

Curriculum Vitae

1) Personal Information

- Ben Cobb, MD
- N2198 UNC Hospitals
CB# 7010
Chapel Hill, NC 27599-7010
- 803-318-3447

2) Education

- Obstetric Anesthesiology Fellowship
Stanford University, Palo Alto, Ca
July, 2015
- Anesthesiology Residency
University of Washington, Seattle, WA
June, 2014
- Doctor of Medicine
The Medical University of South Carolina, Charleston, SC
May, 2010
- Post-Baccalaureate Studies
The University of South Carolina, Columbia, SC
June, 2004 – August, 2005
- Bachelor of Arts: Major American Studies (with Honors)
The University of the South, Sewanee, TN
May, 2004

Active Certifications and Licenses:

Diplomat, American Board of Anesthesiology, Certificate No. 53684, 4/23/2015
North Carolina Medical Board, License No. 2015-00089, 1/21/2015

ASA POCUS Certification, 2022

Advanced Cardiac Life Support, 2023

Neonatal Resuscitation Program, 2020

DEA Registration FC5163047, 2020

TeamSTEPPS, 2017

Center for Medical Simulation Debriefing Training, Boston, MA, 2017

National Provider Identifier 1598089377

3) **Professional Experience – Employment History**

- Clinical Associate Professor
Department of Anesthesiology
University of North Carolina, Chapel Hill
December, 2021 – Present
- Clinical Assistant Professor (joint appointment)
Department of Obstetrics and Gynecology
University of North Carolina, Chapel Hill, NC
December, 2021 - Present
- Clinical Assistant Professor
Department of Anesthesiology
University of North Carolina, Chapel Hill
August, 2015 – December, 2021
- Clinical Assistant Professor (joint appointment)
Department of Obstetrics and Gynecology
University of North Carolina, Chapel Hill, NC
2017 – December, 2021

4) **Honors**

Academy of Educators Member
University of North Carolina, Chapel Hill
2018 - Present

The Best Intra-Op/On-The-Fly Teacher Award
2022

Residency Faculty Teaching Award
University of North Carolina, Chapel Hill
2021-22

Teaching Honor Roll
University of North Carolina, Chapel Hill
2016-2019, 2022

Residency Faculty Mentorship Award
University of North Carolina, Chapel Hill
2017-2018

Doximity Foundation Travel Award - Malawi
University of North Carolina, Chapel Hill
2019

Best Case Reports
Society for Obstetric Anesthesia and Perinatology Annual Meeting
May, 2017

Gertie Marx Research Competition, 2nd Place
Society for Obstetric Anesthesia and Perinatology Annual Meeting
May, 2015

Anesthesia Resident of the Year
University of Washington, Seattle
June, 2014

Obstetric Anesthesia Resident of the Year
University of Washington, Seattle
June, 2014

5) Bibliography and products of scholarship

● Books and Chapters

Cobb, BG, MD and Harker, E. 2020. Maternal Cardiomyopathy and Critical Care Medicine. In: Einav, S, Weiniger, CF, Landau, R, editors. Principles and Practices of Maternal Critical Care. Switzerland: Springer. P. 135-148.

Cobb, BG and Lipman, SS. 2017. Perimortem Cesarean Delivery for Maternal Cardiac Arrest. In: McEvoy, M, Furse, C, editors. Perioperative Crisis Management and Advanced Life Support. USA: Oxford. P. 303-307.

● Refereed Papers/Articles

○ Original research

McKenzie, C, Straube, L, Webster, C, Cobb, BG, Stuebe, A. 2022. A Quality Improvement Effort to Reduce Inpatient Opioid Consumption following Cesarean Delivery. Am J Perinatol.

Eisenried, A, Austin, N, Cobb, BG, Akhbardeh, A, Carvalho, B, Yeomans, DC, Tzabazis, AZ. 2018. Correlation of changes in hemodynamic response as measured by Cerebral Optical Spectrometry with subjective pain ratings in volunteers and patients: a prospective cohort study. J Pain Res. 11:1991-1998.

Cobb, BG, Abir, G, Carvalho, B. 2018. Preoperative anterior thigh temperature does not correlate with perioperative temporal hypothermia during cesarean delivery with spinal anesthesia: Secondary analysis of a randomized control trial. *Int J Obstet Anesth.* 33:40-45.

Weiniger, CF, Cobb, BG, Wang, RR, Carvalho, B. 2017. Observational Study Using Ultrasound to Assess Midline Labor Epidural Analgesia Placement and Analgesic Efficacy: Using Ultrasound to Assess Midline Labor Epidural Analgesia Placement. *J Ultrasound Med.* 1693-1699.

