

## Curriculum Vitae

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### Education:

1997	B.A. <i>Magna cum laude, Phi Beta Kappa</i>	Religious Studies- Concentration in Philosophy	Yale College New Haven, CT
1998	Postbaccalaureate Premedical Program	Premedical	Goucher College, Towson, Maryland
2006	M.D. <i>Alpha Omega Alpha</i> , Janeway Prize for the highest achievement and abilities in the graduating class	Medicine	College of Physicians and Surgeons, Columbia University, New York, NY
2011	Program in Clinical Effectiveness		Harvard School of Public Health, Boston, MA
2013	Masters of Science	Epidemiology	Harvard School of Public Health, Boston, MA

### Postdoctoral Training:

7/06-6/07	Intern	Medicine	Brigham and Women's Hospital, Boston, MA
7/07-6/10	Resident	Anesthesia	Massachusetts General Hospital, Boston, MA
1/10-1/11	Chief Resident	Anesthesia	Massachusetts General Hospital, Boston, MA

**Faculty Academic Appointments:**

1/11-11/15	Assistant Professor	Department of Anesthesia, Critical Care, and Pain Medicine (DACCPM)	Harvard Medical School, Boston, MA
11/15-	Associate Professor	Department of Anesthesia, Critical Care, and Pain Medicine; Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital	Harvard Medical School, Boston, MA

**Appointments at Hospitals/Affiliated Institutions:**

7/11- 3/17	Anesthesiologist	Department of Anesthesia, Critical Care, and Pain Medicine	Massachusetts General Hospital
2/12-	Researcher	Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine	Brigham and Women's Hospital
3/17-	Anesthesiologist	Department of Anesthesiology, Perioperative and Pain Medicine	Brigham and Women's Hospital

**Other Professional Positions:**

1998-1999	High School Biology and Earth Sciences Teacher	Parkwest High School, New York, NY
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1999-2001	Research Assistant in Ambrose Cheung's Laboratory	Dartmouth Medical School, Hanover, NH
2016	Consultant	Optum, Inc
2018-2020	Consultant	Action, Inc
2015-	Consultant	ALOSA Foundation

**Major Administrative Leadership Positions:**

**Local**

2012-2016	Fellowship Co-Director, Perioperative Health Services Research Fellowship	Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital
2017-	Chief, Division of Obstetric Anesthesia	Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital
2017-	Co-Director, Harvard Program on Perinatal and Pediatric Pharmacoepidemiology (H4P)	Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital
2019-	Vice Chair for Faculty Development; member of Department Executive Committee	Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital

**International**

2016-2020	Member, Board of Directors	Society for Obstetric Anesthesia and Perinatology
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**Committee Service:**

**Local**

2010	Internal Review Committee	Geriatric Medicine Fellowship,
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		Massachusetts General Hospital
2010- 2011	Resident Clinical Competency Committee	Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital
2010- 2013	Residency Recruiting Committee	Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital
2011-2012	Research Mentoring Committee	Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital
2011-2016	Clinical Research Advisory Committee	Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital
2013	Data Safety Monitor Board	Phase I clinical trial conducted at Children's Hospital, Boston
2013	Clinical Research Grants Study Section	Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital
2013-2016	Chair, Clinical Research Advisory Committee	Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital
2018-	Research Advisory Committee	Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital
2020-	Faculty Develop and Junior Promotions Committee	Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital

2020-	Neuroanesthesia Division Chief Search Committee	Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital
2020-	Diversity, Equity, and Inclusion Committee	Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital
<b>Regional</b>		
2012-2019	Massachusetts Maternal Mortality Review Committee	Department of Public Health, Commonwealth of Massachusetts
2015	Obstetrical Advisory Group focused on the measurement of obstetrical complications and trauma	Blue Cross Blue Shield of Massachusetts
<b>National</b>		
2014	Temporary voting member, Anesthetic and Analgesic Drug Products Advisory Committee	Food and Drug Administration
2015-2019	Standing member, Anesthetic and Analgesic Drug Products Advisory Committee	Food and Drug Administration
2015-2020	Data Use Committee	Anesthesia Quality Institute
2016	Technical Advisory Panel (TAP) for new pain management standards	The Joint Commission
2017-2018	Subcommittee on Opioid Misuse in Medicaid	Institute for Medicaid Innovation
2017	Panelist, Packaging, Storage, and Disposal Options to Enhance Opioid Safety: Exploring the Path Forward Workshop	Food and Drug Administration
2018	Member, Opioid Prescribing Estimates Workgroup	National Center for Injury Prevention and Control, Centers for Disease Control and Prevention

2019-2020	Treatments for Acute Pain Technical Expert Panel	Agency for Healthcare Research and Quality Systematic Review
2020-	The Equitable Maternal Health Coalition Data Workgroup	Equitable Maternal Health Coalition (organized by the March of Dimes)

**International**

2015	Expert panel; Invasive Placentation: Clinical Guideline Development	Women and Babies Program, Department of Evaluative Clinical Sciences, Sunnybrook Research Institute
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**Professional Societies:**

2011-present	Society for Obstetric Anesthesia and Perinatology	Member
	2011-present	Research Committee
	2016-2020	Board of Directors (Journal Liaison)
2011-present	American Society of Anesthesiology	Member
	2012-2014	Abstract Review Subcommittee on Obstetric Anesthesia and Perinatology
	2015	Consultant for the “Practice Guidelines for Obstetric Anesthesia”
2013-2016	Association of Women’s Health, Obstetric & Neonatal Nurses (AWHONN)	Expert Panel Member, Anesthesia representative, Obstetrical Hemorrhage Quality Improvement Project
		Data Panel Member, Obstetrical Hemorrhage Quality Improvement Project

2014	American Academy of Orthopaedic Surgeons/American Society of Anesthesiology	Panel Member, Consensus statement for the Clinical Practice Guideline on the Management of Hip Fractures in the Elderly
2014-2015	American Congress of Obstetrics and Gynecology/American Society of Anesthesiology	Maternal Quality Improvement Program (MQIP) Advisory Committee
2013-	International Society of Pharmacoepidemiology	Co-developed and taught Modern Pregnancy Pharmacoepidemiology Methods course given at the annual meeting

**Grant Review Activities:**

2011	Invited External Grant Reviewer	Australian Government National Health & Medical Research Council
2012	Invited External Grant Reviewer	The Netherlands Organization for Health Research & Development
2013	Temporary Member	NHLBI Clinical Trials Review Committee, March, 2013
2013	Temporary Member	NHLBI Clinical Trials Review Committee, October, 2013
2015	Grant Reviewer	Gertie Marx Grant, Society for Obstetric Anesthesia and Perinatology
2017	Merit Reviewer and substitute Section Chair	Patient Centered Outcomes Research Institute (PCORI) Study Section, March 2017

2017	Grant Reviewer	NIDA, Special Emphasis Panel/Scientific Review Group, July 2017
2017	Grant Reviewer	Harvard Catalyst Data Ideation Challenge October 2017
2017	Grant Reviewer	Write in reviewer, NICHD, November 2017
2018	Grant Reviewer	NIDA, Multisite reviewer, February 2018
2018	Grant Reviewer	Development of Medications to Prevent and Treat Opioid Use Disorders and Overdose—NIDA, Special Emphasis Panel. May 16, 2018
2018	Grant Reviewer	Israel Society of Anesthesia grant, October 29, 2018
2018	Grant Reviewer	Maternal, Newborn, Child, and Youth Strategic Clinical Network's (MNCY SCN), Calgary Alberta February 25, 2019
2018	Grant Reviewer/Meeting chair	NIDA, Special emphasis panel, March 7, 2019
2019	Grant Reviewer	NIDA, Special emphasis panel, May 22, 2019
2019	Grant Reviewer	Health Research Board, Ireland

