

**CURRICULUM VITAE**  
The Johns Hopkins University School of Medicine

(Signature) Jamie D. Murphy                      April 1, 2019  
Jamie D. Murphy, MD                                      Date

**DEMOGRAPHIC AND PERSONAL INFORMATION**

**Current Appointments**

2019–present      Associate Professor, Department of Anesthesiology and Critical Care Medicine  
2019–present      Associate Professor (Joint), Department of Obstetrics and Gynecology  
  
2013–present      Division Chief, Division of Obstetric, Gynecologic and Fetal Anesthesiology for Johns Hopkins  
Hospitals, Johns Hopkins University

**Past Appointments**

2008–2019      Assistant Professor, Department of Anesthesiology and Critical Care Medicine  
2011–2019      Assistant Professor (Joint), Department of Obstetrics and Gynecology

**Personal Data**

Jamie D. Murphy, MD  
Johns Hopkins University Hospital  
Department of Anesthesiology/Critical Care Medicine  
1800 Orleans Street  
Sheikh Zayed Tower 8120  
Baltimore, MD 21287  
Phone 410-955-5608/410-614-3154  
Pager: 410-283-5872  
Email: jdietz8@jhmi.edu

**Education and Training**

*Undergraduate*

9/93–5/97      Magna Cum Laude, B.S. Kinesiology Sciences, Health and Human Performance, University of  
Maryland, College Park, College Park, MD

*Doctoral/graduate*

8/99–5/03      Doctorate of Medicine, Drexel University College of Medicine, Philadelphia, PA

*Postdoctoral*

6/03–6/04      Intern, Internal Medicine, Abington Memorial Hospital, Abington, PA  
7/04–8/07      Resident, Anesthesiology, Johns Hopkins University, Baltimore, MD  
9/07–7/08      Fellowship, Obstetric Anesthesia, Johns Hopkins University, Baltimore, MD

**Professional Experience**

2007–2008      Instructor, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University  
2008–present      Assistant Professor, Department of Anesthesiology and Critical Care Medicine

2008–2013 Director of Obstetric Anesthesia for Johns Hopkins Hospitals, Johns Hopkins University  
2010–2013 Fellowship Director, Obstetric Anesthesiology, Johns Hopkins University School of Medicine  
2011–present Assistant Professor, Department of Obstetrics and Gynecology

## PUBLICATIONS

### Original Research [OR]

1. Richman JM, Carter HB, Hanna MN, **Murphy JD**, Rowlingson AJ, Andrews RA, Wu CL. Efficacy of periprostatic local anesthetic for prostate biopsy: A meta-analysis. *Urology* 2006; 67:1224-8.
2. Cootauco AC, **Murphy JD**, Maleski J, Blakemore KJ, Slodzinski MK. Atrial natriuretic peptide production and natriuretic peptide receptors in the human uterus and their effect on myometrial relaxation. *Am J Obstet Gynecol* 2008; 199:e1-6.
3. Sumida S, Lesley MR, Hanna MN, **Murphy JD**, Kumar K, Wu CL. Meta-analysis of the effect of extended-release epidural morphine versus intravenous patient-controlled analgesia on respiratory depression. *J Opioid Manag* 2009; 5:301-5.
4. George JA, Lin EE, Hanna MN, **Murphy JD**, Kumar K, Ko PS, Wu CL. The effect of intravenous opioid patient-controlled analgesia with and without background infusion on respiratory depression: A meta-analysis. *J Opioid Manag* 2010; 6:47-54.
5. **Murphy JD**, Yan D, Hanna MN, Bravos ED, Isaac GR, Eng CA, Wu CL. Comparison of the postoperative analgesic efficacy of intravenous patient-controlled analgesia with tramadol to intravenous patient-controlled analgesia with opioids. *J Opioid Manag* 2010; 6:141-7.
6. Liu SS, Togioka BM, Hurley RW, Vu CM, Hanna MN, **Murphy JD**, Wu CL. Methodological quality of randomized controlled trials of postoperative epidural analgesia: Validation of the epidural analgesia trial checklist as a specific instrument to evaluate methodology. *Reg Anesth Pain Med* 2010; 35:549-55.
7. Gelfand HJ, Ouanes JP, Lesley MR, Ko PS, **Murphy JD**, Sumida SM, Isaac GR, Kumar K, Wu CL. Analgesic efficacy of ultrasound-guided regional anesthesia: A meta-analysis. *J Clin Anesth* 2011; 23:90-6.
8. **Murphy JD**, Gelfand HJ, Bicket MC, Ouanes JP, Kumar KK, Isaac GR, Wu CL. Analgesic efficacy of intravenous naloxone for the treatment of postoperative pruritus: A meta-analysis. *J Opioid Manag* 2011; 7:321-7.
9. Hanna MN, Jeffries MA, Kapoor SG, **Murphy JD**, Stevens RD, Bilbow A, Mathur V, Wu CL. Analysis of the methodologic quality of reporting of meta-analyses in anesthesiology and pain medicine. *J Anesth Clin Res* 2011; S1: 003.
10. **Murphy JD**, Ouanes JP, Togioka BM, Sumida SM, Isaac GR, Gelfand HJ, Hanna MN. Comparison of air and liquid for use in loss-of-resistance technique during labor epidurals: A meta-analysis. *J Anesth Clin Res* 2011; 2:175.
11. **Murphy, JD**, Togioka BM. Aspiration in early pregnancy: risk factors revisited. *J Clin Anesth* 2011; 23(6):435-6. PMID: 21831623
12. Togioka B, Galvagno S, Sumida S, **Murphy J**, Ouanes JP, Wu C. The role of perioperative high inspired oxygen therapy in reducing surgical site infection: A meta-analysis. *Anesth Analg* 2012; 114:334-42.
13. **Murphy JD**, Paskaradevan J, Eisler LL, Ouanes JP, Tomas VG, Freck EA, Wu CL. Analgesic efficacy of continuous intravenous magnesium infusion as an adjuvant to morphine for postoperative analgesia: A systematic review and meta-analysis. *Middle East J Anesthesiol* 2013; 22:11-20.
14. Ouanes JP, Bicket MC, Togioka B, Tomas VG, Wu CL, **Murphy JD**. The role of perioperative chewing gum on gastric fluid volume and gastric pH: A meta-analysis. *J Clin Anesth* 2015;27(2):146-52. PMID: 25442242
15. Owens S, Erturk A, Ouanes JP, **Murphy JD**, Bottomly P, Wu CL. Evaluation of epidural and peripheral nerve catheter heating during magnetic resonance imaging. *Reg Anesth Pain Med* 2014;39(6):534-9. PMID: 25275576; PMCID: PMC4208947.

16. Zeng A, Nami N, Wu CL, **Murphy JD**. The analgesic efficacy of nonsteroidal anti-inflammatory agents (NSAIDs) in patients undergoing Cesarean deliveries: A meta-analysis. *Reg Anesth Pain Med* 2016; 41(6): 763-772. PMID: 2775548
17. Pauls LA, Johnson-Paben R, McGready J, **Murphy JD**, Pronovost PJ, Wu CL. The weekend effect in hospitalized patients: A meta-analysis. *J Hosp Med* 2017; 12(9): 760-6. PMID: 28914284
18. Adams MCB, Bicket MC, **Murphy JD**, Wu CL, Hurley RW. Opportunities and challenges for junior investigators conducting pain clinical trials in academia. *Pain Rep* March 8 2018,; doi: 10.1097/PR9.0000000000000639
19. **Murphy JD**, Nguyen TA, Koch CG, Blume E, Sheffield J, Williams K. The Center for Peripartum Optimization: an innovative approach to care coordination. *Anesth Med Pract J* 2018, doi: 10.29011/AMPJ-125. 100025
20. Vaught AJ, Kovell LC, Szymanski LM, Mayer SA, Seifert SM, Vaidya D, **Murphy JD**, Argani C, O'Kelly A, York S, Ouyang P, Mukherjee M, Zakaria S. Acute cardiac effects of severe pre-eclampsia. *J Am Coll Cardiol* 2018;72(1): 1–11. PMID: 29957219
21. Baschat AA, Ahn ES, **Murphy JD**, Miller JL. Fetal blood-gas values during fetoscopic myelomeningocele repair performed under carbon dioxide insufflation. *Ultrasound Obstet Gynecol* 2018; PMID: 29750436
22. Chang HY, Gavin N, Nguyen TA, Sheffield JS, Szymanski L, **Murphy JD**. A multidisciplinary approach to peripartum triaging of patients to the operating room. *J Clin Anesth Manag* 2018;3(1): DOI: <http://dx.doi.org/10.16966/2470-9956.137>
23. **Murphy JD**, Grant MC, Wu CL, Szymanski LM. A multimodal analgesic pathway improves postpartum pain management scores as reflected by HCAHPS scores. *J Surg Anesth* 2018, 2: 119

