

SNACC Director-at-Large Application

Application Deadline: April 30, 2026, at 11:59 pm ET

Directors-at-Large are voting members of the Board of Directors and are involved in decision making on issues pertaining to governance and strategy of the Society according to its mission and bylaws. Directors-at-Large advise the Executive Committee in the overall functioning of the society. In addition, the Directors may be asked by the Executive Committee to lead specific committees, subcommittees, task forces, councils, or special projects. Attendance at all Board meetings is expected.

Elected members of the SNACC Board of Directors have significant responsibilities, and potential candidates must have time to make this commitment to the Society and the specialty. The responsibilities of Directors-at-large are outlined in detail in [SNACC Bylaws](#).

Minimum Prerequisites

- At least three years of active membership of SNACC in good standing.
- Demonstration of track record of service to SNACC (such as active participation and/or leadership in SNACC committees/councils/task forces, active contributions to the newsletter, the Journal of Neurosurgical Anesthesiology, and participation in the Annual Meeting program).
- Dedication to the values of SNACC and its mission, and commitment to diversity, equity, and inclusion

Self-nominations are accepted for this post. Alternatively, active members of the Society can nominate another member by describing the strengths of the nominee and highlights of their CV. The nominating committee will pursue consent from the nominee before considering their candidacy.

Nominee's Name	Samuel Blacker
Nominee's Email Address	samuel.blacker@gmail.com
Credentials (e.g., MD)	MD
Current Institution	University of North Carolina
SNACC Member Since (Year)	2019

Upload Headshot



Upload CV



Blacker CV April 2026.docx

Services to SNACC (limit to no more than five (5) most significant services)

Member, SNACC Quality and Patient Safety Committee (2022–present)
First author and leader of SNACC Clinical Practice Guidelines for Complex Spine Surgery
Faculty, SNACC Annual Meeting workshops on EVD management
Contributor to SNACC Annual Meeting (1 presentation, upcoming panel)
JNA author for multiple articles and also peer reviewer of multiple articles

Relevant Leadership Experience (limit to no more than five (5))

Neuroanesthesiology Section Chief, UNC (2025–present)
Medical Director, Anesthesia Support Services, UNC (2020–present)
Department Chief of Anesthesia, Womack Army Medical Center

Your commitment to diversity, equity, and inclusion (limit 50 words)

I am committed to fostering inclusive teams and equitable environments, particularly through advocacy for anesthesia technicians and allied staff. My leadership focuses on mentorship, representation, and creating systems that value diverse backgrounds and perspectives to improve team performance, education, and patient care.

How do you envision advancing SNACC as a Director-at-Large? (limit 150 words)

I aim to advance SNACC by strengthening its role in translating evidence into clinical practice through guidelines, systematic reviews, and quality initiatives. I will support member engagement through practical resources, education, and collaboration across institutions. I am particularly interested in expanding SNACC's impact in quality and patient safety, including initiatives such as EVD safety and perioperative

pathways. I also see opportunities to integrate emerging technologies, including AI, into education and research to enhance member value. Finally, I will advocate for multidisciplinary inclusion and international collaboration to ensure SNACC remains a leader in neuroanesthesiology worldwide.

Anything else you would like considered in your candidacy (limit 50 words)

My leadership experience spans military, academic, and health system environments, with a focus on collaboration. I believe in servant leadership and view the BOD as an opportunity to serve SNACC members and its mission. I bring a track record of building programs, mentoring trainees, and delivering impactful research

Name of Person Submitting Nomination	Samuel Blacker
Email Address of Person Submitting Nomination	samuel.blacker@gmail.com

Curriculum Vitae
Samuel N. Blacker, MD, FASA
March 2026

Contact Information

Address:

UNC Department of Anesthesiology

N2198 UNC Hospital

CB# 7010

Chapel Hill, NC 27599-7010

Phone: 919-966-5136

E-mail: samuel_blacker@med.unc.edu

EDUCATION and TRAINING

Postgraduate Training:

July 2008 – June 2011

Residency:

National Capital Consortium, Washington DC and
Bethesda, MD; Anesthesiology

July 2007- June 2008

Internship:

Walter Reed Army Medical Center, Washington, DC;
Transitional

Degrees:

August 2003- May 2007

Medical School:

Uniformed Services University of the Health Sciences,
Bethesda, MD; Doctor of Medicine

August 1999- May 2003

Undergraduate University:

University of Delaware, Newark, DE.
Bachelor of Chemical Engineering
Minor in Chemistry

LICENSURE and CERTIFICATION

April 2012-Present

American Board of Anesthesiology

October 2017 - Present

North Carolina Medical License #: 2017-02314

January 2009-Present

Virginia Medical License #:0101244853

PROFESSIONAL APPOINTMENTS and EMPLOYMENT

Academic Appointments

December 2021-Present	Clinical Associate Professor, University of North Carolina at Chapel Hill, Department of Anesthesiology
June 2018 – December 2021	Clinical Assistant Professor, University of North Carolina at Chapel Hill, Department of Anesthesiology
August 2014-June 2018	Clinical Assistant Professor, Anesthesiology, Uniformed Services University of the Health Sciences, Bethesda, MD While stationed at Womack Army Medical Center, affiliated teaching site of USUHS

Administrative Appointments

May 1, 2025-Present	NeuroAnesthesiology Section Chief, University of North Carolina at Chapel Hill, Department of Anesthesiology
January 2021-June 2023	Physician Innovator, UNC Health Enterprises (0.25 FTE)
October 2020-Present	Medical Director, UNC Hospital Anesthesia Support Services
November 2015-June 2018	Department Chief, Department of Anesthesia, Womack Army Medical Center, Fort Bragg, NC
May 2014-October 2015	Assistant Department Chief, Department of Anesthesia, Womack Army Medical Center, Fort Bragg, NC
July 2012-September 2013	Obstetric Anesthesia Section Chief, Womack Army Medical Center, Fort Bragg, NC