### **United States Food and Drug Administration Advisory Committee Meetings**

<b>Date</b>	<b>Committee</b>	<b>Role</b>
June 11-12, 2014	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member



November 24-25, 2014	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
September 10, 2015	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
September 11, 2015	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
May 3-4, 2016	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
May 5, 2016	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
June 7, 2016	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
August 5, 2016	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
September 15-16, 2016	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
October 5, 2016	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
March 13-14, 2017	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
April 5, 2017	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
September 14, 2017	Anesthetic and Analgesic Drug Products Advisory Committee	Acting Chairperson
February 14, 2018	Anesthetic and Analgesic Drug Products Advisory Committee	Voting member
August 3, 2018	Joint meeting of the Drug Safety and Risk Management Advisory Committee and the Anesthetic and Analgesic Drug Products Advisory Committee	Acting Chairperson
November 14, 2018	Joint meeting of the Drug Safety and Risk Management Advisory Committee and the	Acting Chairperson

Anesthetic and Analgesic Drug  
Products Advisory Committee

September 10/11, 2020

Joint meeting of the Drug  
Safety and Risk Management  
Advisory Committee and the  
Anesthetic and Analgesic Drug  
Products Advisory Committee

Voting member

November 2, 2020

Joint meeting of the Drug  
Safety and Risk Management  
Advisory Committee and the  
Anesthetic and Analgesic Drug  
Products Advisory Committee

Acting Chairperson

**Editorial Activities:**

• **Ad hoc Reviewer**

*\*Indicates 5 or more reviews*

*Anesthesia and Analgesia\**

*American Journal of Epidemiology*

*American Journal of Obstetrics and Gynecology\**

*American Journal of Perinataology*

*American Journal of Preventive Medicine*

*American Journal of Respiratory and Critical Care Medicine*

*Anesthesiology\**

*Journal of Clinical Anesthesia*

*British Journal of Obstetrics and Gynecology*

*BMC Pregnancy and Childbirth*

*BMJ Quality and Safety*

*British Medical Journal*

*British Journal of Anesthesia*

*Circulation\**

*Circulation: Cardiovascular Quality and Outcomes*

*Clinical Pharmacology & Therapeutics*

*Drug and Alcohol Dependence*

*Drug Safety*

*Epidemiology*

*European Journal of Neurology*

*European Journal of Obstetrics and Gynecology and Reproductive Medicine*

*Intensive Care Medicine*

*International Journal of Stroke*

*New England Journal of Medicine\**

*Pediatric Research*

*Perioperative Medicine*

*PLoS One*

*PLoS Medicine*

*Pharmacoepidemiology and Drug Safety*

*Hypertension*

*The Joint Commission Journal on Quality and Patient Safety*

*Journal of Women's Health*

*JAMA*

*JAMA Pediatrics*

*JAMA Internal Medicine*

*JAMA Network Open*

*JAHA-Journal of the American Heart Association*

*Journal of Obstetrics and Gynaecology Research*

*Journal of Neurosurgical Anesthesiology*

*Perioperative Medicine*

*Obstetrics and Gynecology\**

*Transfusion*

*Tropical Medicine & International Health*

• **Other Editorial Roles**

2014-2020	Associate Editor	Anesthesiology (>250 completed reviews)
2021	Editor	Anesthesiology
2019-present	Associate Editor	Frontiers in Global Reproductive Health
2014	Expert Reviewer	Evidence Review “Management of Postpartum Hemorrhage”, Agency for Healthcare Research & Quality Report
2018	Associate Editor	Chestnut’s Obstetric Anesthesia: Principles and Practice. 6 <sup>th</sup> edition
2019	Reviewer	“Framing Opioid Prescribing Guidelines for Acute Pain: Developing the Evidence”, National Academy of Medicine
2020	Reviewer	“Treatments for Acute Pain: A Systematic Review" for the AHRQ Evidence-based Practice Center Program
2020	Reviewer	Doctoral thesis from the Faculty of Health Sciences, University of Witwatersrand, Johannesburg, South Africa
2020	Associate Editor	Colorado’s Opioid Solution: Clinicians United to Resolve the Epidemic (CO’s CURE) Obstetrics and Gynecology 2020 Opioid Prescribing and Treatment Guidelines

## Honors and Prizes:

2005	Alfred Steiner Award for Most Outstanding Medical Student Research, Dean's Day Poster Session	Columbia University College of Physicians and Surgeons	
2006	Elected to the Arnold P. Gold Humanism Honors Society	Columbia University College of Physicians and Surgeons	
2006	The Doctors William Nastuk, Beatrice Seegal, Konrad Hsu Award	Columbia University College of Physicians and Surgeons	To a graduating student who has demonstrated successful research collaboration between student and faculty
2006	Virginia P. Apgar Award	Columbia University College of Physicians and Surgeons	For Excellence in Anesthesia and Critical Care
2006	Janeway Prize	Columbia University College of Physicians and Surgeons	For the highest achievement and abilities in the graduating class
2008	Foundation for Anesthesia Education and Research /Abbott Resident Scholar	American Society of Anesthesiologist Annual Meeting	
2009, 2012	Research Abstract Selected as one of 12 Best Abstracts of Meeting	American Society of Anesthesiologist Annual Meeting	
2009	Manuscript "Perioperative Acute Ischemic Stroke in Non-Cardiac and Non-Vascular Surgeries:	Journal <i>Anesthesiology</i>	The review highlighted "articles that the Editorial Board believed exemplified the mission of Anesthesiology, to advance

Incidence, Risk factors and Outcomes”, was one of 12 articles in the *Anesthesiology* 2009 Year in Review.

the science and practice of perioperative, critical care, and pain medicine through the promotion of seminal discovery.”

2011, 2012, 2014, 2015, 2019, 2020	Research Abstract Selected as one of 6 Best Papers of the Meeting	Society of Obstetric Anesthesiology and Perinatology Annual Meeting
2011	Research abstract, “The Influence of Patient Co-Morbidities on the Risk of Near-miss Maternal Morbidity and Mortality” Awarded Best Patient Safety Paper (Co-first author)	Society of Obstetric Anesthesiology and Perinatology Annual Meeting
2011	Research abstract “Exome sequencing in severe, early-onset preeclampsia” 2 <sup>nd</sup> prize, departmental award (first author)	MGH Clinical Research Day
2012	Research abstract “Hypertension risk variants and risk of preeclampsia” 2 <sup>nd</sup> prize, departmental award (second author)	MGH Clinical Research Day
2012, 2013	Top 10% of Reviewers	<i>Journal Anesthesiology</i>
2013	Selected for NIH loan repayment program	National Institutes of Child Health and Human Development

2014	First author of paper (Type of stress ulcer prophylaxis and the risk of nosocomial pneumonia in cardiac surgical patients: a cohort study) awarded the American Society of Health-System Pharmacist Literature Drug Therapy Research Award	
2015	Research abstract: “Labor Induction and Offspring Risk of Autism Spectrum Disorder” won second-prize Best Papers of the Meeting session (first author)	Society of Obstetric Anesthesiology and Perinatology Annual Meeting
2015	Research abstract, “Labor Induction and Offspring Risk of Autism Spectrum Disorder” Awarded Runner-up for Best Patient Safety Paper (first author)	Society of Obstetric Anesthesiology and Perinatology Annual Meeting
2015	Elected to the Association of University Anesthesiologist	
2016	Research abstract, “Peripartum sepsis: A case control study” Awarded Best Patient Safety Paper (Senior author)	Society of Obstetric Anesthesiology and Perinatology Annual Meeting
2016	First prize, Gertie Marx Competition for the Best Abstract	Society of Obstetric Anesthesiology and Perinatology Annual Meeting

Presented by a  
Resident/Fellow  
(Senior author)