#### Review Articles [RA]

1. Hanna MN, **Murphy JD**, Kumar K, Wu CL. Postoperative pain management in the elderly undergoing thoracic surgery. *Thorac Surg Clin* 2009; 19:353-61.
2. Hanna MN, **Murphy JD**, Kumar K, Wu CL. Regional techniques and outcome: What is the evidence? *Curr Opin Anesthesiol* 2009; 22:672-7.
3. Wu CL, **Murphy JD**. Epidural anesthesia-analgesia and patient outcomes: A perspective. *Adv Anesthesiol* 2014;2014:948164. doi:10.1155/2014/948164.
4. Wu CL, **Murphy JD**. Conflicting guidelines/consensus recommendations: what should the clinician do? *J Clin Anesth* 2014;26(1):1-2. PMID:24418510

#### Case reports [CR]

1. **Murphy J**, Slodzinski M. Right ventricular outflow tract tachycardia in the parturient. *Int J Obstet Anesth* 2008; 17(3):275-8.
2. Winder AD, Johnson S, **Murphy J**, Ehsanipoor RM. Epidural analgesia for treatment of a sickle cell crisis during pregnancy. *Obstet Gynecol* 2011; 118:495-7.
3. Cronin J, Wyhs S, Bazick Cuschieri H, Dong X, Oswald G, Russo M, Dietz H, **Murphy J**. Anesthesia considerations for cesarean delivery in a patient with Loeys-Dietz Syndrome. *Anesth Analg* 2015;4(4):47-8. PMID: 25689361
4. Kim I, Nguyen TA, Berman DJ, **Murphy JD**, Isaac GR. Successful anesthetic management of parturient with advanced abdominal pregnancy. *Anesthesiol Case Rep* 2018;1(1):16-17.
5. Nguyen TA, Duarte SS, Berman DJ, Jancic L, and **Murphy JD**. Successful management of an emergent cesarean delivery in a patient with history of Ross procedure: a case report. *Anesthesiol Case Rep* 2018;1(1):10-12.

#### Book chapters, monographs [BC]

1. Kim D, **Murphy J**, Phelps M, Harris A. Obstetric anesthesia. In: Heitmiller ES, Schwengel DA eds. *Johns Hopkins Anesthesiology Handbook*. Philadelphia, PA: Mosby; 2010:299-310.
2. Colon Guzman NA, **Murphy J**. Obstetric anesthesia. In: Hurt KJ, Guile MW, Bienstock J, eds. *Johns Hopkins Manual of Gynecology and Obstetrics*. 4<sup>th</sup> ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2011:281-288.

3. **Murphy JD**, Gelfand HJ, Wu CL. Intrathecal opioid injections for postoperative pain. In: Benzon HT, Raja SN, Fishman SM, Liu S, Cohen SP, eds. *Essentials of Pain Medicine*. 3<sup>rd</sup> ed. Philadelphia, PA: Elsevier; 2011:217-222.
4. **Murphy JD**, Gelfand HJ, Wu CL. Epidural opioids for postoperative pain. In: Benzon HT, Raja SN, Fishman SM, Liu S, Cohen SP, eds. *Essentials of Pain Medicine*. 3<sup>rd</sup> ed. Philadelphia, PA: Elsevier; 2011:223-227.
5. Laio W, **Murphy JD**, Fuller AJ. Anemia. In: Chu LF, Fuller A, eds. *Manual of Clinical Anesthesia*. Philadelphia, PA: Lippincott Williams & Wilkins; 2012:chapter 87.
6. Laio W, **Murphy JD**, Ludwin DB. Post anesthesia care unit. In: Chu LF, Fuller A, eds. *Manual of Clinical Anesthesia*. Philadelphia, PA: Lippincott Williams & Wilkins; 2012:chapter 147.
7. Grigorieva A, **Murphy JD**. Positioning of the surgical patient. In: Chu LF, Fuller A, eds. *Manual of Clinical Anesthesia*. Philadelphia, PA: Lippincott Williams & Wilkins; 2012:chapter 5.
8. Winder A, **Murphy J**. Obstetric anesthesia. In: Hurt KJ, Guile MW, Bienstock J, eds. *Johns Hopkins Manual of Gynecology and Obstetrics*. 5<sup>th</sup> ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2013:281-288.
9. Hurley RW, **Murphy JD**, Wu CL. Acute postoperative pain. In: *Miller's Anesthesia*, 8th ed. Miller RD, et al., eds. New York: Churchill Livingstone; 2013. (Recommended anesthesia text for all programs worldwide)
10. Aucott SW, **Murphy JD**. Neonatal assessment and resuscitation. In: *Chestnuts Obstetric Anesthesia: Principles and Practice 6<sup>th</sup> ed*. In press (Standard text for all obstetric anesthesia programs worldwide)

#### **Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]**

1. Chou R, Gordan DB, de Leon-Casasola O, Rosenberg JM, Bickler S, Brennan T, Carter T, Cassidy CL, Chittenden EH, Degenhardt E, Griffith S, Manworren R, McCarberg B, Montgomery R, **Murphy JD**, Perkal MF, Suresh S, Sluka K, Strassels S, Thirlby R, Viscusi E, Walco GA, Warner L, Weisman SJ, Wu CL. Management of postoperative pain: A clinical practice guideline from the American Pain Society, the American Society of Regional Anesthesia and Pain Medicine, and the American Society of Anesthesiologists' Committee on Regional Anesthesia, Executive Committee, and Administrative Council. *J Pain* 2016;17(2):131-57. PMID: 26827847

#### **Editorials [ED]**

1. **Murphy JD**, **Togioka BM**. Aspiration in early pregnancy: Risk factors revisited. Editorial. *J Clin Anesth* 2011; 23:435-6.
2. **Murphy, JD**. Book Review: Shnider and Levinson's Anesthesia for Obstetrics, 5th Edition. *Anesth Analg* 2014; 118:240.

#### **Letters, correspondence [LT]**

1. Wu CL, **Murphy JD**. Conflicting guidelines/consensus recommendations: What should the clinician do? *J Clin Anesth* 2014; 26:1-2.
2. Murphy JD, Nguyen TA. Are high-risk obstetric patients properly identified and managed? *IJOA* 2018; doi: <https://doi.org/10.1016/j.ijoa.2018.11.001>

#### **Published Abstracts**

1. McKenney S, Fallatah W, Yang S, **Murphy JD**, Marzinke M, Kurtzberg J, Lee C, Burd I, Farzin A. Maternal-neonatal transfer of preoperative cefazolin at cesarean section. *Am J Obstetr Gynecol* 2015; 212(1) Supplement:S128. doi: 10.1016/j.ajog.2014.10.276

#### **FUNDING**

#### **EXTRAMURAL FUNDING**

#### **Research Extramural Funding**

**Current**

10/17-present Evaluation of a Surgical Leveling System for Labor and Delivery  
 Sponsor: MCIC: Patient Safety Awards Program  
 Total direct cost: \$30,000  
 Role: PI

**Pending** None

**Previous**

2014–2015 The Evaluation of Right Sided Heart Pathology and Right Ventricular Systolic Pressure in Pre-Eclamptic Patients with Severe Features  
 Identification number: 309641  
 Sponsor: Discovery Fund Synergy Award  
 Total direct cost: \$80,000  
 PI: Sammy Zakaria, MD, MPH  
 Role: Co-PI; 5% effort

**Training Grant Participation****Previous**

10/07–7/08 Cellular Mechanisms of Preterm Labor in the Parturient  
 Identification number: T32GM075774  
 Sponsor: NIH T-32  
 Total direct cost: 273,888  
 PI: Martin Slodzinski, MD, PhD  
 Role: Co-investigator; 80% effort

**CLINICAL ACTIVITIES****Clinical Focus**

As an obstetric anesthesiologist, my clinical expertise focuses on the anesthetic management of the high-risk parturient in the antepartum, intrapartum, and postpartum periods. This expertise has allowed me to become a nationally recognized expert in the optimization of high-risk OB parturients as it pertains to the reduction of maternal morbidity and mortality, as well as in optimization of postpartum pain.