Clinical Appointments

June 2018-Present	Anesthesiologist UNC Medical Center Chapel Hill, NC
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May 2014-June 2018	Anesthesiologist, Womack Army Medical Center, Fort Bragg, NC
September 2013-May 2014	Anesthesiologist, Bastion Hospital, Camp Bastion, Helmand Province, Afghanistan (Combat Deployment with the US Army)
July 2011-September 2013	Anesthesiologist, Womack Army Medical Center, Fort Bragg, NC

HONORS

International Anesthesia Research Society

January 2026	Second Place, <i>Editors' Choice Award</i> , Anesthesia & Analgesia, Award Presentation scheduled for May 3, 2026 at the IARS Annual Meeting, Montreal, Canada. Awarded Article: An Exploratory Analysis of ChatGPT Compared to Human Performance with the Anesthesiology Oral Board Examination.
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University of North Carolina

September 2025	UNC Department of Anesthesiology Faculty Research Honor Roll
June 2025	UNC Department of Anesthesiology Faculty Teaching Honor Roll
June 2024	UNC Department of Anesthesiology Faculty Teaching Honor Roll
May 2020-present	UNC School of Medicine Academy of Educators, Faculty Member
March 2019	UNC School of Medicine Academy of Educators, Mentored Member Inductee

United States Army

June 30, 2018	Honorable Discharge from US Army Active Duty
May 25, 2018	Selection List for Promotion to Lieutenant Colonel
May 15, 2018	Awarded the Meritorious Service Medal

December 2014	Army Medical Department Captains Career Course
April 28, 2014	Awarded the NATO Medal
April 26, 2014	Awarded the Army Commendation Medal
September 2013- May 2014	Combat Deployment, Camp Bastion, Afghanistan
May 19, 2013	Promoted to Major, USA, Medical Corps
July 1, 2011	Awarded the Army Achievement Medal
May 19, 2007	Commissioned Captain, USA, Medical Corps
March 9, 2005	German Troop Duty Proficiency Badge, Gold
July 2003	Army Medical Service Corps Officer Basic Course
June 9, 2003	Commissioned Second Lieutenant, USAR

BIBLIOGRAPHY

Books and Book Chapters

1. **Samuel Blacker** "Chapter 23: Clinical Application of Perioperative Brain Health." In *Perioperative Medicine: A Problem-Based Learning Approach. Anaesthesiology: A Problem-Based Learning Approach*, edited by Deborah C. Richman, Debra D. Pulley, and Adriana D. Oprea. 520 pages. Oxford: Oxford University Press, 24 January 2025. ISBN: 9780190902001

Peer-Reviewed Articles

Original Research

1. Vincent A, Burbridge MA, Chaikittisilpa N, Chakraborty I, Chong M, Chowdhury T, Garcia P, Gaudet JG, Kiatchai T, Prabhakar H, Shiferaw AA, Shrestha GS, Tan PCS, Tavares C, Vacas S, **Blacker SN**, Lele AV, Mejia-Mantilla J. Perspectives on Analgesia for Craniotomy: A Survey of Anesthetic Practices. *J Neurosurg Anesthesiol.* 2025 Jul 1;37(3):319-324. doi: 10.1097/ANA.0000000000001033. PMID: 40490260.

2. **Blacker SN**, Chen F, Winecoff D, Antonio BL, Arora H, Hierlmeier BJ, Kacmar RM, Passannante AN, Plunkett AR, Zvara D, Cobb B, Doyal A, Rosenkrans D, Brown KB Jr, Gonzalez MA, Hood C, Pham TT, Lele AV, Hall L, Ali A, Isaak RS. An Exploratory Analysis of ChatGPT Compared to Human Performance With the Anesthesiology Oral Board Examination: Initial Insights and Implications. *Anesth Analg*. 140(6):p 1253-1262, June 2025. doi: 10.1213/ANE.0000000000006875. PMID: 39269908.
3. Lele AV, Prabhakar H, Lin V, Kapoor I, Mahajan C, Athiraman U, Chaikittisilpa N, Abate Shiferaw A, Mejia-Mantilla JH, Tan P, **Blacker S**. External Ventricular Drain Management in Aneurysmal Subarachnoid Hemorrhage: Perspectives and Practices From Low-Income and Middle-Income Countries. *Cureus*. 2025 Apr 30;17(4):e83265. doi: 10.7759/cureus.83265. PMID: 40453290
4. Sharma S, Dube SK, Esmail T, Hoefnagel AL, Jangra K, Mejia-Mantilla J, Shiferaw AA, De Sloovere V, Wright D, Lele AV, **Blacker SN**. Assessing Practice Variation of Anesthetic Management for Endovascular Thrombectomy in Acute Ischemic Stroke: A Comprehensive Multicenter Survey. *J Neurosurg Anesthesiol*. 2025 Apr 1;37(2):196-205. doi: 10.1097/ANA.0000000000000976. PMID: 38973631.
5. Wang WY, Holland IC, Fong CT, **Blacker SN**, Lele AV. Personalizing Prediction of High Opioid Use in the Neurointensive Care Unit: Development and Validation of a Stratified Risk Model for Acute Brain Injury Due to Stroke or Traumatic Brain Injury. *J Clin Med*. 2024 Nov 22;13(23):7055. doi: 10.3390/jcm13237055. PMID: 39685513; PMCID: PMC11642241.
6. **Blacker SN**, Kang M, Chakraborty I, Chowdhury T, Williams J, Lewis C, Zimmer M, Wilson B, Lele AV. Utilizing Artificial Intelligence and Chat Generative Pretrained Transformer to Answer Questions About Clinical Scenarios in Neuroanesthesiology. *J Neurosurg Anesthesiol*. 36(4):p 346-351, October 2024 doi: 10.1097/ANA.0000000000000949. PMID: 38124357.
7. **Blacker SN**, Woody N, Abate Shiferaw A, Burbridge M, Bustillo MA, Hazard SW, Heller BJ, Lamperti M, Mejia-Mantilla J, Nadler JW, Rath GP, Robba C, Vincent A, Admasu AK, Awraris M, Lele AV. Differences in Perioperative Management of Patients Undergoing Complex Spine Surgery: A Global Perspective. *J Neurosurg Anesthesiol*. 36(3):p 218-227, July 2024 doi: 10.1097/ANA.0000000000000919. PMID: 37192477.
8. Isaak RS, Kolarczyk LM, **Blacker S**, McNaull PP, Arora H, Zvara DA. Time Will Tell: Going Beyond Relative Value Units and American Society of Anesthesiologists Units to Objectively Quantify Nonclinical Contributions in Academic Medical Practice. *Anesth Analg*. 2021 Mar 1;132(3):910-915. PMID: 33394596.