2017	Top Reviewer	Pharmacoepidemiology and Drug Safety	
2017	First prize, Gertie Marx Competition for the Best Abstract Presented by a Resident/Fellow (Senior author)	Society of Obstetric Anesthesiology and Perinatology Annual Meeting	
2017	Gerald Ostheimer Memorial Lecturer	Society of Obstetric Anesthesiology and Perinatology	Honors “a leading clinician, research scientist, and/or educator who has made significant contributions to the field of obstetric anesthesia”
2018	James E. Cottrell Presidential Scholar Award	American Society of Anesthesiologists	Given to one clinical- scientist each year within 10 years of initial faculty appointment for accomplishment in research.
2019	First Prize (Clinical research), Best Abstract of Meeting (First author)	Society of Obstetric Anesthesiology and Perinatology Annual Meeting	
2019	Nominated for Honorary Citizen of Hanoi, Vietnam designation		For leading collaboration between Brigham and Women’s Hospital and Hanoi Hospital for Obstetrics and Gynecology
2020	First Prize (Clinical research), Best Abstract of Meeting (Senior author)	Society of Obstetric Anesthesiology and Perinatology Annual Meeting	



## **Report of Funded and Unfunded Projects**

### **Past**

- 2004-2004    Studies in stroke epidemiology (PI: Bateman)  
Doris Duke Clinical Research Fellowship  
Medical student mentored research training grant  
Goal: Performed mentored research focused on the epidemiology of stroke treatment
- 2011-2012    Case-crossover study of triggers of preterm labor/rupture of membranes (co-PI: Hernandez-Diaz/Bateman)  
Harvard School of Public Health Incubator Grant  
Co-Principal Investigator  
Goal: To define potentially modifiable triggers of preterm labor and rupture of membranes
- 2011-2012    Training in the epidemiology of pregnancy-related disorders (PI: Miller)  
Basic Science Research Training for Anesthetists  
T32 GM007592  
Role: T32 Trainee  
Goal: To receive training in the conduct of epidemiologic research, focused on pregnancy-related disorders
- 2013-2015    The Genetic Predisposition to Cardiovascular Disease and the Risk of Preeclampsia (co-PI: Saxena/Bateman).  
Gertie Marx Research Award  
Co-Principal Investigator  
Goal: To define the association between CV disease risk variants on the risk of preeclampsia
- 2016-2017    Thromboembolic outcomes with the FEIBA and rFVIIa  
Baxalta  
Principal investigator  
To conduct the assessment of thromboembolic outcomes associated with the FEIBA and/or rFVIIa in hemophilia A and hemophilia B patients with inhibitors
- 2017            FDA Scientific Inquiry related to Opioid Prescribing  
Lead Investigator  
Study defined opioid prescribing patterns in the primary care setting in response to a FDA request under Scientific Program to Support Pharmacoepidemiologic Investigations of Safety Related Issues of Marketed Drugs, and Evaluations of Risk Communications and Management Programs contract
- 2016-2017    Using Claims Data to Define Opioid Misuse and Abuse  
Pfizer Inc. (PI: Bateman)  
Principal Investigator  
To implement published claims-based algorithms to identify patients with potential opioid misuse/abuse based on opioid filling patterns and to validate these algorithms with outcomes of physician-diagnosed opioid abuse or overdose. To identify those

components of the previously described algorithms with the best performance characteristics and to integrate these into a novel, claims-based algorithm for identifying opioid abuse/misuse based on opioid filling patterns.

- 2013-2017 Hypertensive disorders and diabetes during pregnancy and development: A nationwide study of the Icelandic birth cohort (PI: Zoega)  
Icelandic Centre for Research 130814-051  
Co-Principal Investigator  
Goal: To examine the long-term neurocognitive effects of in-utero exposure to maternal hypertensive disorders and diabetes
- 2013-2018 Comparative safety and effectiveness of antihypertensives in pregnancy National Institute Of Child Health & Human Development of the National Institutes of Health/K08HD075831 (PI: Bateman)  
Principal Investigator  
To define the comparative safety and effectiveness of antihypertensive medications commonly used during pregnancy
- 2016-2018 Observational Studies to Assess Maternal and Fetal Outcomes Following Exposure to a Pain Medication (PI: Huybrechts)  
Eli Lilly and Company  
Co-Principal Investigator  
To evaluate maternal and fetal/infant outcomes associated with exposure to a pain medication in order to meet the Food and Drug Administration requirement for post-marketing surveillance.
- 2017-2019 Ondansetron and risk of congenital malformations  
NIH: National Institute of Child Health and Human Development/R03HD091699  
01(PI: Krista Huybrechts)  
Co-Investigator  
R03 reviewed in October 2016 and received an impact score of 10, 1st percentile.  
The study objective is to evaluate the risk of congenital heart defects and cleft palate associated with ondansetron use during pregnancy in a national cohort we developed of 1.6 million pregnancies covered by Medicaid.
- 2017-2019 Pregnancy Registries Nested in International Pooled Health Care Databases  
NIH: National Institute of Child Health and Human Development/R21HD092879  
01(PI: Sonia Hernandez-Diaz)  
Co-Investigator  
To develop methodology to for pooling data from the United States, Denmark, Finland, Iceland, Norway, and Sweden to study drug safety in pregnancy.
- 2016-2018 Observational Cohort Study to Assess Maternal Asthma During Pregnancy and Fetal Outcomes  
GSK  
Site-PI (PI: Sonia Hernandez-Diaz)  
specifically identifying asthma and asthma severity in women in the MAX pregnancy cohort and the impact of this condition on relevant infant outcomes.

## Current

- 9/30/2019-9/29/2022 Engaging clinicians to improve opioid safety and reduce overdose risk  
Centers for Disease Control and Prevention  
(PI: Michael Fischer)  
Co-Investigator  
The goal of the proposed study is to evaluate the impact of an academic detailing program that aims to improve opioid prescribing.
- 9/1/2019-5/31/2024 Comparative Safety of Non-Insulin Agents in Pregnant Women with Pregestational Diabetes.  
NIH: National Institute of Child Health and Human Development/R01HD097778 (PI: Sonia Hernandez-Diaz)  
Co-Investigator  
The goal of the proposed studies are to define the comparative safety of medications used to treat pre-existing diabetes in pregnancy.
- 9/15/2017-7/31/2021 The Impact of Prescription Opioid Use on Pregnancy Outcomes  
NIH: National Institute on Drug Abuse/1R01DA044293-01A1 (PI: Brian Bateman)  
Principal investigator  
*Reviewed in June 2017 and received an impact score of 14, 1st percentile.*  
The goal of the proposed study is to provide robust information on the effects of prescription opioid use during pregnancy.
- 9/28/2017-9/27/2021 Developing the Capability of Using National Medicaid Data for FDA Post-Marketing Surveillance to Assess Medication Safety During Pregnancy  
Food and Drug Administration (PI: Krista Huybrechts)  
Co- Principal Investigator  
The goal of the proposed study is to define methods to use nationwide Medicaid healthcare utilization data to study medication safety during pregnancy.
- 6/15/2018-3/31/2023 In-utero exposure to psychotropic medications and the risk of neurodevelopmental disorders  
NIH: National Institutes of Mental Health/1 R01 MH116194-01  
Co-Investigator (PI: Krista Huybrechts)  
To identify the impact of psychotropic medication use during pregnancy on the risk of neurodevelopmental disorders in the offspring.
- 8/1/2018-5/31/2021 Epidemiology and risk of antipsychotic use in hospitalized elderly with delirium  
NIH: National Institutes of Aging/1R01AG056368-01A1  
Co-Investigator (PI: Dae Kim)  
To determine the epidemiology and risk of the off-label use of antipsychotics and their alternatives in hospitalized older adults with postoperative delirium.
- 7/1/2018-6/30/2021 Acute Pain Management and Long-term Opioid Use after Surgery  
National Institute of Drug Abuse of the National Institutes of Health/1R01DA042299-01A1  
Co-Investigator (PI: Wunsch/Neuman)

Using data from the US and Canada, this study will identify which patients are at highest risk of taking opioid medications long-term after surgery and will assess ways to try to decrease that risk.