**Certification**

7/03-present Basic and Advanced Cardiac Life Support Certification

**Medical, other state/government licensure**

7/07–present State of Maryland, Board of Physicians  
 7/07–present Department of Health and Mental Hygiene, Division of Drug Control  
 7/07–present DEA

**Boards, other specialty certification**

7/07 American Board of Anesthesiologists, Written Boards, Passed  
 4/09 American Board of Anesthesiologists, Oral Board Exam, Passed

**Clinical (Service) Responsibilities**

2008–present Obstetric Anesthesia, Attending, 3 days/week (2017/2018: 100% clinical target achieved) Call responsibility target 20 credits per year (2017/2018: 185% over target). Manage and oversee

back up call responsibilities for the OB Anesthesia component of the fetal therapy program . On back up call for all maternal high risk emergencies.

### **Clinical Productivity**

Annual clinical productivity (patients evaluated and/or treated) is approximately 1000 patients per/year inpatient service, and 250 clinical referrals seen in outpatient CPO OB clinic. wRVU's not applicable.

### **Clinical Draw**

N/A

### **Membership in or examiner for specialty board**

None

### **Clinical Program Building/Leadership**

- 2008–2013 Director of Obstetric Anesthesia for Johns Hopkins Hospitals, Johns Hopkins University. As *director of OB Anesthesia, I provided leadership for developing new programs focused on patient safety and quality improvement, as well as for expanding clinical services.*
- 2010 Initiated epidural PCEA protocol in Labor and Delivery, Johns Hopkins University and Bayview Campuses (2011).
- 2011 Developed the first fully integrated Division of Anesthesia to service Bayview and Johns Hopkins Hospital. *Developed the first team of fellowship-trained and specialized OB anesthesiologists under one division chief to provide consistent service and coverage to both Bayview and Johns Hopkins Hospital Labor and Delivery units.*
- 2012 Designed and implemented Electronic Data Anesthesia Data Record (Metavision) for Labor and Delivery at Johns Hopkins University.
- 2013–present Division Chief, Division of Obstetric Anesthesia for Johns Hopkins Hospitals, Johns Hopkins University. *I am involved in and lead efforts to develop new programs focused on patient safety, quality improvement, and clinical service expansion.*
- 2014–present Expanded the Division of Obstetric Anesthesiology to incorporate frontier studies in anesthesia for fetal therapy.
- 2015 Designed a new, comprehensive postpartum pain protocol for labor and delivery. Included new instruction and education for residents and nursing staff, Johns Hopkins University and Bayview Campuses. *As a result of the implementation of this protocol, hospital HCAHPS scores for pain control and patient satisfaction with pain control improved significantly (10–15% on average) to above benchmark. These scores were the highest in the hospital for those categories.*
- 2015–present Created a formalized Division of Johns Hopkins International Obstetric Anesthesia. Global oversight of website design, education, and project development. *Outreach work under this division currently includes geographical areas in China, the United Arab Emirates, Sierra Leone, and South Africa. These missions have focused on the development of educational programs for health care providers and patients as well as the delivery of medical care in underserved communities.*
- 2015–2016 Implementation of the Patient and Family Centered Initiative in Obstetric Anesthesia. *The initiative focused on creating a welcoming, calm, and relaxing environment in labor and delivery and the labor and delivery ORs. This initiative included but was not limited to the initiation of skin-to-skin contact with mother and baby, use of aromatherapy, and audio distraction techniques with a goal of improving neonatal wellbeing and maternal satisfaction. **This project contributed to the Baby Friendly Certification of the Labor and Delivery Unit at Johns Hopkins. This certification is a national recognition of patient- and family-centered care that emphasizes the baby friendly concepts shown to scientifically improve fetal outcome.***
- 2016 Created and implemented a multicenter patient satisfaction survey and database in obstetric anesthesia. *This multilingual survey is distributed to all labor and delivery patients who receive anesthesia services at Howard County General Hospital, Bayview Medical Center, and Johns Hopkins Hospital. Data obtained from the survey are entered into an interactive dashboard that*

*is distributed to the anesthesia leadership team at each hospital. Data are analyzed and used to develop new quality of care initiatives within the Division of Obstetric, Gynecologic and Fetal Anesthesiology.*

- 2016 Implemented a multicenter Remifentanyl Patient Controlled Analgesia (PCA) protocol in labor and delivery. *Implementation at Johns Hopkins and Howard County General Hospitals.*
- 2017 Bloodless Medicine for Obstetrics. Created and implemented a coordinated care pathway for managing obstetric patients with special transfusion needs, including Jehovah's Witness patients and those requesting bloodless medicine techniques. This pathway focuses on providing coordinated consultations for high-risk OB patients; patients who choose bloodless medicine; and patients who require anesthesia and hematology for antepartum, intrapartum, and postpartum management. The goals are twofold: (1) to minimize the risk of hemorrhage and the need for alternative blood products or techniques and (2) to provide regional outreach services to patients requesting bloodless medicine who are unable to access services closer to home. The program focuses on consultation and then coordinated care with local physicians to provide patients with access to appropriate management prior to delivery. In the next phase of the project, which is currently underway, we will utilize the development of telemedicine consultation with community physicians and patients in the region but outside of our immediate geographic area.
- 2017 **Center for Peripartum Optimization (CPO OB)(Obstetric Anesthesia Preoperative Consultation Clinic and Coordinated Care of the High-Risk OB patient).** Created and implemented a coordinated care program designed to address increasing maternal morbidity and mortality by enhancing early recognition of high-risk patients and optimizing multidisciplinary patient care for antepartum, intrapartum, and postpartum management. *This unique innovative program, based on the 6 strategic initiatives set forth by the Johns Hopkins Health System, aims to reach 100% of the high-risk obstetric population with potentially complicated medical or surgical histories. The clinic coordinates care and ensures that patients are optimized and have a well-developed plan before delivery of their child. The program aims to reduce unnecessary medical costs, hospital length of stay, NICU length of stay, and liability issues.* The CPO OB program was developed with a modular design composed of a business model, tertiary care consultation service, telemedicine consultation service for community Level 1-3 care centers, and education/program components. Templates were created and individual modules and components have been implemented nationally based on clinical and system needs as detailed below. See article OR19.
- 2018 **National Dissemination of CPO OB Model for High Risk Obstetric Care. Henry Ford Health System (HFHS), Detroit, Michigan.** Implementation of Tertiary Care Consultation Module and Business Plan. In conjunction with the Departments of Anesthesia and Obstetrics and Gynecology, we have completed consultation work to help the hospital establish a coordinated care clinic based on templates for the business and consultation services of the CPO OB at Johns Hopkins. I established direct, in-person consultation with the OB and Anesthesia teams at HFHS in August 2018. Clinic implementation with patient care is expected to begin at the HFHS in January of 2019.

**Intermountain Health Organization, Salt Lake City, Utah.** We are currently in the process of collaborating with providers to implement our telemedicine model for the CPO OB to care for high-risk obstetric patients in over 20 hospitals across the state of Utah. Strategic initiatives for the implementation of telemedicine to rural community hospitals in Utah will address high-risk needs by optimizing patient care and transfers.

