

Curriculum Vitae

Date Prepared: 10/16/2021

Name: Brian Thomas Bateman, M.D., M.Sc.

Education:

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| 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 |
| 2022 (expected) | Masters in Business Administration | Global MBA Program | Imperial College London, School of Business |

Postdoctoral Training:

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| 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:

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| 1/11-11/15 | Assistant Professor | Department of Anesthesia, Critical Care, and Pain Medicine (DACCPM) | Harvard Medical School, Boston, MA |
| 11/15- 10/21 | 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 |
| 10/21- | Professor (tenured) and Chair | Department of Anesthesiology, Perioperative, and Pain Medicine | Stanford University School of Medicine |

Appointments at Hospitals/Affiliated Institutions:

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| 7/11- 3/17 | Anesthesiologist | Department of Anesthesia, Critical Care, and Pain Medicine | Massachusetts General Hospital |
| 2/12-10/21 | Researcher | Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine | Brigham and Women's Hospital |
| 3/17-10/21 | Anesthesiologist | Department of Anesthesiology, Perioperative and Pain Medicine | Brigham and Women's Hospital |
| 10/21- | Anesthesiologist | Department of Anesthesiology, Perioperative and Pain Medicine | Stanford Hospital |

Other Professional Positions:

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| 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 |
| 2015-2021 | Consultant | ALOSA Foundation |

Major Administrative Leadership Positions:

Local

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| 2012-2016 | Fellowship Co-Director, Perioperative Health Services Research Fellowship | Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital |
| 2017-2021 | Chief, Division of Obstetric Anesthesia | Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital |
| 2017-2021 | Co-Director, Harvard Program on Perinatal and Pediatric Pharmacoeconomics (H4P) | Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital |
| 2019-2021 | Vice Chair for Faculty Development; member of Department Executive Committee | Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital |
| 2021- | Chair | Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine |

International

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

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| 2010 | Internal Review Committee | Geriatric Medicine Fellowship, 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 |
| 2018-2021 | Research Advisory Committee | Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital |

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| 2020-2021 | Faculty Develop and Junior Promotions Committee | Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital |
| 2020-2021 | Neuroanesthesia Division Chief Search Committee | Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital |
| 2020-2021 | Diversity, Equity, and Inclusion Committee | Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital |
| Regional | | |
| 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 |
| National | | |
| 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 |

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| 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) |
| 2021 | Panelist, Exploring Options for Safe and Effective In-Home Opioid Disposal | Food and Drug Administration/Duke-Margolis |
| 2021-2025 | Chairperson, Anesthetic and Analgesic Drug Products Advisory Committee | Food and Drug Administration |

International

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| 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:

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|--------------|---|--|
| 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 |

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| | | 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:

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| 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 |

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| 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 |
| 2021 | Grant Reviewer | National Medical Research Council, Singapore |
| 2021 | Grant Reviewer | NIH, Special Emphasis Panel, Population Sciences and Epidemiology. April 6, 2021 |

United States Food and Drug Administration Advisory Committee Meetings

| Date | Committee | Role |
|-----------------------|---|--------------------|
| 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 |

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| 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 Anesthetic and Analgesic Drug Products Advisory Committee | Acting Chairperson |
| 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**

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|--------------|------------------|--|
| 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 th edition |

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| 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:

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| 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 |

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| 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: Incidence, Risk factors and Outcomes”, was one of 12 articles in the <i>Anesthesiology</i> 2009 Year in Review. | Journal <i>Anesthesiology</i> | The review highlighted “articles that the Editorial Board believed exemplified the mission of Anesthesiology, to advance 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 nd | MGH Clinical Research Day | |

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| | prize, departmental award (first author) | |
| 2012 | Research abstract “Hypertension risk variants and risk of preeclampsia” 2 nd prize, departmental award (second author) | MGH Clinical Research Day |
| 2012, 2013 | Top 10% of Reviewers | Journal <i>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 | Society of Obstetric Anesthesiology and Perinatology Annual Meeting |

Patient Safety Paper
(first author)

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| 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 Presented by a Resident/Fellow (Senior author) | Society of Obstetric Anesthesiology and Perinatology Annual Meeting | |
| 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 Osheimer 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. |

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| 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 | |
| 2021 | Ronald D. Mann Best Paper Award | <i>Pharmacoepidemiology and Drug Safety</i> | |

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.
- 2019-2021 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.
- 9/15/2017-7/31/2021 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.