- 4/1/2019-3/31/2024 Randomized cardiovascular trials duplicated using prospective longitudinal insurance claims: applying techniques of epidemiology (RCT DUPLICATE)  
NIH: National Heart, Lung, and Blood Institute  
Co-Investigator (PI: Jessica Franklin)  
The proposed project provides fundamental knowledge on what types of clinical questions can be answered with real world data and with which methods. Findings will impact public health by improving the conduct of real-world data studies.
- 4/1/2020-12/30/2023 The Comparative Effectiveness and Safety of Pharmacotherapies for the Treatment of Opioid Use Disorder in Pregnancy  
NIH: National Institute on Drug Abuse/ 1R01DA049822-01 (PI: Bateman/Huybrechts)  
Principal investigator  
*Reviewed in June 2019 and received an impact score of 16*  
The goal of the study is to establish the approach to the treatment of opioid use disorder in pregnancy that is safest and most effective.
- 8/2020-7/2021 Postpartum Opioid Related Mortality in Medicaid Patients  
NIH: National Institute on Drug Abuse/ 3R01DA049822-01(PI: Bateman/Huybrechts)  
Principal Investigator  
Administrative supplement  
To define patterns of opioid-related mortality in pregnancy and the postpartum in Medicaid beneficiaries
- 9/2020-7/2024 Drug interactions and opioid-related emergency room visits and hospitalizations among older adults  
Agency for Healthcare Research and Quality/ /R01HS027623 (PI:Gagne)  
Co-Investigator  
To evaluate drug-drug interactions and the risk for increasing opioid-related adverse outcomes.

### **Training Grants and Mentored Trainee Grants**

- 2019- Genome Wide Association Study of Patients with History of Postpartum Hemorrhage  
Mentored Research Training Grant, Foundation for Anesthesia Education and Research  
Co-Mentor/PI: Vesela Kovacheva  
To define maternal genetic variants by performing the first genome-wide association study of PPH. These results will identify novel targets for PPH prediction and therapy.

- 2019-2020 Second-line Uterotonics in Postpartum Hemorrhage: A Randomized Clinical Trial.  
BWH Faculty Career Development Award  
Mentor/PI: Naida Cole  
To evaluate the comparative effectiveness of methergine versus hemabate for the treatment of uterine atony
- 2019- Tranexamic Acid Administered After Delivery: Maternal Pharmacokinetics, Pharmacodynamics, and Coagulation Status.  
Society of Obstetric Anesthesia and Perinatology (SOAP) Young Investigator Grant  
Mentor/PI: Sara Seifert  
To model the PK/PD of tranexamic acid for the prevention of severe postpartum hemorrhage
- 2019- Tranexamic Acid and ROTEM  
BWH Anesthesiology seed grant  
Mentor/PI: Michaela Farber  
To examine the relationship between TXA PK/PD and ROTEM parameters

### **Report of Local Teaching and Training**

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

2011-2012	Introduction to airway management Anesthesia Residents	Massachusetts General Hospital 2 hours/year
2011-2016	Sedative/hypnotic drugs Anesthesia Residents	Massachusetts General Hospital 2 hours/year
2011-2016	Obstetric emergencies Anesthesia Residents	Massachusetts General Hospital 2 hours/year
2013-2015	Drug safety study in perioperative setting Medicine Residents	Brigham and Women's Hospital 1 hour/year
2017-	Lectures in obstetric anesthesia	Brigham and Women's Hospital 2-3 hours/month

#### **Clinical Supervisory and Training Responsibilities:**

2011-present	Supervise residents in the operating room and on labor and delivery floor	1 day per week and during call
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2012-2014 Leader, Departmental Journal Club; 4 times per year, anesthesia residents,  
Department of Anesthesia, Critical Care, fellows, faculty  
and Pain Medicine, Massachusetts  
General Hospital

**Formally Mentored Harvard Medical, Dental and Graduate Students:**

2014-2015 James Baker/Harvard Dental Student  
Mentored student in a study examining patterns of opioid prescribing after dental surgery; Awarded the Judah Folkman Prize for Clinical / Translational Science Research at the Soma Weiss Student Research Day at HMS; Research published in *JAMA*. Manuscript #78 in the Report of Scholarship

**Other Mentored Trainees and Faculty:**

2011 Vanessa Olbrecht/ Assistant Professor in the Department of Anesthesia at Cincinnati Children's Hospital Medical Center  
Mentored resident in completion of research project on subarachnoid hemorrhage in the peripartum period; 2<sup>nd</sup> prize in Gertie Marx completion at Society of Obstetric Anesthesiology and Perinatology Annual Meeting; Research published in *Anesthesiology*. Publication #21 in the Report of Scholarship

2011 Jonathan Wanderer/ Associate Professor, Department of Anesthesiology, Vanderbilt University  
Mentored resident in completion of research project on peripartum ICU utilization; oral presentation at Society of Obstetric Anesthesiology and Perinatology Annual Meeting; Research published in *Critical Care Medicine*. Publication #40 in the Report of Scholarship

2012 Matthew Sigakis/Faculty, University of Michigan  
Mentored resident in completion of research project on ICD 9 validation of obstetric morbidity diagnoses; poster presentation at Society of Obstetric Anesthesiology and Perinatology Annual Meeting; Research published in *Anesthesia and Analgesia*. Publication #88 in the Report of Scholarship

2012 Ade Haastrup/Private Practice  
Mentored resident in completion of research project on peripartum cardiomyopathy; poster presentation at Society of Obstetric Anesthesiology and Perinatology Annual Meeting

- 2014 Ayumi Maeda/Faculty, Tokyo  
Mentored resident in completion of research project on opioid abuse and obstetric outcomes; Top 6 abstracts selected for Gertie Marx resident research completion at Society of Obstetric Anesthesiology and Perinatology Annual Meeting; Research published in *Anesthesiology*. Publication #49 in the Report of Scholarship
- 2014-2015 Karim Ladha/Faculty, University of Toronto  
Mentored this fellow during his participation in the Health Services Research Fellowship; this work led to the completion of 2 manuscripts published in *Anesthesiology*; #81, 82 in the Report of Scholarship
- 2016 Emily McQuaid/Private Practice, Montana  
Mentored this fellow in the completion of a research project during her OB anesthesia fellowship/Podium presentation, SOAP meeting, manuscript published in *Obstetrics and Gynecology*, Publication #107 in the Report of Scholarship
- 2016 Fridgeir Andri Sverrisson/Doctoral student  
External advisor for Master's thesis, University of Reykjavík
- 2015-2018 Malavika Prabhu/Maternal Fetal Medicine Fellow  
Mentored fellow in completion of a research project during her MFM fellowship, manuscripts published in *Obstetrics and Gynecology*, Publication #107, in the Report of Scholarship
- 2015-2017 Mallika Mundkur/Medical officer, Food and Drug Administration,  
Mentored fellow in completion of a research project during her general medicine fellowship; manuscript published in *Pharmacoepidemiology and Drug Safety*, Publication #126 the Report of Scholarship
- 2016-2017 Kathryn Rough/ Scientist at Google  
Mentored as doctoral student at the Harvard School of Public Health and as a postdoctoral fellow. Publications #87 and 150 in the Report of Scholarship
- 2017-2018 Naida Cole/Faculty at BWH  
Mentored this fellow in the completion of a research project during her OB anesthesia fellowship. Manuscript in preparation
- 2017-2019 Sarah Rae Easter/Faculty at BWH  
Mentored fellow in completion of a research project during her MFM fellowship, manuscripts published in *Obstetrics and Gynecology* and the *American Journal of Obstetrics and Gynecology*, Publication #139 and 140 in the Report of Scholarship