Systematic Reviews, Meta-Analyses, Societal Guidelines, and Other Publications

1. Lele AV, Raquer A, Mejia-Mantilla J, Tsan SEH, Shrestha GS, Lin V, **Blacker SN**, Marinelli S, Tan PCS, Wahlster S, Gempeler A. Efficacy of IV Ketamine in Refractory/Super-Refractory Status Epilepticus: A Systematic Review and Meta-Analysis. *Neurol Clin Pract*. 2026 Apr;16(2):e200584. doi: 10.1212/CPJ.0000000000200584. Epub 2026 Jan 14. PMID: 41550426
2. **Blacker SN**, Prabhakar H, Moreton EO, Burbidge M, Dunn L, Gouker LN, Heller BJ, Jangra K, Kang M, Nadler JW, De Sloovere V, Raquer A, Shrestha GS, Sindelar B, Williams J, Winecoff D, Yajnik V, Lele AV. Effect of Bundled Care on External Ventricular Drain Infections: A Systematic Review and Meta-analysis. *J Neurosurg Anesthesiology* 38(1):p 23-31, January 2026. | DOI: 10.1097/ANA.0000000000001014 PMID: 41243982.
3. Winecoff D, Moreton EO, Bryden A, Kang M, Wasserman R, Williams J, Lele AV, **Blacker SN**. Anesthetic reporting in stroke thrombectomy randomized clinical trials: a systematic review. *J Clin Neurosci*. 2025 Dec 5;144:111785. doi: 10.1016/j.jocn.2025.111785. PMID: 41352131.
4. Doyal A, Vander Ploeg M, Wnek R, An X, Nanda M, Serrano R, **Blacker S**, Chen F. Leveraging Artificial Intelligence in Anesthesiology Research and Article Writing: Opportunities, Challenges, and Best Practices. *AA Pract*. 2025 Jul 14;19(7):e02009. doi: 10.1213/XAA.0000000000002009. PMID: 40657800.
5. Lele AV, Moreton EO, Mejia-Mantilla J, **Blacker SN**. The Implementation of Enhanced Recovery After Spine Surgery in High and Low/Middle-income Countries: A Systematic Review and Meta-Analysis. *J Neurosurg Anesthesiol*. 2025 Jul 1;37(3):242-254. doi: 10.1097/ANA.0000000000001006. PMID: 39298547.
6. Mondal S, Emmanuel M, Reindorf R, Mali M, Toursavadkahi S, Ghoreishi M, Williams B, Deshpande SP, Fernando RJ, Augoustides JG, **Blacker SN**, Smeltz AM. Anesthetic and Perioperative Considerations in Endovascular Aortic Valve, Aortic Root, and Ascending Aorta Repair (Endo-Bentall Procedure) for Acute Type A Aortic Dissection: A Single Academic Center Experience. *J Cardiothorac Vasc Anesth*. 2025 Jun;39(6):1583-1593. doi: 10.1053/j.jvca.2025.02.013. Epub 2025 Feb 11. PMID: 40011137.
7. **Blacker SN**, Burbidge M, Chowdhury T, Gouker LN, Heller BJ, Kang M, Moreton E, Nadler JW, Sindelar LBD, Vincent AN, Williams JH, Lele AV. Intraoperative Anesthetic Care During Emergent/Urgent Craniotomy or Craniectomy for Intracranial Hypertension or Herniation: A Systematic Review. *J*

Neurosurg Anesthesiol. 2024 Nov 15. doi: 10.1097/ANA.0000000000001014.
Epub ahead of print. PMID: 39793097.

8. Lele AV, Moreton EO, Sundararajan J, **Blacker SN**. Perioperative care of patients with recent stroke undergoing nonemergent, nonneurological, noncardiac, nonvascular surgery: a systematic review and meta-analysis. Curr Opin Anaesthesiol. Current Opinion in Anaesthesiology 37(5):p 460-469, October 2024 doi: 10.1097/ACO.0000000000001403. PMID: 39011660
9. **Blacker SN**, Vincent A, Burbridge M, Bustillo M, Hazard SW, Heller BJ, Nadler JW, Sullo E, Lele AV; Society for Neuroscience in Anesthesiology and Critical Care. Perioperative Care of Patients Undergoing Major Complex Spinal Instrumentation Surgery: Clinical Practice Guidelines from the Society for Neuroscience in Anesthesiology and Critical Care. J Neurosurg Anesthesiol. 2022;34(3):257-276