**Mayo Clinic, Rochester, Minnesota.** Planned implementation of CPO OB clinic. I am currently collaborating with the Director of Maternal Fetal Medicine at Mayo Clinic to provide consultative services to their department to help with the establishment of a CPO OB. The business model and tertiary care consultation module are expected to be implemented in early 2019.

## Clinical Demonstration Activities

Please refer to Clinical Program Building and Leadership 2018: National Dissemination of CPO OB Henry Ford Health System (HFHS). In October of 2018, as part of the consultation and collaboration with HFHS, I visited the medical center, perioperative services areas, and outpatient clinics in an effort to demonstrate how we provide care in the outpatient clinic setting for the CPO OB. During this visit, I met with nursing management, administrative leads, obstetricians, and anesthesiologists to assist them with building a team environment at HFHS that would foster and support the CPO OB implementation. As a result of these efforts, the CPO OB was implemented successfully at HFHS as of winter 2019. HFHS anesthesiologists and CPO OB physician leads have a planned visit to observe operations at the Johns Hopkins CPO OB center scheduled for spring 2019.

## EDUCATIONAL ACTIVITIES

### Educational Focus

The focus of my educational efforts is two-fold. Within the Johns Hopkins Hospital System, my educational focus is dedicated to expanding the knowledge base of anesthesiology and obstetric and gynecology residents and fellows as it pertains to the field of obstetric anesthesiology. On a regional and national level, my educational activities are focused on expanding the breadth of knowledge of obstetricians and anesthesiologists specifically to improve anesthetic management in ways that will reduce maternal morbidity and mortality and optimize postpartum pain management in the parturient.

### Teaching

#### *Classroom Instruction*

#### *JHMI/Regional*

- 2007–present Physiologic Changes of Pregnancy, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Fetal Assessment, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Local Anesthetics, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Analgesia for Labor, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Anesthesia for Cesarean Sections, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Obstetric Hemorrhage, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Hypertensive Disorders and Substance Abuse in Pregnancy, 6 times per year, 2–5 Residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Post-Dural Puncture Headache and Postoperative Analgesia, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Preterm and Abnormal Obstetric Presentations, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Obstetric Complications and Medicolegal Issues in OB Anesthesia, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Airway and Aspiration Pneumonia, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Embolism and Disorders of Coagulation, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD



- 2007–present Cardiovascular and Neurologic Disease in Pregnancy, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Non-Obstetric Surgery and in the Obstetric Patient, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Peripartum Cardiomyopathy, 6 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007–present Seizures in Pregnancy--Diagnosis and Management, 4 times per year, 2–5 residents/students, Johns Hopkins University School of Medicine, Baltimore, MD
- 5/09 Resident Lecture Series, Obstetric Anesthesia Written Board Review; Department of Anesthesiology; 75 residents
- 2011–2012 GI Prophylaxis and Aspiration, 1 lecture per year, 75 residents, Department of Anesthesiology, Johns Hopkins University School of Medicine, Baltimore, MD
- 2011–2014 Epidural and Spinal Anatomy, 1 lecture per year, 75 residents, Department of Anesthesiology, Johns Hopkins University School of Medicine, Baltimore, MD
- 2013 Surgery in the Anticoagulated Patient, 1 lecture per year, 75 residents, Department of Anesthesiology, Johns Hopkins University School of Medicine, Baltimore, MD
- 2013 Local Anesthetics and Adjuvants, 1 lecture per year, 75 residents, Department of Anesthesiology, Johns Hopkins University School of Medicine, Baltimore, MD
- 2013 Patient Positioning and Potential Injuries, 1 lecture per year, 75 residents, Department of Anesthesiology, Johns Hopkins University School of Medicine, Baltimore, MD
- 2014 Airway Anatomy, 1 lecture per year, 50 residents, Department of Anesthesiology, Johns Hopkins University School of Medicine, Baltimore, MD
- 2015 Preoperative Management. Premedication and Discontinuation of Medications in the Preoperative period. 1 lecture per year, 50 residents, Department of Anesthesiology Johns Hopkins University School of Medicine, Baltimore, MD
- 2015 Anesthesia for Plastics, Gynecology and Orthopedic cases: Regional vs GA. 1 lecture per year, 50 residents, Department of Anesthesiology Johns Hopkins University School of Medicine, Baltimore, MD

***National***

- 2014 OB Anesthesia. Written Board Review. Invited Resident Lecture. 50 residents. Department of Anesthesiology, Harvard Medical School, Brigham and Women’s Hospital, Boston, MA
- 2019 Caring for the High Risk Obstetric Patient. Anesthetic Management: a Case Based Discussion. 40 residents. Department of Anesthesiology, Emory University School of Medicine, Atlanta, GA

***International***

None

***Clinical Instruction***

***JHMI/Regional***

- 2007-2008 OB Anesthesia and General Operating Room, Attending Physician, 1 day/week, 48 weeks/year, Johns Hopkins and Johns Hopkins Bayview
- 2008-present Obstetric Anesthesia, Labor and Delivery Unit, Attending Physician, 3 days/week, 48 weeks per year, Johns Hopkins and Johns Hopkins Bayview

***National***

None

***International***

None

### **CME Instruction**

Please see Workshops/Seminars: 11/2015

### **Workshops/Seminars**

#### **JHMI/Regional**

01/16 Course Director, The Patient and Family Care Experience. A multisystem approach to training residents and faculty to negotiate the challenges involved in providing compassionate, safe, and informative care to patients and their families

#### **National**

11/15 Facilitator/Debriefing Specialist. Critical Care in Obstetrics Simulation Course. Phoenix, AZ.  
*Responsible for debriefing 175 Maternal Fetal Medicine specialists undergoing simulation training in critical care and cardiac arrest scenarios involving the obstetric patient. CME accredited course.*

### **Mentoring**

**Pre-doctoral Advisees/Mentees: none**

#### **Post-doctoral Advisees/mentees**

2010–2011 Biomedical Engineering Undergraduate Research Team. Project: Fiberoptic Guidance for Epidurals. Clinical Advisor.

2010-present Gillian Isaac, MD, PhD [Assistant Professor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University. Currently, Fellowship Director for Obstetric Anesthesia as of January 2014, and Associate Director for the Residency Program as of January 2017. Coauthored articles OR5, 7, 8, 10

2010–2013 Brandon Togioka, MD [Assistant Professor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University. Currently: Assistant Professor, Anesthesiology, Oregon Health and Science University. Director of Obstetric Anesthesia, Oregon Health and Science University. Coauthored articles OR6, 10-12, 14; ED1

2011–2012 Melissa Kresso, MD [Instructor], Obstetric Anesthesiology. Currently: Associate Professor, Anesthesiology and Perioperative Medicine and Associate Division Chief of Obstetric Anesthesia, Rochester University Hospital. Currently providing academic mentorship for curriculum development.

2012–2013 Sarah Wyhs, MD [Assistant Professor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University. Currently: Chief of Obstetric Anesthesia, Anne Arundel Medical Center. Coauthored article CR3

2013-2016 Molly Cason, [Resident], Obstetric Anesthesiology. Currently: Assistant Professor, Anesthesiology and Critical Care Medicine, University of Kansas Medical Center. Associate Director of Obstetric Anesthesia, University of Kansas Medical Center. *Awards: Best of the Best Poster Presentation Finalist: Cason M, Wyhs S, Togioka B, Rothschild J, Lindeman K, Isaac G, Murphy J. Anesthetic Management of a Parturient with Systemic Mastocytosis. Society of Obstetric Anesthesiology Conference, San Juan Puerto Rico, May 2013*

2013–2014 Lori Suffredini, [Assistant Professor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University. Director of Obstetric Anesthesia, Howard County General Hospital.