- 2017-2019 Erica Holland/Faculty at Boston Medical Center  
Mentored fellow in completion of a research project during her MFM fellowship, manuscripts published in *Obstetrics and Gynecology*. Publication #140 in the Report of Scholarship
- 2017-2019 Emily Naoum/Fellow at University of Michigan  
Mentored resident in completion of a review article, manuscript published in *Anesthesiology*. Publication #15 in Review articles.
- 2016-2018 Yoonyoung Park/Scientist at IBM  
Part of team that mentored student during her doctoral studies at the Harvard School of Public Health; manuscripts published in *American Journal of Psychiatry* and *BMJ*. See publication #128, 129 in the Report of Scholarship
- 2017- Vesela Kovacheva/Faculty at Brigham and Women's Hospital  
Co-mentor for Foundation for Anesthesia Research (FAER) grant career development award
- 2018-2019 Rochelle Molitor/Faculty at the Mayo Clinic  
Mentored fellow in a project examining location of delivery for women with abnormal placentation. Abstract presented at the Society for Obstetric Anesthesia and Perinatology. Manuscript in preparation
- 2017-2019 Yanmin Zhu, PhD/Postdoctoral Fellow at Brigham and Women's Hospital
- 2018- Daina Esposito, MPH/ Doctoral Student at Boston University School of Public Health
- 2018- Sara Seifert, MD/ Obstetric Anesthesia Fellow
- 2018-2020 Jenny Sun, MS/Doctoral Student at Harvard T.H. Chan School of Public Health
- 2018- David Combs, MD, PhD/Obstetric Anesthesia Fellow

**Local Invited Presentations:**

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

- 2008 "Postpartum Hemorrhage: Epidemiology and Approach to Treatment"/ Case Conference, Speaker  
Department of Anesthesia and Critical Care, MGH



- 2008 “POISE trial: Implications for Our Practice of Perioperative Beta-Blockade”/Department Conference, Speaker  
Department of Anesthesia and Critical Care, MGH
- 2011 “Antihypertensive Medications in Pregnancy” / Seminar  
Division of Pharmacoepidemiology and Pharmacoeconomics, BWH
- 2013 “The Epidemiology of Postpartum Hemorrhage” / Grand Rounds speaker  
Beth Israel Deaconess Medical Center, Boston, MA
- 2014 “Familial Aggregation of Postpartum Hemorrhage”/ MGH Center for Human Genetic Research seminar  
Massachusetts General Hospital, Boston, MA
- 2015 “The Epidemiology of Postpartum Hemorrhage” / Grand Rounds speaker  
South Shore Hospital, South Weymouth, MA
- 2016 “Epidemiology of Postpartum Hemorrhage”/Visiting Professor  
Department of Anesthesiology  
Brigham and Women’s Hospital  
Boston, MA
- 2018 “Opioid Use in Pregnancy and the Postpartum”/Visiting Professor  
Beth Israel Deaconess Medical Center  
Boston, MA
- 2018 “Opioid Use in Pregnancy and the Postpartum”/Visiting Professor  
Tufts School of Medicine  
Boston, MA
- 2019 “HELLP! How to Keep Moms with Preeclampsia Safe”/ Invited presentation  
Harvard Anesthesia Review Course, Boston, MA

**Report of Regional, National and International Invited Teaching and Presentations**

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

**Regional**

- 2012 “Maternal Hemorrhage”/Invited presentation  
Massachusetts Perinatal Quality Collaborative (March of Dimes)  
Boston, MA

- 2014 “Interpreting Comparative Effectiveness and Safety Studies Based on Healthcare Utilization Data” /Invited presentation  
Harvard Anesthesia Review Course  
Boston, MA
- 2015 “Epidemiology of Postpartum Hemorrhage” / Invited presentation  
Massachusetts Perinatal Quality Collaborative's Spring 2015 Summit, Waltham, MA

**National**

- 2008 "The Epidemiology of Postpartum Hemorrhage in a Nationwide Sample of Deliveries in the United States"/ Podium Presentation. Obstetrics Session  
American Society of Anesthesiologist Annual Meeting  
Orlando, FL
- 2009 "Temporal Trends in the Epidemiology of Severe Postoperative Sepsis Following Elective Surgery: A Large, Nationwide Sample " / Oral Presentation. Best Abstracts of the Meeting: Anesthesiology Editors' Picks Special Session  
American Society of Anesthesiologist Annual Meeting  
New Orleans, LA
- 2011 “Peripartum hysterectomy—Nationwide 14-year experience” / Oral Presentation. Best Abstracts of the Meeting  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
Las Vegas, NV
- 2012 “Recurrence of Postpartum Hemorrhage—the Swedish Medical Birth Register” / Oral Presentation. Best Abstracts of the Meeting  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
Monterey, CA
- 2012 “Coagulopathy: Nuts and Bolts to Cutting Edge” / Research Symposium  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
Monterey, CA
- 2012 “The Epidemiology of Postpartum Hemorrhage”/ Invited presentation  
Vanderbilt University  
Nashville, TN
- 2012 “Use of claims data in clinical research” /Invited Presentation  
Multicenter Perioperative Outcomes Group Consortium Meeting  
American Society of Anesthesiologist, Annual Meeting  
Washington, DC
- 2013 “The Epidemiology of Postpartum Hemorrhage” / Visiting Professor

University of Michigan, Department of Anesthesiology  
Ann Arbor, MI

- 2013 “Patterns of Antihypertensive Use in Pregnancy” / Invited Lecture  
Center for Disease Control and Prevention,  
Atlanta, GA, by Teleconference
  
- 2013 “Development and Validation of an Obstetric Comorbidity Index” / Consultative  
working group on obstetric morbidity in the United States  
Centers for Disease Control and Prevention  
Atlanta, GA
  
- 2013 “Role of hypertension genetic factors in susceptibility to preeclampsia” / Presentation.  
Best Abstracts of the Meeting  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
San Juan, PR
  
- 2013 “Familial clustering of postpartum hemorrhage in the Swedish population” / Oral  
Presentation  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
San Juan, PR
  
- 2013 “Methyergonovine maleate and the Risk of Myocardial Ischemia and Infraction”/ Oral  
Presentation  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
San Juan, PR
  
- 2013 “Interpreting Comparative Effectiveness Studies in Ambulatory Surgery” / Invited  
lecture  
American Society of Anesthesiology Annual Meeting  
San Francisco, CA
  
- 2014 “The Epidemiology of Postpartum Hemorrhage” / Invited lecture  
State Postpartum Hemorrhage Collaborative Meeting  
Newark, NJ
  
- 2014 “The Epidemiology of Postpartum Hemorrhage” / Invited lecture  
State Postpartum Hemorrhage Collaborative Meeting  
Atlanta, GA
  
- 2014 “Interesting Questions in Anesthesia and Approaches to Answer Them” / Invited  
lecture  
Investigators in Health Services Research in Anesthesiology, sponsored by ASA  
Health Policy Research and FAER  
American Society of Anesthesiology Annual Meeting  
New Orleans, LA
  
- 2014 “Comparative Safety of Anesthetic Technique for Hip Fracture Surgery in Adults” /  
Oral presentation