Published Case Reports

1. Straube LE, de Ridder GG, Huber CA, **Blacker SN**. Spinal Anesthetic in a Patient With a Platelet Count of $7000 \times 10^9/L$ and Undiagnosed Thrombotic Thrombocytopenic Purpura: A Case Report. A A Pract. 2020 Apr;14(6):e01184. doi: 10.1213/XAA.0000000000001184. PMID: 32224693.
2. **Blacker SN**, Whalen FX. *Vasoplegia syndrome: Does the timing of methylene blue matter?* Journal of Anesthesia and Clinical Research. 2013;4:333-335.
3. **Blacker SN**, Angelo TE. *Anesthetic management of a parturient with thalidomide phocomelia*. Open Journal of Anesthesiology. 2012;2(2):59-61.
4. **Blacker SN**, Brown CQ, Tarant NS. Autonomic dysreflexia-like syndrome in a T12 paraplegic during thoracic spine surgery. Anesth Analg. 2010 Nov;111(5):1290-2. doi: 10.1213/ANE.0b013e3181f334b8. PMID: 20829560.

Refereed (Peer Reviewed) Published Letter to the Editor/Response to Letters to the Editor

1. **Blacker SN**, Chen F, Isaak RS. In Response. Anesth Analg. 2025 Aug 1;141(2):e20. doi: 10.1213/ANE.0000000000007345. Epub 2024 Nov 21. PMID: 39773738.
2. **Blacker SN**, Lele AV. Response. J Neurosurg Anesthesiol. 2024 Jan 1;36(1):91-92. doi: 10.1097/ANA.0000000000000869. Epub 2022 Sep 7. PMID: 36069826.

Accepted Peer-reviewed Articles

1. Rosenkrans, D. Owensby, K. Magin, J. McCain, M. Teeter, E. **Blacker, S.** Chen, F. A Comparative Analysis of Human and AI-Augmented Feedback in Anesthesiology Education. Journal of Education in Perioperative Medicine. Accepted for Publication 12/15/2025. Manuscript is 18 pages, 35 pages total with Tables, Figures, and Supplemental Documents

Submitted Peer-reviewed Articles

1. **Blacker SN**, Prabhakar H, Moreton EO, Burbridge M, Dunn L, Gouker LN, Heller BJ, Jangra K, Kang M, Nadler JW, De Sloovere V, Raquer A, Shrestha GS, Sindelar B, Williams J, Winecoff D, Yajnik V, Lele AV. Ventriculostomy-Related Infections by Country-Income Level: A Systematic Review and Bayesian Hierarchical Meta-analysis. Undergoing Revisions with the Journal of Neurosurgical Anesthesiology, Manuscript number: JNA-D-25-00234. Originally submitted October 29, 2025. Manuscript is 13 pages, 17 pages total with Tables, Figures, and Supplemental Documents

Problem Based Learning Discussions

1. **Blacker, SN.** Polytrauma Patient with External Ventricular Drain (EVD), Now What? Presented October 12 and 13, 2025 at the American Society of Anesthesiologists Annual Meeting. San Antonio, TX. (Solicited)
2. **Blacker, SN.** Busting Craniotomy Myths and Dogmas: Analgesia and Hyperosmolar Agents. Presented October 11 and 12, 2025 at the American Society of Anesthesiologists Annual Meeting. San Antonio, TX. (Solicited)
3. **Blacker, SN.** Neuroanesthesia Myths And Dogmas (updated). Presented October 20 and 22, 2024 at the American Society of Anesthesiologists annual meeting, Philadelphia, PA. (Solicited).
4. **Blacker, SN.** Incorporating Enhanced Recovery and Best Practices for Spine Surgery (updated). Presented October 19 and 20, 2024 at the American Society of Anesthesiologists annual meeting, Philadelphia, PA. (Solicited)
3. **Blacker, SN.** Webb, A. ERAS for Spine Surgery in Pediatric and Adult Patients. Presented June 20, 2024 at the 2024 Carolina Refresher Course. Kiawah, SC. (Invited)
4. **Blacker, SN.** Incorporating Enhanced Recovery and Best Practices for Spine Surgery (updated), Presented October 14 and 15, 2023 at the American Society of Anesthesiologists annual meeting, San Fransisco, CA. (Solicited)

5. **Blacker, SN.** Neuroanesthesia Myths and Dogmas, October 14 and 15, 2023 at the American Society of Anesthesiologists annual meeting, San Francisco, CA. (Solicited)
6. **Blacker, SN.** Bumps Along the Road: Working Through Equipment Issues, Presented October 22 and 23, 2022 at the American Society of Anesthesiologists annual meeting, New Orleans, LA. (Solicited)
7. **Blacker, SN.** Incorporating Enhanced Recovery and Best Practices for Spine Surgery (updated), Presented October 22 and 24, 2022 at the American Society of Anesthesiologists annual meeting, New Orleans, LA. (Solicited)
8. **Blacker, SN.** Incorporating Enhanced Recovery and Best Practices for Spine Surgery, Presented June 13, 2022 at the 2022 Carolina Refresher Course, Kiawah, SC. (Invited)
9. **Blacker, SN.** Incorporating Enhanced Recovery and Best Practices for Spine Surgery, Presented October 10 and 11, 2021 at the American Society of Anesthesiologists annual meeting, San Diego, CA. (Solicited) Due to COVID-19 Travel Restrictions, the PBLD was presented live by Manuel Vallejo, MD, DMD, West Virginia University
10. **Blacker SN.** Caring For the Elderly: Incorporating the Perioperative Brain Health Initiative into Clinical Anesthesiology (updated), Presented at the American Society of Anesthesiologists annual meeting, October 9 and 10, 2021, San Diego, CA. (Solicited). Due to COVID-19 Travel Restrictions, the PBLD was presented live by Julia Metzner, MD, University of Washington
11. **Blacker, SN.** Preoperative Optimization and Intraoperative Acidosis in a Complex Cancer Patient, Presented October 3, 2020 at the American Society of Anesthesiologists annual meeting, online presentation. (Solicited)
12. **Blacker, SN.** Caring For The Elderly: Incorporating The Perioperative Brain Health Initiative into Clinical Anesthesiology, Presented October 3, 2020 at the American Society of Anesthesiologists annual meeting, online presentation. (Solicited)
13. **Blacker, SN.** Preoperative Optimization and Intraoperative Acidosis in a Complex Cancer Patient, Presented October 19 and 20, 2019 at the American Society of Anesthesiologists annual meeting, Orlando, FL. (Solicited)