Cobb, BG, Cho, Y, Hilton, G, Ting, V, Carvalho, B. 2016. Active Warming Utilizing Combined IV Fluid and Forced-Air Warming Decreases Hypothermia and Improves Maternal Comfort During Cesarean Delivery: A Randomized Control Trial. *Anesth Analg.* 122(5): 1490-7.

McKenzie, CP, Cobb, BG, Riley, ET, Carvalho, B. 2016. Programmed intermittent epidural boluses for maintenance of labor analgesia: an impact study. *Int J Obstet Anesth.* 26: 21-8.

Greene, NH, Cobb, BG, Linnau, KF, Kent, CD. 2015. Measurements of Epidural Space Depth Using Preexisting CT Scans Correlate with Loss of Resistance Depth during Thoracic Epidural Catheter Placement. *Anesthesiol Res and Pract.* [accessed 2021 May 13]: <http://doi.org/10.1155/2015/545902>.

Matthew MD, Smalley, JC, Nietert, PJ, Field, LC, Furse, CM, Blenko, JW, Cobb, BG, et al. 2012. Validation of a Detailed Scoring Checklist for Use During Advanced Cardiac Life Support Certification. *Simul Healthc.* 7(4): 222-35.

Submitted:

Bruce, K, Desai, S, Reilly, K, Keil, A, Swanson, M, Cobb, B, Zahn, K, McKenzie, C, Coviello, E, Mallampati, D, Tully, K, Kolarczyk, L, Maaske, S, Quist-Nelson, J. 2023. Use of postpartum hemorrhage checklist during vaginal deliveries: A quality improvement initiative.

○ Other peer reviewed articles

Keil, D, Murphy, B, Cobb, B. 2021. Acute spinal cord injury in the parturient: Anesthetic management for combined anterior cervical spinal decompression and fusion and cesarean delivery. *A&A Practice.* 16(5): 1-3.

Hammond, B, Straube, L, Cobb, BG. 2020. Expectant management of a

parturient with serotonin syndrome: a case report. *Obstet Med.* [accessed 2021 May 13]: <http://doi.org/10.1177/1753495X211011906>.

Cobb, BG and Lipman, SS. 2017. Cardiac Arrest: Obstetric CPR/ACLS. *Clin Obstet Gynecol.* 60(2): 425-430.

Carvalho, B, George, RB, Cobb, BG, Piascik, C, Riley, ET. 2016. Implementation of Programmed Intermittent Epidural Bolus for the Maintenance of Labor Analgesia: A Focused Review. *Anesth Analg.* 123(4): 965-71.

- **Editorials or letters**

Riley, ET, McKenzie, CP, Cobb, BG, Carvalho, B. 2017. Response to Bigwood, et al. *Int J Obstet Anesth.* 30: 76.

Cohen, S, Mhyre, J, Carvalho, B, Einav, S, Arafeh, J, Jeejeebhoy, F, Cobb, BG, Druzen, M, Katz, V, Harney, K, Lipman, SS. 2016. Response to Rose, et al. *Am J Obstet Gynecol.* 043(3).

- **Refereed Unpublished Oral Presentations**

Fritz A, Hood CR, Cobb BG. 2023. No Laughing Matter: Nitrous Oxide in Labor and Delivery and the Environment. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. (*solicited*)

Hart, WM, Tulley, K, Quist-Nelson, J, Cobb, B. 2023. Perspectives on the Creation and Implementation of a Maternal Cardiac Care Team and Pathway at a Tertiary Care Medical Center. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. (*solicited*)

Cureton, B, Hood, C, Bruce, K, Cobb, B, Quist-Nelson, J. 2023. Trends of Racial Ethnic Differences in Protocolized Postpartum Hemorrhage Checklist Use in Cesarean Deliveries. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. (*solicited*)

Cureton, B, Hood, C, Bruce, K, Cobb, B, Quist-Nelson, J. 2023. Improving Cesarean Hemorrhage Through the Use of a Protocolized Checklist; a Quality Improvement Initiative. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. (*solicited*)

Quist-Nelson J, Desai S, Reilly K, Keil A, Bruce K, Swanson M, Cobb B, Zahn K, McKenzie C, Coviello C, Mallampati D, Kolarczyk L. 2023. Increasing postpartum hemorrhage checklist use: A quality improvement initiative. Society for Maternal-Fetal Medicine 43rd Annual Meeting, San Francisco, CA. (*solicited*)