- 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.
- 2019-2021 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.
- 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

Current

- 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.
- 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.

- 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.
- 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.
- 4/2021-3/2025 Active Surveillance of the Safety of Antipsychotic Medications in Pregnancy
 National Institutes of Health/ 1R01HD104646-01 (PI: Huybrechts)
 Co-Investigator
 To develop and employ active surveillance methods (e.g., TreeScan) to study the safety of antipsychotic use in pregnancy.

Report of Local Teaching and Training

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

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| 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 |

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| 2017- | Lectures in obstetric anesthesia | Brigham and Women's Hospital 2-3 hours/month |
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Clinical Supervisory and Training Responsibilities:

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

Local Invited Presentations:

No presentations below were sponsored by 3rd parties/outside entities

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| 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 3rd 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 β -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, 28th Annual Conference, Challenges
for Clinicians
Chicago, IL
- 2014 “Postpartum Hemorrhage: Coming Soon to a Hospital Near You”/Invited lecture
University of Chicago, 28th 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
14th 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)
- 2020 Visiting Professor, New York University School of Medicine—Cancelled due to COVID 19
- 2021 Visiting Professor, University of Arkansas School of Medicine (virtual)
- 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
19th Annual Internacional de Anestesia Obstetrica Conference
Sao Paulo, Brazil
- 2014 “Update on Cardiac Arrest” / Invited lecture
19th Annual Internacional de Anestesia Obstetrica Conference
Sao Paulo, Brazil
- 2014 “Genetics of Preeclampsia” / Invited lecture
19th 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 Institut
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
14th 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, United Kingdom (virtual meeting due to COVID)
- 2021 “Methodological Considerations in Studying Drug Safety in Pregnancy”/Course instructor
International Society of Pharmacoepidemiology, 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 (Massachusetts General Hospital) | Main operating theatre, Labor and delivery | 1 day per week + call (70 to 80 patient contact hours per month) |
| 2017-2021 | Attending anesthesiologist (Brigham and Women’s Hospital) | Labor and delivery, Main operating theatre | 1 day per week + call |

Report of Scholarship

Peer-Reviewed Scholarship in print or other media (h-index 63)

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.
17. Mhyre JM, **Bateman BT**, Leffert LR. Influence of patient comorbidities on the risk of near-miss maternal morbidity or mortality. *Anesthesiology* 2011;115:963-72.
18. **Bateman BT**, Bansil P, Hernandez-Diaz S, Mhyre JM, Callaghan WM, Kuklina EV. Prevalence, trends, and outcomes of chronic hypertension: a nationwide sample of delivery admissions. *American journal of obstetrics and gynecology* 2012;206:134 e1-8.
19. **Bateman BT**, Hernandez-Diaz S, Huybrechts KF, Palmsten K, Mogun H, Ecker JL, Fischer MA. Patterns of outpatient antihypertensive medication use during pregnancy in a Medicaid population. *Hypertension* 2012;60:913-20.
20. **Bateman BT**, Mhyre JM, Callaghan WM, Kuklina EV. Peripartum hysterectomy in the United States: nationwide 14 year experience. *American journal of obstetrics and gynecology* 2012;206:63 e1-8.
21. **Bateman BT**, Olbrecht VA, Berman MF, Minehart RD, Schwamm LH, Leffert LR. Peripartum subarachnoid hemorrhage: nationwide data and institutional experience. *Anesthesiology* 2012;116:324-33. (published with editorial)
22. **Bateman BT**, Shaw KM, Kuklina EV, Callaghan WM, Seely EW, Hernandez-Diaz S. Hypertension in women of reproductive age in the United States: NHANES 1999-2008. *PloS one* 2012;7:e36171.