2013–2014 Heidi Cuschieri, [Assistant Professor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University. Coauthored article CR3

2013-present Maggie Lesley, [Assistant Professor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University. *Awards: First Place, Patient Safety Award. Department of Anesthesiology and Critical Care Medicine Research Day. Johns Hopkins University. December 4, 2013 for: Lesley MR, Rothschild J, Frank S, Murphy J. Implementation of a Massive*

- Transfusion Protocol Improves Blood Product Delivery Practices in Patients with Severe Postpartum Hemorrhage.* Coauthored articles OR3, 7
- 2014-present Arthur (Jason) Vaught [Fellow], Obstetrics and Gynecology and Critical Care Medicine, Johns Hopkins University. Currently Assistant Professor of Maternal Fetal Medicine and Critical Care Medicine. *Co-PI Discovery Fund Synergy Award.* Robert E. Meyerhoff Assistant Professor. Coauthored article OR20.
- 2014-2015 Ellen Cho, [Instructor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University.
- 2015-present Courtney Masear, [Assistant Professor], Obstetric Anesthesiology, Anesthesiology and Critical Care Medicine, Johns Hopkins University. Currently: Assistant Professor and Director of Quality Safety and Quality Assurance for the Division of Obstetric Anesthesiology under the Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University.
- 2015-present Diana Feinstein, [Assistant Professor], Obstetric Anesthesiology. Currently, Assistant Professor, Anesthesiology and Critical Care Medicine Temple University. Division Chief of Obstetric Anesthesiology for Temple University. *Mentoring includes development of resident education curriculum and policies for implementation at Temple University, Division of Obstetric Anesthesiology.*
- 2016-2017 HeeWon Lee [Fellow], Obstetric Anesthesiology. Currently, Assistant Professor. Anesthesiology and Critical Care Medicine, Emory University.
- 2016-present Mohammed Ibrahim, [Fellow], Obstetric Anesthesiology. Currently, Assistant Professor, Anesthesiology, University of Texas, Medical Branch. Fellowship Director, University of Texas Medical Branch. *Mentorship includes assistance with fellowship program development, including policy and procedures for the ACGME and educational program development.*
- 2017-present David Berman [Fellow], Obstetric Anesthesiology. Currently, Assistant Professor, Anesthesiology and Critical Care Medicine. Coauthored articles CR4, 5
- 2017-present Truc Anh Nguyen [Fellow], Obstetric Anesthesiology; Currently, Assistant Professor, Anesthesiology and Critical Care Medicine. Coauthored articles OR19, 22; CR4, 5

**Thesis Committees** None

### **Educational Program Building/Leadership**

- 2008–2013 Director of Obstetric Anesthesia for Johns Hopkins Hospital, Johns Hopkins University. *In this role I was responsible for the design and evolution of the educational program for medical students, residents, and fellows in obstetric anesthesia. I created new lectures, board review sessions, and a journal club. In addition, I provided mentorship for residents and fellows in research and clinical activities.*
- 2008 Created the first formal didactic lecture series at Johns Hopkins Hospital for residents on the obstetric anesthesia rotation. *This series served as a template for multiple nationally recognized academic programs in obstetric anesthesia.*
- 2010–2013 Fellowship Director, Obstetric Anesthesiology, Johns Hopkins University School of Medicine. *In this role, I developed the first advanced training program in obstetric anesthesia for Johns Hopkins that complied with ACGME accreditation standards.*
- 2010 Designed Epidural PCEA FAQ sheet for prenatal classes, Johns Hopkins University and Bayview campuses.
- 2010 Designed Web-based lectures for basic and advanced obstetric anesthesia rotations.
- 2011 Created the advanced didactic lecture series at Johns Hopkins Hospital for residents on the obstetric anesthesia rotation. *This series was a follow-up to the original didactic series. This oral board format series focused on consultation in the high-risk obstetric patient. This series served as a template for lecture series in other divisions within the Department of Anesthesiology and Critical Care Medicine.*
- 2011 NPO Policy and Protocol for Labor and Delivery. Johns Hopkins University and Bayview Campuses (2012).

- 2013-present Division Chief, Division of Obstetric Anesthesia for Johns Hopkins Hospitals, Johns Hopkins University. *I am responsible for the design and evolution of the educational program for medical students, residents, and fellows in obstetric anesthesia. This role includes creation of new lectures, board review sessions, and journal clubs. In addition, I provide mentorship for residents and fellows in research and clinical activities.*
- 2013 Expanded the resident education experience in obstetric anesthesia to include Howard County General Hospital.
- 2014 Expanded the Division of Obstetric Anesthesiology to incorporate frontier studies in anesthesia for fetal therapy.
- 2015-2016 Designed and implemented a unique, innovative, and comprehensive program to educate and expose residents to the concept of patient- and family-centered care and instruct them on how to deliver such care in an effective and safe manner. *This program involved actual live patient presentations and feedback, literature review, and lecture format education as well as the development and implementation of a simulation model for delivering effective patient- and family-centered care. The program was presented to the administration of the hospital and will be used as a concept template for other departments throughout the institution.*
- 2015-2016 Developed and implemented the first electronic orientation manual for Obstetric Anesthesiology at Johns Hopkins Hospital and Bayview Medical Center. This manual served as the standard for curriculum/rotation orientations in the Department of Anesthesiology and Critical Care Medicine.

**Educational Demonstration Activities to external audience :** None

## RESEARCH ACTIVITIES

### Research Focus

My research has focused on improving outcomes in high-risk parturients and their fetuses. My activities have included but are not limited to studies aimed at reducing maternal morbidity and mortality and studies aimed at improving outcomes in the fetus, such as in those undergoing fetal therapy interventions.

### *Non-funded research projects*

- 2013–2014 Maternal Biological Markers in CSF and Depression in the Perinatal Period  
 PI: Jennifer Payne, MD  
 Role: Co-investigator  
 Non-funded clinical research; No salary support
- 2013–2015 Maternal-Neonatal Transfer of Preoperative Antibiotics at Cesarean Section  
 PI: Azadeh Farzin, MD  
 Role: Co-investigator  
 Non-funded clinical research; No salary support
- 2014-2015 The Immune Mechanisms of Post-partum Psychosis. *Aborted study due to PI relocation.*  
 PI: Osborne  
 Role: Co-investigator  
 Non-funded clinical research; No salary support
- 2014–2016 Interdepartmental Obstetric Hemorrhage Database.  
 Role: PI  
 Non-funded clinical research; No salary support
- 2014-2017 The Evaluation of Heart Pathology, Right Ventricular Systolic Pressure (RVSP) and Brain Natriuretic Peptid (BNP) Levels in Patients with Pre-eclampsia with Severe Features.  
 PI: Sammy Zakaria

- Role: Co-investigator  
Funding: Please refer to Extramural Funding: Synergy Award
- 2014-present Pilot Trial of Fetoscopic Endoscopic Tracheal Occlusion (FETO) in Fetuses with Severe Left Congenital Diaphragmatic Hernia (CDH).  
PI: Ahmet Baschat  
Role: Co-investigator  
Departmental Funding supported by OB/Gyn; No salary support
- 2015 Thromboelastography Use in Obstetric Anesthesia. *Aborted due to PI relocation*  
PI: Maggie Lesley  
Role: Co-investigator  
Non-funded. Systemic Review and Metanalysis; No salary support
- 2017-present Post Partum Pain Pathways and Patient Satisfaction  
**PI: Jamie Murphy**  
Role: PI  
Non-funded QI study; No salary support
- 2017-present Parent Study Name: Study of Fetoscopic Repair of Myelomeningocele (MMC) in Fetuses with Isolated Spina Bifida  
PI: Jena Miller  
Role: Co-investigator  
Non-funded study; No salary support
- 2018-present The Center for Peripartum Optimization: An Innovative Approach to Care Coordination  
**PI: Jamie Murphy**  
Role: PI  
Departmental Funding
- 2018-present A Multidisciplinary Approach to Triaging Patients to the Operating Room  
**PI: Jamie Murphy**  
Role: PI  
Funded Study: Please refer to Extramural Funding: MCIC Patient Safety Award
- 2019- present Opioid Disposal Post Cesarean Delivery: Will the inclusion of medication disposal pouches with post-op opioid prescriptions increase their safe and timely disposal?  
PI: Jed Wolpaw  
Role: Co-investigator  
Non-funded study: No salary support