Hart, M, McKenzie, C, Cobb, B. 2022. Successful labor analgesia in parturient with suspected Bernard-Soulier Syndrome. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. *(solicited)*

Wallace, DK, Hart, WM, Straube, LE, Cobb, B. 2022. Coronary Artery Embolus-Induced Peripartum MI in Parturient with Fontan Physiology. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. *(solicited)*

Sholes, P, Straube, L, Smith, K, Cobb, B. 2022. Primary pulmonary hypertension in late second trimester parturient presenting with hemoptysis and dyspnea: A role for point of care ultrasound (PoCUS)? Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. *(solicited)*

Dengler, E, Keil, D, Straube, L, Cobb, B. 2022. Improving Nursing Compliance with Ventilatory Checks after Neuraxial Morphine Administration. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. *(solicited)*

Moulthrop, A, McKenzie, C, Cobb, B. 2022. Breastfeeding after Anesthesia: Giving the Greenlight. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting. *(solicited)*

Keil, D, Murphy, B, Cobb, B. 2021. Acute spinal cord injury in the parturient: Anesthetic management for combined anterior cervical spinal decompression and fusion and cesarean delivery. *Accepted to poster session for American Society of Anesthesiologists Annual Meeting; San Diego (Covid-19). (solicited)*

Dengler, E, Choucair, A, Cobb, B. 2021. High spinal with reduced dose CSE in an obese parturient for cesarean delivery. *Accepted to poster session for American Society of Anesthesiologists Annual Meeting; San Diego (Covid-19). (solicited)*

McKenzie, C, Straube, L, Stuebe, A, Johnson, J, Cobb, B. 2021. Evaluating racial disparities in truncal blocks with liposomal bupivacaine post cesarean delivery. 2021. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; *Virtual. (solicited)*

Swengel, J, Cobb, B. 2021. Pharmacologic management of hemorrhage in a Covid-19 positive parturient with HELLP syndrome and a breech twin vaginal delivery: a case report. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; *Virtual. (solicited)*

Hart, M, Gue, J, Cobb, B. Newborn Cyanosis During Post-Cesarean Skin-to-Skin in the OR. Poster session presented at: American Society of Anesthesiologists Annual Meeting, *Virtual. (solicited)*

McKenzie, C, Straube, L, Cobb, B, Webster, C, Stuebe, A. 2020. Changing the as-needed opioid medication order to reduce opioid consumption after cesarean section. Poster session presented at: Society for Maternal Fetal Medicine Annual Meeting; Grapevine. *(solicited)*

Hammond, B, Straube, L, Cobb, B. 2019. Expectant Management of a Parturient with Serotonin Syndrome. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Phoenix. *(solicited)*

McMillian D, McKenzie CP, Cobb B, Linton J, Straube L, Nanda M. 2019. Do Quadratus Lumborum Blocks add to the Analgesic Benefit of Intrathecal Morphine and Scheduled NSAIDS after Cesarean Delivery? Poster session presented at: ASRA 44th Annual Regional Anesthesia and Acute Pain Medicine Meeting; Las Vegas. *(solicited)*

Woodward, S, Rose, K, Cobb, B, Smith, K. 2018. Post-cesarean Pain in Parturients on Buprenorphine: A Single Center Retrospective Study. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Miami. *(solicited)*

Sriram, N, Fardelmann, K, Cobb, B. 2018. Anesthetic Management of a Parturient with Subarachnoid Hemorrhage. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Miami. *(solicited)*

Fardelmann, K, Cobb, B. 2018. Anesthetic Management in a Parturient with Myotonia Congenita. Poster session presented at: Society for Obstetric Anesthesia and Perinatology Annual Meeting; Miami. *(solicited)*

Penwarden, A, Cobb, K, Cobb, B. 2017. Operative vaginal delivery during extracorporeal membrane oxygenation support for severe acute respiratory distress syndrome: A case report and review of the literature. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Bellevue. *(solicited) *Best Case Reports*

Conrad, N, Halweg, P, Cobb, B, McNaull, P. 2016. Emergency intubation in the setting of a critical airway and no venous access: anesthetic challenges and the importance of interdisciplinary communication. Poster session presented at: American Society of Anesthesiologists Annual Meeting; Chicago. *(solicited)*

Cobb, B, Ralls, L, Carvalho, B. 2016. Anesthesia for cesarean delivery with a dilated aortic root, severe pre-eclampsia, and acquired von Willebrand disease: a case report. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Boston. *(solicited)*