American Society of Anesthesiology Annual Meeting  
New Orleans, LA

- 2014 “Perioperative  $\beta$ -blocker Utilization in Patients Undergoing Intermediate to High Risk Non-Cardiac Surgery” / Oral presentation  
American Society of Anesthesiology Annual Meeting  
New Orleans, LA
- 2014 “Methylergonovine maleate and the Risk of MI” / Invited lecture  
Department of Anesthesiology, University of Chicago  
Chicago, IL
- 2014 “10 Things You Should Know About Preeclampsia to Care for Your Obstetric Patients” / Invited lecture University of Chicago, 28<sup>th</sup> Annual Conference, Challenges for Clinicians  
Chicago, IL
- 2014 “Postpartum Hemorrhage: Coming Soon to a Hospital Near You”/Invited lecture  
University of Chicago, 28<sup>th</sup> Annual Conference, Challenges for Clinicians  
Chicago, IL
- 2015 “Risk Assessment for Postpartum Hemorrhage” / Invited presentation  
New Jersey State Postpartum Hemorrhage Consortium by teleconference
- 2015 “Risk Assessment for Postpartum Hemorrhage” / Invited presentation  
Georgia State Postpartum Hemorrhage Consortium by teleconference
- 2015 “Obstetric Comorbidity Score” / Invited presentation  
CDC-American College of Obstetricians and Gynecologists, Maternal Mortality meeting,  
San Francisco, CA
- 2015 “Postpartum Hemorrhage” / Grand Rounds  
Englewood Hospital  
Englewood, NJ
- 2015 “Genetics of preeclampsia” / Invited presentation; Gertie Marx Grant Awardees Session  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
Colorado Springs, CO
- 2015 Labor Induction and Offspring Risk of Autism Spectrum Disorder / Presentation. (Best Abstracts of the Meeting)  
Society of Obstetric Anesthesiology and Perinatology Annual Meeting  
Colorado Springs, CO
- 2015 “Epidemiology of Postpartum Hemorrhage”/ Visiting Professor  
Department of Anesthesia, Stanford University  
Palo Alto, CA

- 2015 “Epidemiology of Postpartum Hemorrhage”/ Invited presentation  
California Perinatal Quality Care Collaborative  
Palo Alto, CA
- 2015 “Factor 7a in Postpartum Hemorrhage” / Invited presentation  
New Jersey State Postpartum Hemorrhage Consortium by teleconference
- 2015 “Factor 7a in Postpartum Hemorrhage” / Invited presentation  
Georgia State Postpartum Hemorrhage Consortium by teleconference
- 2016 “Epidemiology of Postpartum Hemorrhage”/ Visiting Professor  
Department of Anesthesia, Columbia University  
New York, NY
- 2016 “What’s New in Postpartum Hemorrhage Management?” / Invited presentation  
New Jersey State Postpartum Hemorrhage Consortium  
Newark NJ
- 2016 “What’s New in Postpartum Hemorrhage Management?” / Invited presentation  
Georgia State Postpartum Hemorrhage Consortium  
Atlanta, GA
- 2016 “Peripartum pain management—special considerations to ensure appropriate pain management, to prevent postpartum relapse and a risk of overdose”/Invited presentation  
Opioid Use in Pregnancy, Neonatal Abstinence Syndrome, and Childhood Outcomes Workshop, Co-sponsored by NICHD/ACOG/AAP/SMFM/CDC/MOD  
Rockville, MD
- 2016 “Using the Medicaid Analytic Extract for Pregnancy Research”/Invited Presentation  
Brown University Center for the Study of Children at Risk  
Providence, RI
- 2016 “Opioid Use Following Cesarean Delivery”/Invited lecturer  
National Meeting on Opioid Use, Abuse, and Overdose in Women  
Office of Women’s Health  
Department of Health and Human Services  
Washington, DC
- 2016 “Uterine Atony”/ Invited presentation  
American Society of Anesthesiology Annual Meeting  
Chicago, IL
- 2016 “The Epidemiology of Postpartum Hemorrhage”/ Visiting Professor  
Wayne State University/Detroit Medical Center  
Detroit, MI

- 2016 “Big Data for OB and OB Anesthesia Research”/Invited Speaker  
Society for Technology in Anesthesia  
San Diego, CA
- 2016 “The Epidemiology of Postpartum Hemorrhage”, “Big Data for OB and OB  
Anesthesia Research”/Visiting Professor  
University of Texas Southwestern  
Dallas, TX
- 2017 “The Epidemiology of Postpartum Hemorrhage”/Visiting Professor  
Washington University School of Medicine  
St. Louis, MI
- 2017 “What’s New in Obstetric Anesthesia”: Ostheimer Memorial Lecture  
Society for Obstetric Anesthesia and Perinatology Annual Meeting  
Seattle, WA
- 2017 “What’s New in Obstetric Anesthesia”/ Visiting Professor  
Weill Cornell Medical College  
New York, NY
- 2017 “Opioid Use in Pregnancy and the Postpartum”/Visiting Professor  
Wake Forest School of Medicine  
Winston Salem, NC
- 2017 “Opioid Use in Pregnancy and the Postpartum”/Invited speaker  
Program Project Grant Symposium, Pain Mechanism Laboratory  
Wake Forest School of Medicine  
Winston Salem, NC
- 2017 “What’s New in Obstetric Anesthesia”/ Visiting Professor  
University of Illinois Chicago School of Medicine  
Chicago, IL
- 2017 “Opioid Use in Pregnancy and the Postpartum”, “The Epidemiology of Postpartum  
Hemorrhage”/ Visiting Professor  
Department of Anesthesiology, Feinberg Northwestern School of Medicine  
Chicago, IL
- 2017 “Eating during labor”/ Invited presentation  
American Society of Anesthesiology Annual Meeting  
Boston, MA
- 2017 “Consequential Epidemiology: can population medicine improve maternal  
morbidity?”/Invited Presentation  
Foundation for Anesthesia Education and Research Panel, American Society of  
Anesthesiology Annual Meeting  
Boston, MA

- 2017 “Opioid Use in Pregnancy and the Postpartum”/Invited presentation  
Connecticut Hospital Association/ Connecticut Perinatal Quality Collaborative  
Conference  
Hartford, CT
- 2018 “Pain Management: antepartum, intrapartum, postpartum and beyond”/Invited  
Speaker Workshop on Substance Use Disorders in Pregnancy, Co-sponsored by the  
Society for Fetal and Maternal Medicine, the American College of Obstetrics and  
Gynecology, and the American Society of Addiction Medicine  
Dallas Texas
- 2018 “Opioid Use in Pregnancy and the Postpartum”/Visiting Professor  
Mayo School of Medicine  
Rochester, MI
- 2018 “Sam Hughes Memorial Lecture: What’s New In Obstetric Anesthesia”/Invited  
Lecture Sol Snider Meeting  
San Francisco, CA
- 2018 “Opioid Use in Pregnancy and the Postpartum”/Invited Lecture  
Sol Snider Meeting  
San Francisco, CA
- 2018 “Maternal Early Warning Criteria”/Invited Lecture  
Sol Snider Meeting  
San Francisco, CA
- 2018 “Opioids In Pregnancy and the Postpartum: Overview and Research Gaps”/ Invited  
workshop presentation  
Society for Obstetric Anesthesia and Perinaology Annual Meeting  
Miami, FL
- 2018 “Research symposium, Opioids in Pregnancy”/Invited Lecture  
Society for Obstetric Anesthesia and Perinaology Annual Meeting  
Miami, FL
- 2018 “Opioid Use In Pregnancy and the Postpartum”/Visiting Professor  
Department of Anesthesiology, University of Colorado Medical School  
Denver. CO
- 2018 “Big Data in OB and OB Anesthesia Research”/ Research Seminar  
Department of Anesthesiology, University of Colorado Medical School  
Denver. CO
- 2018 “The Correlation of Perioperative Anesthesia Approaches with  
Long-Term Post-Op Opioid Use”/Invited lecture  
International Society of Anesthetic Pharmacology Annual Meeting  
San Francisco, CA