Scheduled Problem Based Learning Discussions

1. **Blacker, SN.** Bumps Along the Road: Working Through Equipment Issues, Scheduled Presentation October 2026 at the American Society of Anesthesiologists annual meeting, San Diego, CA. (Solicited)
2. **Blacker, SN.** Polytrauma Patient with External Ventricular Drain (EVD), Now What? Scheduled Presentation October 2026 at the American Society of Anesthesiologists annual meeting, San Diego, CA. (Solicited)

Presentations cancelled due to COVID

Enhanced Recovery After Surgery for Spine Surgery. 2020 MUSC Health Spine Conference, Kiawah Island, SC. Invited. October 24, 2020

Poster Discussions

1. **Blacker S**, Chen F. *The Impact of Additional Study Materials on Anesthesiology Residents' Performance in Mock Oral Board Examinations.* Presented by Fei Chen, April 5, 2025 at the Idea Lab Oral Presentation at the SEA 2025 Spring Meeting, Austin, Texas (Solicited)
2. Lin J, Kaltman K, **Blacker SN.** *Thoracolumbar Fusion Surgery One Week After Liver Transplantation.* Presented October 18, 2024 by Jasmin Lin at the American Society of Anesthesiologists annual meeting, Philadelphia, PA (Solicited)
3. Odumosu J, Wisniewski M, Campbell N, Sumner M, **Blacker SN**, McNulty L. *Reducing Waste by Appropriate Use of the Reds Sharps Bins.* Presented October 20, 2024 by John Odumosu at the American Society of Anesthesiologists annual meeting, Philadelphia, PA (Solicited)
4. **Blacker SN**, Chen F, Winecoff D, Isaak R. *Comparing ChatGPT vs. Human Performance on the Anesthesiology Oral Board Exam.* Presented May 16, 2024, at the UNC Academy of Educators Evening of Scholarship, Chapel Hill, NC. (Solicited)
5. Prabhu I, Grant SA, **Blacker SN.** *Don't Get Burned, Where's the Electrocautery Pad?* Presented October 15, 2023 by Indraneel Prabhu, at the American Society of Anesthesiologists annual meeting, San Francisco, CA (Solicited)
6. Tripi J, Willis E, Abdel A, Skyles A, Miller N, **Blacker SN**, Stander S. *Implementing a Post-Anesthesia Care Unit (PACU) Phase II Fast-Track Policy.* Presented October 15, 2023 by Jennifer Tripi, at the American Society of Anesthesiologists annual meeting, San Francisco, CA (Solicited)
7. **Blacker SN**, Chen F, Winecoff D, Isaak R. *Comparing ChatGPT vs. Human Performance on the Anesthesiology Oral Board Exam.* Presented September 13,

2023 by Daniel Winecoff at the UNC Anesthesiology Department Celebration of Research, Chapel Hill, NC. (Solicited)

8. Grosshuesch C, Ghanavatian S, Tripi J, Egan E, Woody N, Karpala M, **Blacker SN**, Harendra Arora MD. *Does Access Equal Excess? A Quality Improvement Initiative to Reduce Intraoperative Albumin Use*. Presented October 23, 2022 by Craig Grossheusch at the American Society of Anesthesiologists annual meeting, New Orleans, LA. (Solicited)
9. **Blacker SN**, Vincent A, Burbridge M, Bustillo M, Hazard SW, Heller BJ, Nadler JW, Lele AV. *Spine Enhanced Recovery, Best Practice, and Levels of Evidence for each Pathway Element*. Presented online by Samuel Blacker at the Virtual SNACC 49th Annual Meeting, September 11, 2021. (Solicited)
10. Khatri N, **Blacker SN**. *Implementation of a Perioperative Covid-19 Patient Protocol*. Presented as a pre-recorded online presentation by Nasir Khatri at the 2020 ASA Virtual Annual Meeting, October 3-5, 2020. (Solicited)
11. Goldberg M, Doan V, Swearingen J, Hunter D, Kang M, **Blacker SN**. *Implementation and Outcomes of an Enhanced Recovery After Spine Surgery Pathway*. Presented as a pre-recorded online presentation by Michael Goldberg at the 2020 ASA Virtual Annual Meeting, October 3-5, 2020. (Solicited)
12. **Blacker SN**, Vincent A, Burbridge M, Bustillo M, Hazard SW, Heller BJ, Nadler JW, Sullo E, LeleAV. *Spine Enhanced Recovery Elements and Level of Evidence*. Presented online by Samuel Blacker at the Virtual SNACC 48th Annual Meeting, September 13, 2020. (Solicited)
13. Goldberg M, Doan V, Swearingen J, Hunter D, Kang M, **Blacker SN**. *Implementation of an Enhanced Recovery After Spine Surgery Pathway*. Presented online by Samuel Blacker at the Virtual SNACC 48th Annual Meeting, September 13, 2020. (Solicited)
14. Straube L, Huber C, **Blacker SN**. *A Spinal Anesthetic with a Platelet Count of 7,000 in a Patient with Undiagnosed Acquired Thrombotic Thrombocytopenic Purpura*. Medically Challenging case. Presented May 4, 2019 by Lacey Straube at the Society of Obstetric Anesthesia and Perinatology annual meeting, Phoenix, AR. (Solicited)
15. Matthews L, Huber C, **Blacker S**. *Emergent Decompressive Craniotomy in a 27-week Parturient with Intracranial AVM Rupture and Refractory Elevated Intracranial Pressure*. Medically Challenging case. Presented May 3, 2019 by Leslie Matthews at the Society of Obstetric Anesthesia and Perinatology annual meeting, Phoenix, AR. (Solicited)