Cobb, B, Cho, Y, Hilton, G, Carvalho, B. 2015. Prediction of Perioperative Hypothermia and Response to Active Warming in Women Undergoing Scheduled

Cesarean Delivery. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Colorado Springs. *(solicited)*

Cobb, B, Austin, N, Tzabazis, A, Eisenried, A, Carvalho, B. 2015. Developing and Testing an Objective Pain Measurement Device in Laboring Women. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Colorado Springs. *(solicited)*

McKenzie, C, Cobb, B, Carvalho, B, Riley, E. 2015. Programmed Intermittent Epidural Boluses Implementation for Labor Analgesia: A Retrospective Impact Analysis. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Colorado Springs. *(solicited)*

Weiniger, C, Wang, R, Cobb, B, Carvalho, B. 2015. Neuraxial Ultrasound to Assess Midline Epidural Placement and Related Clinical Efficacy. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; Colorado Springs. *(solicited)*

Cobb, B, Podorean, K, Rozet, I. 2013. Post-Operative Stridor: A Challenging Diagnosis. Poster session presented at: American Society of Anesthesiologists Annual Meeting; San Francisco. *(solicited)*

Cobb, B, Ortner, C, Vuilleumier, P, Bollag, L, Landau, R. 2013. Methamphetamine Induced Cardiomyopathy in the Parturient. Poster session presented at: Society of Obstetric Anesthesia and Perinatology Annual Meeting; San Juan. *(solicited)*

Cobb, B, Penn, E. 2009. Cyclic Fevers, Rash, Heart Murmur, and Joint Pain in a Previously Healthy Young Adult. Poster session presented at: Southern General Internal Medicine Annual Meeting; New Orleans. *(solicited)*

- **Unrefereed Papers/Articles**

Cobb, B. 2020. Telemedicine in the SARS Covid-19 Pandemic: Ensuring Access to Care. Anesthesiology News. [accessed 2020 May];
<https://www.anesthesiologynews.com/Online-First/Article/04-20/Telemedicine-in-the-COVID-19-Pandemic-Ensuring-Access-to-Care/58245>

Cobb, B, Lipman, S. 2016. The American Heart Association Updates and Expands Recommendations for Maternal Cardiac Arrest in 2015. Society for Obstetric Anesthesia and Perinatology Winter Newsletter. 5-10.

6) Teaching Activities

Course Director

Academic Medicine Rotation, Assistant Course Director
University of North Carolina, Department of Anesthesiology
2022-Present

Obstetric Anesthesia Resident Rotation, Course Director
University of North Carolina, Department of Anesthesiology
2017 – 2020

Obstetric Anesthesia Resident Elective Rotation, Course Director
University of North Carolina, Department of Anesthesiology
2017 – 2020

Otolaryngology (ENT) Anesthesia Resident Rotation, Course Director
University of North Carolina, Department of Anesthesiology
August, 2017 – 2018

Lectures

To medical students

2016-2020 (annually). Obstetric Anesthesiology. Anesthesiology 401. UNC SOM.

2015-2019 (annually). Vasoactive Medications. Anesthesiology 401. UNC SOM.

To residents

2021-Present (annually). Basic Workshop. POCUS Lecture Series: Basic. UNC SOM.

2021-Present (annually). Obstetric Anesthesia. POCUS Lecture Series: Advanced. UNC SOM.

2021-Present (annually). Maternal Pharmacology. Clinical Anesthesia Advanced Board Prep Series. UNC SOM.

2016-Present (monthly). Amniotic Fluid Embolism. Obstetric Anesthesia Resident Lecture Series. UNC SOM.

2016-Present (monthly). Short Obstetric Procedures for the Anesthesiologist. Obstetric Anesthesia Resident Lecture Series. UNC SOM.

2016-Present (annually). Obstetric Anesthesia Review. Clinical Anesthesia Advanced Board Prep Lecture Series. UNC SOM.

2015-Present (annually). Central Nervous System Physiology. Clinical Anesthesia Basic Board Prep Lecture Series. UNC SOM.

2018 (monthly). Non-obstetric Surgery in Pregnancy. Obstetric Anesthesia Resident Lecture Series. UNC SOM.

To fellows

2022-Present (annually). Neurologic Disorders and Obstetric Anesthesia. Obstetric Anesthesia Fellow Lecture Series. UNC SOM.

2016-Present (annually). Invasive Placentation: ‘Tell me something I don’t already know.’ Obstetric Anesthesia Fellow Lecture Series. UNC SOM.