### **Research Program Building / Leadership**

- 2008–2013 Director of Obstetric Anesthesia for Johns Hopkins Hospitals, Johns Hopkins University  
*In this role I was responsible for mentoring residents and fellows in research interests throughout the Division of Obstetric Anesthesia. In my time as director, and now as chief, my role has included developing collaborative research efforts with the Departments of Obstetrics and Gynecology, Cardiology, Psychology, Pediatrics, and Internal Medicine.*
- 2013– present Division Chief, Division of Obstetric, Gynecologic and Fetal Anesthesia for Johns Hopkins Hospitals (JHH, Bayview, and Howard County General), Johns Hopkins University. *In this role I am responsible for mentoring residents and fellows in research interests throughout the Division of Obstetric Anesthesia. In my time as director, and now as chief, my role has included developing an international division of obstetric anesthesia focused on cultural sensitivity and*

*integration of educational materials for a global outreach program. In addition, my role has focused on the development of collaborative research efforts with the Departments of Obstetrics and Gynecology, Cardiology, Psychology, Pediatrics, and Internal Medicine.*

2015-2016 Development of a multidisciplinary database focused on the study of postpartum hemorrhage in obstetric patients. This database will be used by anesthesiology, obstetrics, and nursing to further the investigation and exploration of risk factors and management of postpartum hemorrhage.

**Research Demonstration Activities** None

**Inventions, Patents, Copyrights** None

**Technology Transfer Activities** None

## **SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES**

### **System Innovation and Quality Improvement efforts within JHMI**

2017 Designed a new IVPCA pain program for intrapartum patients on labor and delivery. Included instruction and education for residents and nursing staff at Johns Hopkins University. The program focuses on the use of remifentanyl during labor, and its goal is to provide all patients with an analgesic option for delivery while reducing the risk of neonatal depression on delivery.

### **System Innovation and Quality Improvement efforts outside of JHMI:**

2018 Intermountain Health Quality Improvement Initiative. Collaborative Initiative to implement telemedicine in the coordinated care model for high-risk OB patients in the rural community. Intermountain Health System provides obstetric care at over 20 hospitals in the urban communities in the state of Utah. This innovative project will use telemedicine to allow rural centers to communicate with experts in the field of maternal fetal medicine and obstetric anesthesia in an effort to reduce morbidity and mortality.

### **System Innovation and Quality Improvement Program Building/Leadership**

2017 Please refer to System Innovation and Quality Improvement Efforts within JHMI, IVPCA pain program. I served as the team leader and facilitator for this project. I oversaw instruction, education, and implementation.

2018 Please refer to System Innovation and Quality Improvement Efforts outside of JHMI, collaborative initiative to implement telemedicine coordinated cared model for high-risk OB patients in the rural community. I am the team leader and facilitator for this project. I am overseeing model development and future implementation.

## **ORGANIZATIONAL ACTIVITIES**

### **Institutional Administrative Appointments**

2002–2003 Task Force: Basic Science in the Clinical Years, Committee Member, Drexel University College of Medicine.

2007–2009 Faculty interviewer for new resident applicants, Anesthesiology and Critical Care Medicine.

2009–2010 Member, Anesthesiology and Critical Care Medicine Compensation Committee.

2009–2012 New Clinical Building Development Committee for OB.

2009–present Member, Gynecology SSI Committee, Johns Hopkins Hospital.

2009–present Member, Gynecology and Obstetrics Quality Assurance Committee, Johns Hopkins Hospital.

2010–2012 Member, Maternal Child Health Committee, Bayview Hospital.

2010–present Member, OR Practices and Procedures Committee, Johns Hopkins Hospital.

- 2010-2013 Member, Clinical Competency Committee, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Hospital.
- 2011-2015 Member, OB Optimal Endings Committee, Johns Hopkins Hospital.
- 2012-2014 Member, Patient Centered Care Across Maternity Services Clinical Community, Johns Hopkins Hospital
- 2012-2013 Member, Department of Obstetrics and Gynecology National Chairman Search Committee, Johns Hopkins Hospital.
- 2012-present Obstetric Anesthesiology Clinical Consultant, Johns Hopkins International, Johns Hopkins Hospital.
- 2013-2015 Member, Anesthesiology and Critical Care Medicine Compensation Committee
- 2013-present Member, Executive Service Committee, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Hospital
- 2013-present Member, Obstetric Comprehensive Unit-based Safety Program (CUSP) Committee, Johns Hopkins Hospital
- 2015-present Member, Anesthesiology and Critical Care Medicine Finance Committee, Johns Hopkins Hospital.
- 2016-present Member, Anesthesia and Analgesia P and T Committee, Johns Hopkins Hospital.
- 2016-present Member, Obstetric Anesthesia Fellowship Clinical Competency Committee, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Hospital.

## Editorial Activities

### *Editorial Board Appointments:*

- 2018-Present Journal of Surgery and Anesthesia

### *Journal Peer Review Activities (this heading should be shown as Journal peer review activities & peer reviewer should be removed from the below)*

- 2010-present *The Journal of Maternal-Fetal and Neonatal Medicine*
- 2013-present *Regional Anesthesia and Pain Medicine*
- 2014-present *Frontiers in Pediatrics and Pharmacology, Obstetric and Pediatric Pharmacology*
- 2014-2017 *British Medical Journal*

## Advisory Committees, Review Groups/Study Sections

- 2010-present National Committee Member, Residency Affairs committee, Society of Obstetric Anesthesiology and Perinatology. *Defines the national standards for resident education in obstetric anesthesia and assists in program development.*
- 2010-2015 National Committee Member, APS-ASA-VA/DoD clinical guidelines for postoperative pain management. This committee membership resulted in the creation and publication of *national guidelines* on the management of postoperative and postpartum pain. OR16.
- 2011-2014 Co-Chair, National Committee Member, MCIC Intrapartum Obesity Committee: Intrapartum Management. This committee focuses on reducing intraoperative morbidity and mortality associated with intrapartum obesity. The committee served to establish national recommendations and guidelines for caring for morbidly obese patients in the intrapartum period.
- 2016-2017 National Advisor, EMMI Solutions Medical Advisory Board. Physician advisor and consultant for postpartum pain and patient recovery. EMMI is a national corporation focused on the design and implementation of patient education materials for hospitals nationwide. EMMI is employed by Johns Hopkins as part of the information dissemination project. Members of this advisory board are responsible for the development of *local and national* educational materials.
- 2018-present Advisor, Opioid Community Guidelines Committee. Physician advisor and consultant for opioid management in obstetric patients. This committee, composed of experts from multiple surgical and medical disciplines, is tasked with developing guidelines for opioid management in

- hospitalized ambulatory patients. The guidelines developed will be published as a model for management in United States and abroad.
- 2018-present National Committee Member/Advisor, Levels of Maternal Care Committee, American College of Obstetrics and Gynecology (ACOG). *Defines the national standards for hospital stratification of care for all obstetric patients. Committee is charged with defining the national standard for which patients may be cared for in a particular hospital setting and those that should be transferred to a higher level of care center. My responsibilities on this committee are specific to consulting for how anesthesia resources impact a hospital's designation for a particular level of care as well as establishing a national program for telemedicine consultation in regards to high risk obstetrics and guidelines for its implementation in obstetric anesthesia and maternal fetal medicine.*
- 2019-present Advisor, Maryland Patient Safety Center. Committee on OB Care of Women with Opioid Use Disorder. A subcommittee of the AIMS Safe Health Care for Every Woman. This committee was formed to address the concerns of opioid use by pregnant mothers in the state of Maryland. The committee is composed of experts in nursing, obstetrics, pain medicine and anesthesia, from the Maryland state hospitals providing maternal and neonatal services to the community. My role as an advisor is based on my extensive experience as an obstetric anesthesiologist and specialist in ante/intra/post operative pain in the parturient.
- 2019-present National Committee Member, Patient Safety Committee, Society of Obstetric Anesthesiology and Perinatology. Defines the national standards and program innovation for patient safety in obstetric anesthesia.