Poster Session Moderator/Facilitator

Facilitator, Medically Challenging Cases, Monitor 17, for 12 presentations, October 19, 2019 at the American Society of Anesthesiologists annual meeting, Orlando, FL (2 hours)

Workshops

1. Faculty, *Neuroanesthesia Skill Workshop*. Workshop Scheduled March 11, 2026 for UNC Anesthesiology Residents. Chapel Hill, NC (Invited)
2. Faculty, *Perioperative Neuromonitoring Workshop*. Workshop conducted September 12, 2025 at the 2025 Society for Neuroscience in Anesthesiology and Critical Care Annual Meeting. Atlanta, GA (Solicited).
3. Faculty, *Airway Workshop: Emergency Cricothyroidectomy*. Workshop conducted June 19, 2024 at the 2024 Carolina Refresher Course. Kiawah, SC. (Invited)
4. Faculty, *Quality and Safety Related to Patients with Intracranial Pressure Monitoring and Cerebrospinal Fluid Diversion Devices*. Workshop conducted at the Society for Neuroscience in Anesthesiology and Critical Care, Annual Meeting. September 8, 2023, Alexandria, VA (solicited)
5. Faculty panelist, Finance Panel: *Investing Through a Crisis*. Panel for residents and junior faculty. UNC Department of Anesthesiology, Chapel Hill, NC. June 10, 2020. (Invited)
6. Faculty, *Central Line Insertion Task Trainer*. American College of Surgeons Introduction to Simulation Based Teaching. University of North Carolina, Chapel Hill, NC. December 6, 2019. (Invited)

Scheduled Workshops

1. Faculty, *External Ventricular Drain Management*. Workshop scheduled June 20, 2026 at the 2026 Carolina Refresher Course. Kiawah, SC. (Invited)

TEACHING ACTIVITIES

May 2025-Present

Resident Rotation Director

UNC Anesthesiology Residency Rotation Director for Neuroanesthesia

October 2021-Present	Anesthesia Tech Lecture Series Director Organizing curriculum, faculty, and staff for continuing education lectures for the UNC Anesthesia Techs
February 2019-March 2021	Resident Rotation Director UNC Anesthesiology Residency Rotation Director for ENT Anesthesia
September 2012-October 2017	Clerkship/Rotation Site Director Uniformed Services University, School of Medicine, Womack Army Medical Center Anesthesiology Site Rotation Director for rotating Medical Students
September 2012-October 2017	Clerkship/Rotation Site Director Womack Army Medical Center, Oral Surgery Residency, Anesthesia Rotation Director

Lectures to UNC Medical Students

May 2019-present One lecture monthly	<i>Basics of Neuroanesthesia and Neurophysiology</i>
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Lectures to UNC Department of Anesthesiology Residents

March 17, 2026	Obstetrics Physiology
February 10, 2026	<i>Vaporizers, Gas Laws, and Volatile Agents</i>
November 18, 2025	<i>Respiratory Physiology</i>
July 15, 2025	<i>Basics of Pharmacology</i>
July 9, 2025	<i>Introduction to the Anesthesia Consent</i>
May 28, 2025	<i>Introduction to the Anesthesia Consent</i>
February 11, 2025	<i>Volatile Agents and Gas Laws</i>
September 10, 2024	<i>Neuroanesthesia and Neurophysiology: How Patient Condition and Anesthetics Effect Cerebral Blood Flow, Cerebral Metabolic Rate and Intracranial Pressure</i>

July 23, 2024	<i>Basics of Pharmacology</i>
July 10, 2024	<i>Inhaled Anesthetics</i>
July 2, 2024	<i>Introduction to the Anesthesia Consent</i>
June 5, 2024	<i>Inhaled Anesthetics</i>
May 21, 2024	<i>Introduction to the Anesthesia Consent</i>
May 7, 2024	<i>Respiratory Physiology</i>
November 28, 2023	<i>Obstetric Anesthesia Physiology</i>
September 12, 2023	<i>Basics of Pharmacology</i>
August 8, 2023	<i>Vaporizers, Gas Laws, and Volatile Agents</i>
July 10, 2023	<i>Inhaled Anesthetics</i>
July 6, 2023	<i>Introduction to the Anesthesia Consent</i>
June 6, 2023	<i>Inhaled Anesthetics</i>
May 23, 2023	<i>Introduction to the Anesthesia Consent</i>
February 21, 2023	<i>Neuroanesthesia and Neurophysiology: How Patient Condition and Anesthetics Effect Cerebral Blood Flow, Cerebral Metabolic Rate and Intracranial Pressure</i>
July 8, 2022	<i>Inhaled Anesthetics</i>
July 1, 2022	<i>Introduction to the Anesthesia Consent</i>
May 27, 2022	<i>Vaporizers, Gas Laws, and Volatile Agents</i>
May 24, 2022	<i>Introduction to the Anesthesia Consent</i>
November 23, 2021	<i>Obstetric Anesthesia Physiology</i>
August 17, 2021	<i>Vaporizers, Gas Laws, and Volatile Agents</i>
July 1, 2021	<i>Medical and Anesthesia Informed Consent: Guidelines, Practicalities and Pitfalls</i>

