Doyle M.D. Ph.D. and Brad Saville Ph.D.
2002	<i>A New Method for Measurement of Gas Flux in the Lungs During Breathing.</i> Supervisor: Molly Shoichet Ph.D. University of Toronto, Department of Applied Science and Engineering (Biomedical, M.A.Sc.)
2005	<i>A New Method of Non-Invasively Measuring Cardiac Output During Spontaneous Breathing.</i> Supervisor; Arthur Slutsky, M.D., University of Toronto, Department of Applied Science and Engineering (Biomedical, Ph.D.)

[Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings \(Abbreviated to most recent 3 years\)](#)

1. **Preiss D.** *The Noise Becomes the Signal: Variations in Tidal Volume and Exhaled CO₂ Can Be Used To Calculate Pulmonary Blood Flow.* International Anesthesia Research Society Annual Meeting, San Diego, California 2013

2. **Preiss DA**, Minehart RD. *A Survey of Residents and Attendings Evaluating the Logistics and Goals of the Pre-Operative Phone Call*. Society for Education in Anesthesia Spring Meeting 2015.
3. Gross, WL, Blaney EJ, **Preiss DA**, Stewart JD, Chen C, McNicholl D, Urman RD, Vacanti JC, Bond AR, Pilon RN. *Care Redesign and Non-OR Anesthesia (NORA): A Strategic Imperative – the Data Speak*. American Society of Anesthesia Annual Meeting 2015. 15-A-4732-ASAHQ.
4. **Preiss DA**, Minehart RD. *A Survey of Residents and Attendings Evaluating the Logistics and Goals of the Pre-Operative Phone Call*. American Society of Anesthesia Annual Meeting 2015.
5. **Preiss DA**, Drew BA, Gosnell J, Kodali BS, Philip JH. *A Thermodynamic Breathing Sensor: A New, Noninvasive Method of Monitoring Ventilation*. American Society of Anesthesia Annual Meeting 2015
6. Chen Y, Vacanti J, Flanagan H, Sullivan E, **Preiss DA**. *Improving PACU Communication and Efficiency Through a Mobile Software Application* Poster Presentation at the 2016 Annual Meeting of the American Society of Anesthesiologists.
7. Taggart I, **Preiss DA**, Vacanti J. *Video Laryngoscopes Improve OR Efficiency and Reduce Anesthesia-Controlled Time Compared With Fiberoptic Intubation* Poster Presentation at the 2016 Annual Meeting of the American Society of Anesthesiologists.
8. Gabriel R, **Preiss DA**, Vacanti J. *Patient and Anesthetic Factors Associated With an Increased Post-Anesthesia Care Unit Length of Stay* Poster Presentation at the 2016 Annual Meeting of the American Society of Anesthesiologists.