23. Brunelli SM, Waikar SS, **Bateman BT**, Chang TI, Lii J, Garg AX, Winkelmayr WC, Choudhry NK. Preoperative statin use and postoperative acute kidney injury. *The American journal of medicine* 2012;125:1195-204 e3. (published with editorial)
24. Bryant A, Mhyre JM, Leffert LR, Hoban RA, Yakoob MY, **Bateman BT**. The association of maternal race and ethnicity and the risk of postpartum hemorrhage. *Anesthesia and analgesia* 2012;115:1127-36.
25. Grosse-Sundrup M, Henneman JP, Sandberg WS, **Bateman BT**, Uribe JV, Nguyen NT, Ehrenfeld JM, Martinez EA, Kurth T, Eikermann M. Intermediate acting non-depolarizing neuromuscular blocking agents and risk of postoperative respiratory complications: prospective propensity score matched cohort study. *BMJ* 2012;345:e6329. (published with editorial)
26. Lee LK, **Bateman BT**, Wang S, Schumacher HC, Pile-Spellman J, Saposnik G. Trends in the hospitalization of ischemic stroke in the United States, 1998-2007. *International journal of stroke : official journal of the International Stroke Society* 2012;7:195-201.
27. Terry AR, Barker FG, 2nd, Leffert L, **Bateman BT**, Souter I, Plotkin SR. Outcomes of hospitalization in pregnant women with CNS neoplasms: a population-based study. *Neuro-oncology* 2012;14:768-76.
28. **Bateman BT**, Bykov K, Choudhry NK, Schneeweiss S, Gagne JJ, Polinski JM, Franklin JM, Doherty M, Fischer MA, Rassen JA. Type of stress ulcer prophylaxis and risk of nosocomial pneumonia in cardiac surgical patients: cohort study. *BMJ* 2013;347:f5416.
29. **Bateman BT**, Hernandez-Diaz S, Huybrechts KF, Palmsten K, Mogun H, Ecker JL, Seely EW, Fischer MA. Outpatient calcium-channel blockers and the risk of postpartum haemorrhage: a cohort study. *BJOG : an international journal of obstetrics and gynaecology* 2013;120:1668-76. (published with editorial)
30. **Bateman BT**, Huybrechts KF, Hernandez-Diaz S, Liu J, Ecker JL, Avorn J. Methylergonovine maleate and the risk of myocardial ischemia and infarction. *American journal of obstetrics and gynecology* 2013;209:459 e1- e13.
31. **Bateman BT**, Mhyre JM, Ehrenfeld J, Kheterpal S, Abbey KR, Argalious M, Berman MF, Jacques PS, Levy W, Loeb RG, Paganelli W, Smith KW, Wethington KL, Wax D, Pace NL, Tremper K, Sandberg WS. The risk and outcomes of epidural hematomas after perioperative and obstetric epidural catheterization: a report from the Multicenter Perioperative Outcomes Group Research Consortium. *Anesthesia and analgesia* 2013;116:1380-5. (published with editorial)
32. **Bateman BT**, Mhyre JM, Hernandez-Diaz S, Huybrechts KF, Fischer MA, Creanga AA, Callaghan WM, Gagne JJ. Development of a comorbidity index for use in obstetric patients. *Obstetrics and gynecology* 2013;122:957-65. (published with editorial)
33. **Bateman BT**, Rassen JA, Schneeweiss S, Bykov K, Franklin JM, Gagne JJ, Polinski JM, Liu J, Kulik A, Fischer MA, Choudhry NK. Adjuvant vancomycin for antibiotic prophylaxis and

- risk of *Clostridium difficile* infection after coronary artery bypass graft surgery. *The Journal of thoracic and cardiovascular surgery* 2013;146:472-8.
34. Bauer ME, **Bateman BT**, Bauer ST, Shanks AM, Mhyre JM. Maternal sepsis mortality and morbidity during hospitalization for delivery: temporal trends and independent associations for severe sepsis. *Anesthesia and analgesia* 2013;117:944-50.
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Professional educational materials or reports, in print or other media:

1. Continuing medical education modules used in the academic detailing programs described below.

- a. **Bateman B**, Kim D, Avorn J, Choudhry NK, Fischer M, Hurley E, and Dancel E. *Managing Pain in the elderly*. Alosa Foundation: Boston, MA. Nov 2014
- b. **Bateman B**, Choudhry NK, Fischer M, Avorn J, Kim D, Luo J and Dancel E. *Managing chronic pain in the elderly*. Alosa Health: Boston, MA. January 2018.
- c. **Bateman B**, Avorn J, Fischer M, Choudhry NK, Kim D, Luo J and Dancel E. *Managing acute pain in the elderly*. Alosa Health: Boston, MA. April 2018.
- d. Barenie R, **Bateman B**, Avorn J, Fischer M, Luo J, and Dancel E. *Helping patients manage opioid use disorder*. Alosa Health: Boston MA. September 2019.
- e. Lauffenburger J, **Bateman B**, Avorn J, Fischer M, Luo J, and Dancel E. *Treating acute pain without overusing opioids: Evidence-based management approaches*. Alosa Health: Boston, MA. August 2019.
- f. **Bateman B**, Bykov K, Avorn J, Fischer M, Luo J, and Dancel E. *Managing chronic non-cancer pain: The most recent evidence on effective, safe strategies*. Alosa Health: Boston, MA. August 2019.

These materials were used for the following academic detailing program focused on the treatment of pain without overusing opioids. I also participated in training seminars for the academic detailers involved in these projects.

Massachusetts: The Bureau of Substance Addiction Services provided emergency funding to launch an educational outreach program to primary care providers in Massachusetts in response to the opioid epidemic. This program ran from February to June 2015 and reached over 200 prescribers in the Commonwealth of Massachusetts. Four clinical educators visited prescribers in communities most significantly impacted with opioid overdose deaths to

provide education about improving the safety of opioid use, tapering opioid doses, and prescribing or recommending naloxone to reduce overdose risk.

Pharmaceutical Contract for the Elderly (PACE) through the Pennsylvania Department of Aging:

Alosa Health's long-standing partnership with the PACE program reaches over 900 prescribers in the state annually on a variety of topics impacting primary care in older adults. The first module launched in 2014 focused on reducing the risks of opioid prescribing for patients with chronic pain and was delivered in Philadelphia, Pittsburgh, Harrisburg, and Wilkes-Barre areas of the Commonwealth. In early 2018, a launch of updated materials focused primary care provider education on non-opioid pain management options, specifically more robust evaluation of the data for non-pharmacologic option for managing pain, emphasis on tapering, prescribing naloxone, and identification of patients with possible opioid use disorder. Coverage expanded to include the Erie area as well. Funding for the PACE program and the subsequent Alosa work is provided via the state lottery system.

PACE/Department of Aging and Department of Health: In September 2019, a joint program through PACE/Dept of Aging and the PA Department of Health will reach providers in Pennsylvania who write opioid prescriptions, without the restriction of providing care to PACE card holders. It is anticipated that this program will expand coverage in the state to include counties in Central PA that are not already engaged through the PACE program as well as providing additional detailing support in areas such as Pittsburgh. Funding for this work was provided to Pennsylvania from the Centers for Disease Control and Prevention.

Aetna: Beginning in December 2018, Alosa launched a clinical education outreach initiative around acute pain, chronic non-cancer pain, and opioid use disorder in Illinois, Maine, Ohio, Pennsylvania, and West Virginia. This initiative was made possible by an unrestricted educational grant from Aetna.

Maine Independent Clinical Information Service: The 2014 managing pain in the elderly module was but also launched in Maine. This long-standing program through the Maine Medical Society canvases the state using two academic detailers to do one-on-one and small group interactions utilizing materials created by Alosa Health.

2. Co-author of Interim Considerations for Obstetric Anesthesia Care related to COVID19 from the Society for Obstetric Anesthesia and Perinatology.