2016-Present (annually). Medico-legal Issues in Obstetric Anesthesia. Obstetric Anesthesia Fellow Lecture Series. UNC SOM.

2016-Present (annually). Post Cesarean Analgesia. Obstetric Anesthesia Fellow Lecture Series. UNC SOM.

Grand Rounds

At UNC

Martinelli, S, Teeter, E, Cobb, B, Rosenkrans, D. 2023. Departmental Residency Education Update. (invited)

Cobb, B, Quist-Nelson, J, Schiff, L. 2023. Multidisciplinary Obstetric Simulation: ‘The UNC Experience and Next Steps.’ (invited)

Cobb, B, McKenzie, C. 2020, Oct. Obstetric Anesthesia: Refresher on Serious Complications. (invited)

Grand Rounds Panel. 2017, Aug. Consortium of Anesthesiology Patient Safety and Experiential Learning: Departmental Update on Simulation. (invited)

Cobb, B, McKenzie, C. 2016, Sept. Revisiting an Old Paradigm: Programmed Intermittent Epidural Bolus. (invited)

Outside UNC

2017, Mar. Revisiting an Old Paradigm: Programmed Intermittent Epidural Bolus. Beth Israel Deaconess Medical Center. (invited)

2016, Nov. Revisiting an Old Paradigm: Programmed Intermittent Epidural Bolus.” Medical University of South Carolina. (invited)

Continuing Education Lectures

At UNC

2022, Mar. Point of Care Ultrasound & Obstetrics: A Survey of the Literature. Maternal Fetal Medicine Fellow Lecture Series.

2018, Jan. Revisiting an Old Paradigm: Programmed Intermittent Epidural Bolus. Maternal Fetal Medicine Fellow Lecture Series.

Outside UNC

2023, June. Amniotic Fluid Embolism. XLIX Annual Refresher Course in Anesthesiology and Perioperative Medicine, Mexican Society of Anesthesiology, Mexico City, Mexico. (invited)

2023, June. Obstetric Anesthesia: A Refresher on Serious Complications. XLIX Annual Refresher Course in Anesthesiology and Perioperative Medicine, Mexican Society of Anesthesiology, Mexico City, Mexico. (invited)

2023, Feb. Soap Fundamentals Expert Panel. SOAP Fundamentals, Virtual Event. (invited)

2023, Jan. Amniotic Fluid Embolism. SOAP Fundamentals, Virtual Event. (invited)

2019, Sept. Making Sense of the SOAP VTE Guidelines. Carolinas Anesthesiology Annual Meeting, Asheville, NC. (invited)

2019, June. Update on Post Cesarean Analgesia: A Tour of Hot Topics. Carolina Refresher Course, Kiawah Island, SC. (invited)

2019, June. Active Management of Labor Analgesia. Carolina Refresher Course, Kiawah Island, SC. (invited)

2017, June. Pre-Eclampsia: A Survey of Recent Literature. Carolina Refresher Course, Kiawah Island, SC. (invited)

2017, June. PBLD - Pre-Eclampsia: A Survey of Recent Literature. Carolina Refresher Course, Kiawah Island, SC. (invited)

2016, Nov. Pre-eclampsia: A Survey of Recent Literature. Medical University of South Carolina. (invited)

2015, May. Active Warming Utilizing Forced Air and Intravenous Fluid Warming Combined Decreases Hypothermia and Shivering During Cesarean Delivery. Gertie Marx Research Competition, Society for Obstetric Anesthesia and Perinatology Annual Meeting. (invited) *2nd Place

Lab or Research Teaching/Mentorships

Academic Medicine Rotation QI Project Mentor, 2022-23
University of North Carolina, Department of Anesthesiology

Academic Medicine Rotation QI Project Mentor, 2021-22
University of North Carolina, Department of Anesthesiology

Resident Mentor, 2016-Present
University of North Carolina, Department of Anesthesiology

Systematic PONV prophylaxis feedback to improve anesthesiology resident performance: A quality improvement project. 2014

Clinical Teaching

Mock Oral Board Examiner
University of North Carolina, Department of Anesthesiology
2016-Present

Mock OSCE Evaluator, 2016-Present
University of North Carolina, Department of Anesthesiology
2016 – Present (every other year)

Train the Trainer Simulation - Facilitator
Maternal Health Learning and Innovation Center
2021

UNC Gateway Debriefing Course – Faculty
University of North Carolina, Chapel Hill
2018