February 16, 2021 *Neuroanesthesia and Neurophysiology: How Patient Condition and Anesthetics Effect Cerebral Blood Flow, Cerebral Metabolic Rate and Intracranial Pressure*

September 1, 2020 *Vaporizers, Gas Laws, and Volatile Agents*

November 12, 2019 *Obstetric Anesthesia Physiology*

September 10, 2019 *Vaporizers, Gas Laws, and Volatile Agents*

July 1, 2019 *Medical and Anesthesia Informed Consent: Guidelines, Practicalities and Pitfalls*

April 23, 2019 *Neuroanesthesia and Neurophysiology: How Patient Condition and Anesthetics Effect Cerebral Blood Flow, Cerebral Metabolic Rate and Intracranial Pressure*

October 16, 2018 *Vaporizers and Gas Laws*

Lectures to UNC Residents – Non-Anesthesiology

August 22, 2018 *Obstetric Anesthesia Basics to UNC OB/GYN Residents*

Lectures to UNC Hospital Staff

February 18, 2026 *Why We Breathe, The Journey of Oxygen and Carbon Dioxide, to UNC Anesthesiology Anesthesia Technicians*

January 29, 2025 *Big Operating Room Cases: What We Use and Why. To UNC Anesthesiology Technicians*

January 15, 2025 *Our Wonderful Anesthesiology Techs: What They Do and the Value They Bring. To the UNC Department of Anesthesiology Administrative Staff*

December 20, 2023 *Standard Anesthesiology Monitors: How They Work, Why we Use Them, and Are They Working? To UNC Anesthesiology Technicians*

December 6, 2023	<i>Communicating within Anesthesiology Teams: Cases and Equipment</i> , to UNC Anesthesiology Technicians
June 7, 2023	<i>Anesthesiology Monitors and Arterial lines</i> , to UNC Anesthesiology Technicians
August 3, 2022	<i>Neuromuscular Blocking Drugs and Reversal Agents</i> , to UNC Anesthesiology Anesthesia Technicians
April 13, 2022	<i>Why We Breathe, The Journey of Oxygen and Carbon Dioxide</i> , to UNC Anesthesiology Anesthesia Technicians
October 7, 2020	<i>Universal Personal Protective Equipment Updates and Usage, How to Stay Safe in the OR</i> , to UNC Anesthesiology Anesthesia Technicians
<i>UNC Department of Anesthesiology Resident Critical Event Management Simulation Sessions, Faculty Moderator</i>	
March 31, 2026	Malignant Hyperthermia, Pre-Eclampsia, Anaphylaxis (3 hours)
December 2, 2025	Amniotic Fluid Embolus, Cannot Intubate/Cannot Ventilate, High Spinal (3 hours)
September 16, 2025	Transfusion Reaction, Myocardial Infarction versus Pulmonary Embolus (2 hours)
August 5, 2025	Venous Air Embolism, Pre-Eclampsia, Myocardial Infarction versus Pulmonary Embolus (3 hours)
May 27, 2025	Cannot Intubate/Cannot Ventilate, High Spinal, Malignant Hyperthermia (3 hours)
April 1, 2025	Venous Air Embolism, Anaphylaxis, Malignant Hyperthermia (3 hours)
December 3, 2024	Transfusion Reaction, Venous Air Embolism, Local Anesthetic Toxicity (3 hours)
September 17, 2024	Myocardial Infarction versus Pulmonary Embolus, Cannot Intubate/Cannot Ventilate, Amniotic Fluid Embolism (3 hours)

August 13, 2024	High Spinal, Myocardial Infarction versus Pulmonary Embolus, Amniotic Fluid Embolism (3 hours)
May 7, 2024	Pre-Eclampsia, Malignant Hyperthermia, Cannot Intubate/Cannot Ventilate (3 hours)
April 2, 2024	Myocardial Infarction versus Pulmonary Embolus, Pre-Eclampsia, Amniotic Fluid Embolism (3 hours)
February 27, 2024	Venous Air Embolism, Cannot Intubate/Cannot Ventilate Anaphylaxis (3 hours)
November 14, 2023	Cannot Intubate/Cannot Ventilate, Venous Air Embolus, Anaphylaxis (3 hours)
September 19, 2023	High Spinal, Myocardial Infarction versus Pulmonary Embolus Malignant Hyperthermia (3 hours)
May 9, 2023	Venous Air Embolism, Amniotic Fluid Embolism, Transfusion Reaction (3 hours)
February 7, 2023	Myocardial Infarction versus Pulmonary Embolus, Transfusion Reaction, Amniotic Fluid Embolism (3 hours)
December 20, 2022	Cannot Intubate/Cannot Ventilate, Myocardial Infarction versus Pulmonary Embolus, High Spinal (3 hours)
November 15, 2022	Amniotic Fluid Embolism, Transfusion Reaction, Myocardial Infarction versus Pulmonary Embolus, High Spinal (3 hours)
September 13, 2022	Myocardial Ischemia, Malignant Hyperthermia, Preeclampsia (3 hours)
April 12, 2022	Venous Air Embolism, Myocardial Infarction versus Pulmonary Embolus, High Spinal (3 hours)
March 2, 2022	Cannot Intubate/Cannot Ventilate, Myocardial Infarction versus Pulmonary Embolus, Pre-eclampsia (3 hours)
December 21, 2021	Myocardial Ischemia, Malignant Hyperthermia, Local Anesthetic Toxicity (3 hours)