- 2018 “Preeclampsia Refresher Course”/ Invited lecture  
American Society of Anesthesiology Annual Meeting  
San Francisco, CA
- 2018 “Neurological etiologies of postpartum headache”/ Invited lecture  
American Society of Anesthesiology Annual Meeting  
San Francisco, CA
- 2018 “Opioid Use In Pregnancy and the Postpartum”/Invited lecture  
Perinatal Quality Institute Webinar
- 2018 “Opioid Use In Pregnancy and the Postpartum”/Visiting Professor  
Westchester Medical Center/ New York Medical College  
Valhalla, NY
- 2019 “Big Data to Study Drug Safety in Pregnancy”/Invited presentation  
Columbia University Medical Center  
New York, NY
- 2019 “Why You Should Care About Maternal Levels of Care”/Panelist  
Society for Obstetric Anesthesia and Perinatology Annual Meeting  
Phoenix, AZ
- 2019 “Opioid Prescription Use After Vaginal Delivery and Subsequent Persistent Opioid  
Use and Misuse”/Invited presentation  
Best Papers Session, Society for Obstetric Anesthesia and Perinatology Annual  
Meeting, Phoenix, AZ
- 2019 “Pain in Pregnancy and the Postpartum”/Invited presentation  
14<sup>th</sup> annual NIH Pain Consortium Symposium, Advances in Pain Research, Pain  
Across the Lifespan  
Bethesda MD
- 2019 “Opioids after Vaginal and Cesarean Delivery”/Invited presentation  
Workshop on Identifying Research Gaps in Clinical Practice Guidelines for  
Prescribing Opioids for Acute Pain, National Academy of Medicine  
Washington, DC
- 2019 “HELLP! How to Keep Women with Preeclampsia Safe” Obstetrics Refresher Course/  
Invited lecture  
American Society of Anesthesiology Annual Meeting  
Orlando, FL
- 2019 “Evaluating the Safety of Medications in Pregnancy”, Invited lecture, Stanford  
University School of Medicine
- 2020 "What Do You Need to Know from SOAP Consensus Statements"/Invited lecture  
American Society of Anesthesiology Annual Meeting (Virtual)



- 2020 Society for Obstetric Anesthesia and Perinatology, Town Hall, “Epidurals and the Risk for Autism” (Virtual)
- 2021 (Scheduled) Visiting Professor, University of Arkansas School of Medicine
- 2021 “Preeclampsia and the Future Health of the Infant”/Invited lecture  
Society for Maternal Fetal Medicine/Preeclampsia Foundation, Workshop on Preeclampsia (virtual)

### **International**

- 2012 “Epidemiology of Postpartum Hemorrhage” by video conference / Invited lecture  
Awareness Rational Use of Blood Conference, Centro Médico Teknon  
Barcelona, Spain
- 2013 Methyergonovine maleate and the Risk of Myocardial Ischemia and Infraction / Oral  
presentation  
International Society of Pharmacoepidemiology Annual Meeting  
Montreal, CA
- 2013 Type of stress ulcer prophylaxis and the risk of nosocomial pneumonia in cardiac  
surgical patients: a cohort study / Oral presentation  
International Society of Pharmacoepidemiology Annual Meeting  
Montreal, CA
- 2014 “Risk Factors for Postpartum Hemorrhage” / Invited lecture  
19<sup>th</sup> Annual Internacional de Anestesia Obstetrica Conference  
Sao Paulo, Brazil
- 2014 “Update on Cardiac Arrest” / Invited lecture  
19<sup>th</sup> Annual Internacional de Anestesia Obstetrica Conference  
Sao Paulo, Brazil
- 2014 “Genetics of Preeclampsia” / Invited lecture  
19<sup>th</sup> Annual Internacional de Anestesia Obstetrica Conference  
Sao Paulo, Brazil
- 2014 “Introduction to Big Data for Use in OB Research Including Methodological  
Considerations”/Invited lecture  
Society for Obstetric Anesthesia and Perinatology Annual Meeting  
Toronto, Canada

- 2014 “Statins and the Risk of Congenital Malformations: A Cohort Study”/ Oral presentation International Society of Pharmacoepidemiology, Annual Meeting Taipei, Taiwan
- 2014 “Opioid Use Following Cesarean Delivery” / Oral presentation International Society of Pharmacoepidemiology, Annual Meeting Taipei, Taiwan
- 2015 “Postpartum Hemorrhage: Morbidity and How to Prevent It”/Seminar Department of Anesthesia, Karolinska Institutet Stockholm, Sweden
- 2015 “Methodological Considerations in Studying Drug Safety in Pregnancy”/Course instructor International Society of Pharmacoepidemiology, Annual Meeting Boston, MA
- 2015 “Inductions and the Risk of Autism Spectrum Disorder”/ Oral presentation International Society of Pharmacoepidemiology, Annual Meeting Boston, MA
- 2015 “ACE Inhibitor Exposure and the Risk of Congenital Malformations”/ Oral presentation International Society of Pharmacoepidemiology, Annual Meeting Boston, MA
- 2015 “The Safety of First Trimester Exposure to ADHD Medications”/ Oral presentation International Society of Pharmacoepidemiology, Annual Meeting Boston, MA
- 2015 “Late Pregnancy Exposure to Beta Blockers and the Risks of Neonatal Bradycardia and Hypoglycemia”/ Oral presentation International Society of Pharmacoepidemiology, Annual Meeting Boston, MA
- 2016 “Methodological Considerations in Studying Drug Safety in Pregnancy”/Course instructor International Society of Pharmacoepidemiology, Annual Meeting Dublin, Ireland
- 2016 “Pregnancy outcomes in women with chronic hypertension initiated on labetalol versus methyldopa” International Society of Pharmacoepidemiology, Annual Meeting Dublin, Ireland

- 2017 “What’s New in Obstetric Anesthesia 2016”/Invited lecture  
Obstetric Anaesthetists' Association Meeting  
London, UK
- 2017 “Big data for obstetric and obstetric anesthesia research”/Invited lecture  
Obstetric Anaesthetists' Association Meeting  
London, UK
- 2017 “What’s New in Obstetric Anesthesia 2016”/ Invited lecture  
24th International Conference of the Israeli Society of Anesthesiologists  
Tel Aviv, Israel
- 2017 “Big data for obstetric and obstetric anesthesia research”/Invited lecture  
24th International Conference of the Israeli Society of Anesthesiologists  
Tel Aviv, Israel
- 2017 “Methodological Considerations in Studying Drug Safety in Pregnancy”/Invited  
presentation  
International Society of Pharmacoepidemiology, Annual Meeting  
Montreal, Canada
- 2017 “Beta Blockers and the Risk for Congenital Malformations”/Invited presentation  
International Society of Pharmacoepidemiology, Annual Meeting  
Montreal, Canada
- 2018 “Opioid Use in Pregnancy and the Postpartum Period”/ Visiting Professor  
British Columbia Women’s Hospital  
University of British Columbia  
Vancouver, Canada
- 2018 “What’s New In Obstetric Anesthesia”/ Visiting Professor  
Vancouver General Hospital, University of British Columbia  
Vancouver, Canada
- 2018 “What’s New In Obstetric Anesthesia”/ Visiting Professor  
Royal Columbian Hospital, University of British Columbia  
Vancouver, Canada
- 2018 “What’s New In Obstetric Anesthesia”/Invited presentation  
Annual Internacional de Anestesia Obstetrica Conference  
Sao Paulo, Brazil
- 2018 “Applying Early Warning Criteria in Obstetrics”/ Invited presentation  
Beijing 2018 National High Risk Obstetric Analgesia and Anesthesia Symposium