Maternal Fetal Medicine Curriculum Development (suggested reading list)
University of North Carolina, Department of Anesthesiology
2016

Student Preceptorships

Coach for Anesthesiology Intern/CA1
University of North Carolina, Department of Anesthesiology
2019 – 2020

Anesthesiology Preceptor Enrichment Program
University of North Carolina, School of Medicine
2016 - 2017

Graduate Supervision, Committees

ACGME Anesthesiology Residency, Assistant Program Director
2022 - Present

ACGME Obstetric Anesthesia Fellowship, Program Director
University of North Carolina, Department of Anesthesiology
2020 – Present

Consortium of Anesthesiology Patient Safety and Experiential Learning Faculty
University of North Carolina, Department of Anesthesiology
August, 2016 – Present

UNC Malawi Initiative, Faculty Member
University of North Carolina, Department of Anesthesiology
September-October, 2019

7) Professional Service

• To discipline

○ State

- Member of North Carolina Society of Anesthesiologists, 2015-present
- Member of Washington State Society of Anesthesiologists, 2010-2014

○ National

- Society of Academic Associations of Anesthesiology and Perioperative Medicine (SAAAPM), 2020-Present.
 - Association of Anesthesiology Subspecialty Program Directors (AASPD), 2020-present.
- Society for Obstetric Anesthesia and Perinatology, 2012-present.
 - Special Interest Group (SIG): Fellowship Program Directors, Member, 2022-2023
 - Trainee Curriculum Committee (Formerly: Education Committee), Member, 2018-2022
 - Abstract Reviewer for SOAP Annual Meeting, 2017, 2019, 2020, 2021
 - Critical Care Sub-Committee, Member, 2018-2020
 - Poster Session Moderator, 2017 (invited)
- Member of American Medical Association, 2010-2020
- Member of American Society of Anesthesiologists, 2010-present

- **Within UNC: Institutional Committees**

OB Safety Review Committee, Member, 2021 - Present

Multidisciplinary Obstetric Simulation, Physician Co-Lead, 2016 – 2023

Maternal Cardiac Care Planning Team, Member, 2021 - 2023

Value Stream Leadership Team, Member, Women's Hospital, 2019 – 2021

Quality Improvement in Women's and Infant Care (QWIPIC), Member, 2018-2019

Pain/Anesthesia P&T Subcommittee, Member, 2018 – 2019

Hemorrhage Reduction on Labor and Delivery Project (Simulation Subcommittee), Member, 2015 – 2016

- **Within UNC: Departmental Committees**

The Excellence in Anesthesiology at Chapel Hill Education Research (TEACHER) Lab, Member, 2022 - Present

Peer Review Committee, Member, 2021 - Present

ACGME Residency Clinical Competency Committee, Member, 2017 – Present

ACGME Residency Program Evaluation Committee, Member, 2017 – 2021, 2022 - Present

Resident Recruitment Committee, Member & Interviewer, 2017 – 2019, 2022 – Present

Department Research Committee, Member, 2019 – 2023

UNC Crisis Support Team, Member, 2016 – 2019

- **Within UNC: Division Committees**

ACGME Fellowship Program Evaluation Committee, Member, 2017 – Present

ACGME Fellowship Clinical Competency Committee, Member, 2016- Present (chair 2016-2020)

Obstetric Anesthesia Fellowship Research Coordinator, 2016 - 2020

- **Within UNC: Other**

Residency Recruitment, Interviewer, 2017 – 2019, 2022 - Present

High-Risk Obstetric Anesthesia Clinic, Coordinator, August, 2016 – Present

Obstetric Anesthesia Fellowship Recruitment, Interviewer, August, 2016 – Present

Obstetric Anesthesia Interest Virtual Panel, Moderator, 2021

UNC Covid-19 Labor and Delivery Training Video, Facilitator, 2020

UNC Covid-19 Intubation Training Video, Facilitator, 2020

SOAP Center of Excellence Designation, Application Lead, 2019, 2023

Opioid PCA for Labor Protocol Development and Implementation Project, 2016 – 2018

- **Peer-reviewer**

Journal of Clinical Anesthesia, 2023

International Journal of Gynecology & Obstetrics, 2021, 2022, 2023

Anesthesia and Analgesia, 2019, 2020, 2022

Resuscitation, 2018, 2020

International Journal of Obstetric Anesthesia, 2017, 2018, 2021

Obstetrics and Gynecology, 2015, 2016, 2017

Case Reports in Anesthesiology, 2016