### Professional Societies

- 2007–present American Society of Anesthesiologists  
 2007–present Society of Obstetric Anesthesiology and Perinatology  
 2015–present Society of Maternal and Fetal Medicine

**Conference organizer, Session Chair** None

### Consultantships

- 2016-2017 EMMI Solutions Medical Advisory Board. Physician advisor and consultant for postpartum pain and patient recovery. EMMI is a national corporation focused on the design and implementation of patient education materials for hospitals nationwide. EMMI is employed by the Johns Hopkins as part of the information dissemination project. Members of this advisory board are responsible for the development of *local and national* educational materials.

## RECOGNITION

### Awards, Honors

- 1995 Phi Kappa Phi Honor Society  
 1997 Magna Cum Laude, University of Maryland, College Park  
 1997 Golden Key National Honor Society  
 1997 Phi Alpha Epsilon Honor Society of Health and Human Performance, President  
 2003 Who's Who in Medical Higher Education  
 2003 Alpha Omega Alpha Medical Honor Society  
 2003 Medical Scholars Program, Drexel University College of Medicine  
 2010 Star Service Award, Johns Hopkins University  
 2015 Star Service Award, Johns Hopkins University  
 2016 Excellence in Teaching and Mentorship, Department of Obstetrics and Gynecology, Johns Hopkins University  
 2016 Excellence in Service and Professionalism, Johns Hopkins University



## INVITED TALKS, PANELS

### *JHMI/Regional*

- 3/08 Obstetric Anesthesia: Morbidity and Mortality. Maternal Fetal Medicine Conference. Johns Hopkins University Department of Obstetrics and Gynecology, Baltimore, MD
- 5/09 Obstetric Anesthesia: A review. Obstetric and Gynecology Resident Conference. Johns Hopkins University Department of Obstetrics and Gynecology, Baltimore, MD
- 12/09 Obstetric Anesthesia: Monitoring of Obstetric Patients with Cardiac Disease. Maternal Fetal Medicine Conference, Johns Hopkins University Hospital, Department of Obstetrics and Gynecology, Baltimore, MD
- 1/11 NPO Status in the Laboring Patient: Update and Changes in the National and Institutional Policies. Maternal Fetal Medicine Conference, Johns Hopkins University Hospital, Department of Obstetrics and Gynecology, Baltimore, MD
- 3/11 Obstetric Anesthesiology. Exam Pro National Maternal Fetal Medicine Board Review, Towson, MD.
- 8/11 NPO Status in Laboring Patients: Update and Changes in the Current Trends. Department of Obstetrics and Gynecology Grand Rounds, St. Mary's Hospital, Leonardtown, MD. *CME accredited lecture.*
- 2/12 Anticoagulation and Thrombocytopenia in Pregnancy. Joint conference of Obstetrics and Gynecology and Anesthesiology. Elkton Hospital, Elkton, MD *CME accredited lecture*
- 7/12 Identification and Management of Postpartum Hemorrhage. Joint Grand Rounds. Johns Hopkins University Hospital, Departments of Obstetrics/Gynecology, Surgery, and Anesthesiology, Baltimore, MD.
- 1/18 Expectations-Setting, Meeting, Exceeding. Patient Experience Grand Rounds. Johns Hopkins University Hospital, Baltimore, MD.
- 11/18 Management of Postpartum Hemorrhage in the Rural Community. Grand Rounds. St. Mary's Hospital, Leonardtown, MD *CME accredited lecture.*

### *National*

- 11/14 Options in Pain Control in the Post-Cesarean Section Patient, Department of Anesthesia, Brigham and Women's Hospital (Harvard), Boston MA.
- 2/15 Management of Intrapartum Hemorrhage in Parturient. Facilitator/Debriefing Specialist. Society of Maternal Fetal Medicine Critical Care Simulation Course. Society of Maternal Fetal Medicine Annual Meeting, San Diego, CA. *Responsible for the direction of simulation modules and course instruction for the obstetric anesthesia management of critically ill obstetric patients. CME accredited course/lecture.*
- 2/16 Maternal Arrest and Septic Shock. Facilitator/Debriefing Specialist. Society of Maternal Fetal Medicine Critical Care Simulation Course, Atlanta, GA. *Responsible for the direction of simulation modules and course instruction for the anesthetic management of maternal cardiac arrest. CME accredited course/lecture*
- 11/16 Remifentanyl in the Laboring Patient, Invited Lecturer, Society of Obstetric Anesthesia and Perinatology National Conference, Washington, DC. *CME accredited lecture session*
- 11/16 The Role of the Anesthesiologist in Baby Friendly Care, Invited Lecturer, Society of Obstetric Anesthesia and Perinatology, National Conference, Washington, DC *CME accredited lecture session*
- 11/16 Obstructive Sleep Apnea in Pregnancy, Invited Lecturer, Society of Obstetric Anesthesia and Perinatology, National Conference, Washington, DC. *CME accredited lecture session*
- 2/17 Maternal Arrest. Clinical Updates and Simulation. Society of Maternal and Fetal Medicine, National Pregnancy Meeting, Las Vegas, NV. *CME accredited course/lecture*
- 4/18 Optimizing Health Care in High Risk Obstetric Patients: A Multidisciplinary Coordinated Care Model. How Do We Define High Risk Patients? Intermountain Health Care, Salt Lake City, UT.

- 9/18 Maternal Morbidity and Mortality: Optimizing Health Care in High Risk Obstetric Patients. Henry Ford Medical Center, Detroit, MI.
- 11/18 A Coordinated Care Approach to High Risk OB: Reducing Maternal Morbidity and Mortality. Mayo Clinic, Rochester, MN.
- 01/19 Addressing The Epidemic: The Anesthesiologist Role in Reducing Maternal Morbidity and Mortality in the 21<sup>st</sup> Century. Emory University, Atlanta, GA.
- 05/19 Why Should You Care About Maternal Levels of Care: The role of obstetric anesthesia in maternal levels of care. Society of Obstetric Anesthesiology and Perinatology National Meeting. Phoenix, AZ
- 10/19 ERAS for Obstetrics: Preoperative preparations for the elective C-section. The American Society of Anesthesiologists (ASA) National Meeting. Orlando, FL