Beijing, China

- 2018 “Methodological Considerations in Studying Drug Safety in Pregnancy”/Course instructor  
International Society of Pharmacoepidemiology, Annual Meeting  
Prague, Czech Republic
- 2018 “Update on Preeclampsia”/Invited presentation  
11th Annual Conference of Association of Obstetric Anesthesiologists  
Jodhpur India
- 2019 “Update on Preeclampsia”/Invited presentation  
Hanoi Hospital for Obstetrics and Gynecology  
Hanoi, Vietnam
- 2019 “Risk Stratification in Obstetrics”/Invited presentation  
International Conference on Anesthesia for Obstetrics and Gynecology  
Hanoi, Vietnam
- 2019 “Update on Preeclampsia”/Invited presentation  
Congresso Paulista De Anestesiologia,  
São Paulo, Brazil
- 2019 “Early Warning Systems and Risk Stratification”/Invited presentation  
Congresso Paulista De Anestesiologia  
São Paulo, Brazil
- 2019 “Opioids After Cesarean Delivery and the Opioid Epidemic”/Invited presentation  
International Anesthesia Research Society  
Montreal, Canada
- 2019 “Update on Preeclampsia”/Invited presentation  
14<sup>th</sup> National Congress on Obstetric Anesthesia  
Baotau, China
- 2019 “Threats to the Validity of Studies of Drug Safety in Pregnancy”/Invited presentation.  
International Society of Pharmacoepidemiology, Annual Meeting  
Philadelphia, PA
- 2019 “Big Data in Obstetric Anesthesia-what have we learned?”/Invited presentation.  
International Congress of Obstetric Anaesthesia, Cape Town, South Africa
- 2019 “Pain During Cesarean Delivery”/Invited presentation.  
International Congress of Obstetric Anaesthesia, Cape Town, South Africa

- 2020 Invited speaker, Annual Scientific Meeting in Anaesthesiology, Hong Kong College of Anesthesia, Hong Kong (cancelled due to civil unrest)
  
- 2020 “Risk Stratification in Obstetrics”/Invited presentation. Euroanesthesia, European Society of Anesthesiology, Barcelona, Spain (converted to virtual meeting due to COVID)
  
- 2020 “Medication Safety in Pregnancy”/Invited presentation. Euroanesthesia, European Society of Anesthesiology, Barcelona, Spain (converted to virtual meeting due to COVID)
  
- 2020 Invited speaker 25th International Conference of the Israeli Society of Anesthesiologists, Tel Aviv, Israel (Cancelled due to COVID)
  
- 2021 “Risk Stratification in Obstetrics”/Invited presentation. Association of Obstetric Anaesthesiologists, India 13th National Conference (virtual meeting due to COVID)
  
- 2021 “Using Big Data to Study the Safety of Medications in Pregnancy”/Invited presentation (scheduled) Obstetric Anaesthetists' Association Annual Meeting (virtual meeting due to COVID)

**Report of Clinical Activities and Innovations**

**Current Licensure and Certification:**

- 2006-2010 Restricted License, Massachusetts
  
- 2006- ACLS Certification
  
- 2010- Full License, Massachusetts
  
- 2011- Primary certification, American Board of Anesthesiology  
Participating in Maintenance of Certification

**Practice Activities:**

- |           |                            |  |  |
|-----------|----------------------------|--|--|
| 2011-2017 | Attending anesthesiologist | Main operating theatre, Labor and delivery | 1 day per week + call (70 to 80 patient contact hours per month) |
|-----------|----------------------------|--|--|

(Massachusetts  
General Hospital)

2017-	Attending anesthesiologist (Brigham and Women's Hospital)	Labor and delivery, Main operating theatre	1 day per week + call
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### Report of Scholarship

#### Peer-Reviewed Scholarship in print or other media:

#### Research Investigations

1. **Bateman BT**, Donegan NP, Jarry TM, Palma M, Cheung AL. Evaluation of a tetracycline-inducible promoter in *Staphylococcus aureus* in vitro and in vivo and its application in demonstrating the role of sigB in microcolony formation. *Infection and immunity* 2001;69:7851-7.
2. Cheung AL, Schmidt K, **Bateman B**, Manna AC. SarS, a SarA homolog repressible by agr, is an activator of protein A synthesis in *Staphylococcus aureus*. *Infection and immunity* 2001;69:2448-55.
3. **Bateman BT**, Pile-Spellman J, Gutin PH, Berman MF. Meningioma resection in the elderly: nationwide inpatient sample, 1998-2002. *Neurosurgery* 2005;57:866-72; discussion -72.
4. **Bateman BT**, Schumacher HC, Boden-Albala B, Berman MF, Mohr JP, Sacco RL, Pile-Spellman J. Factors associated with in-hospital mortality after administration of thrombolysis in acute ischemic stroke patients: an analysis of the nationwide inpatient sample 1999 to 2002. *Stroke* 2006;37:440-6. (*published with editorial*)
5. **Bateman BT**, Schumacher HC, Bushnell CD, Pile-Spellman J, Simpson LL, Sacco RL, Berman MF. Intracerebral hemorrhage in pregnancy: frequency, risk factors, and outcome. *Neurology* 2006;67:424-9.
6. **Bateman BT**, Simpson LL. Higher rate of stillbirth at the extremes of reproductive age: a large nationwide sample of deliveries in the United States. *American journal of obstetrics and gynecology* 2006;194:840-5.
7. Choi JH, **Bateman BT**, Mangla S, Marshall RS, Prabhakaran S, Chong J, Mohr JP, Mast H, Pile-Spellman J. Endovascular recanalization therapy in acute ischemic stroke. *Stroke* 2006;37:419-24.

8. Ford AA, **Bateman BT**, Simpson LL. Vaginal birth after cesarean delivery in twin gestations: a large, nationwide sample of deliveries. *American journal of obstetrics and gynecology* 2006;195:1138-42.
9. **Bateman BT**, Claassen J, Willey JZ, Hirsch LJ, Mayer SA, Sacco RL, Schumacher HC. Convulsive status epilepticus after ischemic stroke and intracerebral hemorrhage: frequency, predictors, and impact on outcome in a large administrative dataset. *Neurocritical care* 2007;7:187-93.
10. Claassen J, **Bateman BT**, Willey JZ, Inati S, Hirsch LJ, Mayer SA, Sacco RL, Schumacher HC. Generalized convulsive status epilepticus after nontraumatic subarachnoid hemorrhage: the nationwide inpatient sample. *Neurosurgery* 2007;61:60-4; discussion 4-5.
11. Ford AA, **Bateman BT**, Simpson LL, Ratan RB. Nationwide data confirms absence of 'July phenomenon' in obstetrics: it's safe to deliver in July. *Journal of perinatology* 2007;27:73-6. (published with editorial)
12. Louis ED, Henchcliffe C, **Bateman BT**, Schumacher C. Young-onset Parkinson's disease: hospital utilization and medical comorbidity in a nationwide survey. *Neuroepidemiology* 2007;29:39-43.
13. Schumacher HC, **Bateman BT**, Boden-Albala B, Berman MF, Mohr JP, Sacco RL, Pile-Spellman J. Use of thrombolysis in acute ischemic stroke: analysis of the Nationwide Inpatient Sample 1999 to 2004. *Annals of emergency medicine* 2007;50:99-107.
14. **Bateman BT**, Schumacher HC, Wang S, Shaefi S, Berman MF. Perioperative acute ischemic stroke in noncardiac and nonvascular surgery: incidence, risk factors, and outcomes. *Anesthesiology* 2009;110:231-8. (published with editorial)
15. **Bateman BT**, Berman MF, Riley LE, Leffert LR. The epidemiology of postpartum hemorrhage in a large, nationwide sample of deliveries. *Anesthesia and analgesia* 2010;110:1368-73.
16. **Bateman BT**, Schmidt U, Berman MF, Bittner EA. Temporal trends in the epidemiology of severe postoperative sepsis after elective surgery: a large, nationwide sample. *Anesthesiology* 2010;112:917-25.
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