*International:* none

**Visiting Professorships** None

## **OTHER PROFESSIONAL ACCOMPLISHMENTS**

### *Abstracts, Posters*

- 4/06 Richman JM, Carter HB, Hanna MN, **Murphy JD**, Rowlingson AJ, Andrew RA, Wu CL. Efficacy of periprostatic local anesthetic for prostate biopsy analgesia: A meta-analysis. American Society of Regional Anesthesia and Pain Medicine (ASRA), Palm Springs, CA.
- 4/06 **Murphy JD**, Hanna M, Richman J, Wu CL. A systematic review of the efficacy of sustained-release opioids for postoperative analgesia. ASRA, Palm Springs, CA.
- 5/07 **Murphy JD**, Slodzinski M. Heme oxygenase 1: a novel pathway to gravid uterine quiescence. Society of Obstetric Anesthesia and Perinatology (SOAP), Banff, Canada
- 2/07 **Murphy JD**, Slodzinski M. Heme oxygenase in human myometrial cells and tissue. Society of Maternal Fetal Medicine Conference, San Francisco, CA.
- 5/08 Newman G, **Murphy J**, Kim D, Lesley MR, Kong GJ, Wu CL. Meta-analysis of the effect of clonidine on labor epidural analgesia. SOAP, Chicago, IL.
- 5/08 Newman G, **Murphy J**, Lin EE, Kong GJ, Wu CL. Meta-analysis of ondansetron versus placebo for the prevention and treatment of opioid-induced pruritus in obstetric patients. SOAP, Chicago, IL.
- 5/09 Lin EE, George JA, Hanna MN, **Murphy JD**, Wu CL. The effect of patient-controlled analgesia with and without background infusion on respiratory depression. ASRA, Phoenix, AZ.
- 5/09 Blaha KK, **Murphy JD**, Newman G, Vallera C, Hanna MN, Wu CL. PCEA vs. intermittent dosing for labor analgesia. SOAP, Washington, DC.
- 5/09 Newman G, **Murphy JD**, Khalil C, Blaha KK, Vallera C, Wu CL. Analgesic efficacy of intrawound infusion of local anesthetic after Cesarean section. SOAP, Washington, DC.
- 5/09 Newman G, **Murphy JD**, Khalil C, Blaha KK, Vallera C, Wu CL. Analgesic efficacy of NSAIDs after Cesarean section. SOAP, Washington, DC.
- 5/09 Blaha KK, **Murphy JD**, Newman G, Vallera C, Hanna MN, Wu CL. Meta-analysis of the efficacy of PCEA with background infusion vs. continuous infusion for labor analgesia. SOAP, Washington, DC.
- 5/09 Newman G, Blaha KK, **Murphy JD**, Vallera C, Hanna MN, Wu CL. PCEA without background infusion vs continuous epidural infusion for labor analgesia. SOAP, Washington, DC.
- 5/09 Blaha KK, **Murphy JD**, Newman G, Vallera C, Hanna MN, Wu CL. The effect of background infusion for PCEA on labor analgesia: a systematic review. SOAP, Washington, DC
- 5/10 Gelfand H, Horng FA, **Murphy JD**, Newman G, Vallera C, Wu CL. Air versus saline and analgesic efficacy for labor. SOAP, San Antonio, TX.
- 5/10 Horng FA, Sumida SM, Grunseich C, **Murphy JD**, Newman G, Wu CL. Survey of skin preparation technique during neuraxial procedures. SOAP, San Antonio, TX.
- 5/10 Togioka B, **Murphy JD**, Gelfand H, Newman G, Vallera C, Wu CL. Meta-analysis of the efficacy of epidural naloxone in decreasing postoperative pruritus and PONV. SOAP, San Antonio, TX.
- 5/10 Togioka B, Bicket M, **Murphy JD**, Newman G, Vallera C, Wu CL. Analgesic efficacy of intravenous naloxone for the treatment of postoperative pruritus. SOAP, San Antonio, TX.

- 5/10 Gelfand H, **Murphy JD**, Horng FA, Newman G, Vallera C, Wu CL. Meta-analysis of the efficacy of transversus abdominis plane block after abdominal surgery. SOAP, San Antonio, TX.
- 5/10 Johnson S, **Murphy JD**. Case Report: Cesarean section with subsequent mitral valve stenosis in a patient with severe mitral valve stenosis. SOAP, San Antonio, TX.
- 5/10 Burton L, **Murphy JD**. Case report: urgent thyroidectomy for an obstructive goiter in a pregnant woman. SOAP, San Antonio, TX.
- 5/10 Horng F, Blaha K, **Murphy JD**. Case report: combined spinal and epidural anesthesia in a multiparous patient with Kippel Trenaunay Weber Syndrome. SOAP, San Antonio, TX.
- 5/11 Togioka BM, Johnson S, Hamzehzadeh S, Ulatowski J, **Murphy J**. Inadvertent dural puncture in a parturient with a symptomatic, unruptured cerebral aneurysm. SOAP, Las Vegas, NV.
- 5/11 **Murphy JD**, Ouanes JP, Parra MC, Sumida SM, Togioka BM, Isaac GR, Wu CL. Injection of fluid through into the epidural space prior to epidural catheter insertion: A meta-analysis. SOAP, Las Vegas, NV.
- 5/11 Clark PW, **Murphy JD**. Anesthetic management of hereditary hemorrhagic telangiectasia in a parturient. SOAP, Las Vegas, NV.
- 5/11 Clark PW, **Murphy JD**. Wyburn-Mason Syndrome and management of cerebral AVMs during labor. SOAP, Las Vegas, NV.
- 5/11 Johnson S, **Murphy JD**. Neuraxial blockade in the management of sickle cell crisis during pregnancy. SOAP, Las Vegas, NV.
- 5/12 Reeves R, Togioka BM, Wu CL, **Murphy JD**. Unilateral epidural hematoma in a pre-eclamptic postpartum patient. SOAP, Monterey, CA.
- 5/12 Cason M, Kreso M, **Murphy JD**. Neuraxial anesthesia for a parturient with giant platelet syndrome. SOAP, Monterey, CA.
- 5/12 Wyhs S, Togioka BM, Wu CL, **Murphy JD**. Posterior reversible encephalopathy syndrome in a patient with previously unrecognized postpartum eclampsia. SOAP, Monterey, CA.
- 5/12 Lesley MR, Togioka BM, Rothschild J, Wu CL, **Murphy JD**. Labor management of a parturient with a subaortic membrane in the setting of severe preeclampsia. SOAP, Monterey, CA.
- 2012 Khafagy AM, Burke AE, **Murphy JD**, Argani C, Werner EF. Maternal risk factors for severe perineal laceration in spontaneous vaginal deliveries. SGI.
- 4/13 Cason M, Wyhs S, Togioka B, Rothschild J, Lindeman K, Isaac G, **Murphy J**. Anesthetic management of a parturient with systemic mastocytosis. SOAP, San Juan, Puerto Rico.
- 4/13 Lesley MR, Rothschild J, Frank S, **Murphy J**. Implementation of a massive transfusion protocol improves blood product delivery practices in patients with severe postpartum hemorrhage. SOAP, San Juan, Puerto Rico.
- 4/13 Rothschild JA, Lesley MR, **Murphy JD**, Birsner ML, Frank SM. Postpartum hemorrhage and blood product utilization: comparison by mode of delivery for childbirth. SOAP, San Juan, Puerto Rico.
- 4/13 Morrissey C, Rothschild J, Isaac G, Lindeman K, **Murphy J**, Togioka B. Anesthetic management of a patient with vascular type Ehlers-Danlos. SOAP, San Juan, Puerto Rico.
- 4/13 Purvin M, Wyhs S, Isaac G, Lindeman K, **Murphy J**, Togioka. Regional anesthesia in Cesarean section for a parturient with a recurrent-treatment-resistant intracranial aneurysm. SOAP, San Juan, Puerto Rico.
- 10/13 Cronin J, Dong X, Oswald G, Russo M, Winder A, Graham E, Dietz H, **Murphy J**. Anesthesia considerations of Loeys-Dietz Syndrome in pregnancy. ASA, San Francisco, CA.
- 5/14 Cason M, Owens S, Ertuk MA, Ouanes JP, **Murphy JD**, Suffredini L, Wu C, Bottomly P. Evaluation of epidural and peripheral nerve catheter heating during magnetic resonance imaging. SOAP, Toronto Canada.
- 5/14 Beaudry S, Bazick-Cuschieri H, **Murphy JD**. Perioperative management of a parturient with severe preeclampsia, lymphangiomyomatosis, and respiratory failure on venovenous extracorporeal membrane oxygenation (ECMO) undergoing cesarean section. SOAP, Toronto Canada.
- 10/14 Chien D, **Murphy JD**, Mittman S. Anesthetic management of a cesarean section with known placental abruption and occult uterine rupture. ASA, New Orleans, LA.
- 10/14 Pandya P, **Murphy JD**, Suffredini L. Use of thromboelastography in an obstetric patient with Glanzmanns thrombasthenia. ASA, New Orleans, LA.

- 5/15 Lesley MR, Dietrich JL, Grundy ME, Maxwell BG, **Murphy JD**. Extracorporeal life support (ECLS) for anticipated right heart failure at Cesarean delivery in a parturient with severe pulmonary arterial hypertension. SOAP, Colorado Springs, CO.
- 2/16 Vaught AJ, Seifert SM, O’Kelly A, Szymanski LM, **Murphy JD**. Abnormal diastolic filling patterns identified in preeclampsia with severe features. SMFM, Atlanta, GA.
- 5/16 Seifert SM, Vaught AJ, O’Kelly A, Szymanski LM, Zakaria S, **Murphy JD**. Evaluation of right sided heart pathology, right ventricular systolic pressure and brain natriuretic peptide in patients with preeclampsia with severe features. SOAP, Boston, MA.
- 5/16 Rapalje A, Lesley MR, Murphy JD. The use of thromboelastography in obstetric anesthesiology: survey of current practice. SOAP, Boston, MA.
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