September 7, 2021	Myocardial Ischemia, Malignant Hyperthermia, Transfusion Reaction (3 hours)
May 25, 2021	Malignant Hyperthermia, Preeclampsia, Amniotic Fluid Embolism (3 hours)
March 30, 2021	High Spinal, Cannot Ventilate or Intubate, Intraoperative Anaphylaxis (3 hours)
February 9, 2021	Intraoperative Rhabdomyolysis, Amniotic Fluid Embolism, Intraoperative Anaphylaxis (3 hours)
December 15, 2020	Local Anesthetic Toxicity, Myocardial Infarction versus Pulmonary Embolus, Pre-eclampsia (3 hours)
September 8, 2020	Local Anesthetic Toxicity, Myocardial Infarction versus Pulmonary Embolus, Intraoperative Rhabdomyolysis (3 hours)
February 25, 2020	High Spinal, Intraoperative Anaphylaxis, Transfusion Reaction (3 hours)
January 14, 2020	Cannot Ventilate or Intubate, Amniotic Fluid Embolism, Transfusion Reaction (3 hours)
November 12, 2019	Myocardial Ischemia, Malignant Hyperthermia, Amniotic Fluid Embolism (3 hours)
May 30, 2019	Cannot Ventilate or Intubate, Intraoperative Rhabdomyolysis, Venous Air Embolism (3 hours)
April 30, 2019	Local Anesthetic Toxicity, Malignant Hyperthermia, Transfusion Reaction (3 hours)
March 14, 2019	Intraoperative Anaphylaxis, Local Anesthetic Toxicity, Preeclampsia (3 hours)

UNC Department of Anesthesiology Nursing Education Critical Event Management Simulation Sessions, Faculty Moderator

February 19, 2020	Loss of Airway and PEA in the Gastroenterology Suite. University of North Carolina, Chapel Hill, NC (1 hour)
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UNC Department of Anesthesiology New Resident "Bootcamp" Simulation Sessions, Faculty Moderator

July 15, 2020	Basics of Intraoperative Management (8 hours)
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June 14, 2019 Basics of Intraoperative Management (8 hours)

*NC Department of Anesthesiology Medical Student “Bootcamp” Simulation Sessions,
Faculty Moderator*

April 8, 2025 Fiberoptic Intubation and Bronchoscopy (3 hours)

March 21, 2023 Atrial Fibrillation and Hypoxia (3 hours)

March 20, 2023 Peripheral IV and Arterial Line Insertion (3 hours)

Grand Rounds – University of North Carolina, Department of Anesthesiology

December 10, 2025 *Demystifying External Ventricular Drains.* Presented by Samuel N. Blacker, MD, Ricardo Serrano, MD, and James Williams, MD, PhD

October 29, 2025 *Table Talks Discussion: Communication and Miscommunication in the Workplace: Accidental I Love You’s and Beyond.* Presented by **Samuel N. Blaker, MD**, Skye Margolies PhD and Amy Goetzinger, PhD

February 14, 2024 *Workplace Diversity and Team Dynamics*

October 18, 2023 *NeuroAnesthesia Myths and Dogmas, Part 2: Mannitol versus Hypertonic Saline and Craniotomy Analgesia*

October 5, 2022 *NeuroAnesthesia Myths and Dogmas, Part 1: Mannitol Dosing, Anti-epileptic Medications*

February 9, 2022 *Spine Enhanced Recovery: A Review of the Available Evidence for Analgesia*

September 29, 2021 *Anesthesia Equipment: Recent Events and Why They Occurred*

September 30, 2020 *Spine Enhanced Recovery After Surgery: A Review of the Available Evidence for the Construction of a Pathway.*

July 15, 2020 *A Clinical Approach to Perioperative Brain Health in the Elderly: How to Optimize Care*

May 19, 2019	<i>Military Deployment Anesthesia</i>
January 2, 2019	<i>Anesthetic Considerations for the Elderly Patient</i>

Grand Rounds – Womack Army Medical Center, Anesthesia Department

April 25, 2018	<i>Postoperative Effects of Anesthesia, Neuromuscular Blockade, Monitoring and Reversal: Suggamadex is Coming!</i>
June 21, 2017	<i>Emergence Delirium</i>
October 21, 2015	<i>The Preoperative Clinic: Updates on Preoperative Evaluations (updated)</i>
August 13, 2014	<i>Update in Perioperative Ventilation: What we do Matters</i>
September 21, 2011	<i>The Preoperative Clinic: Update on Preoperative Evaluations</i>

Anesthesiology Faculty Development Lectures- University of North Carolina

February, 27, 2025	<i>Incorporating AI Into Your Efficiency and Time Management</i>
April 4, 2024	<i>The Role of Artificial Intelligence in Medicine</i>
March 23, 2023	<i>Pearls and Pitfalls of Resident Education</i>
November 12, 2020	<i>How to Improve as a Clinical Educator: Educational Concepts from the Society for Education in Anesthesia Workshop.</i>

Visiting Professor/Grand Rounds – Outside University of North Carolina

November 18, 2025	<i>NeuroAnesthesia Myths and Dogmas: Mannitol, Hypertonic Saline, Anti-Epileptics, Analgesia, and EVDs. University of Arkansas, Department of Anesthesiology, Little Rock, AR. Lecture given over Zoom (Invited)</i>
April 17, 2024	<i>NeuroAnesthesia Myths and Dogmas: Mannitol, Hypertonic Saline, Anti-Epileptics, Analgesia, George</i>

Washington University, Department of Anesthesiology, Washington, DC. (Invited)

May 18, 2022

NeuroAnesthesia Myths and Dogmas. Rush University Department of Anesthesiology. Chicago, IL. Lecture given over Zoom (Invited)

September 16, 2019

Perioperative Brain Health in the Elderly. Mayo Clinic Jacksonville Anesthesiology Department, Jacksonville, FL. (Invited)

Speaker at Continuing Medical Education Courses

September 13, 2025

The Management of a Patient with an External Ventricular Drain for Non-Neurologic Surgery. Presented as 1 of 3 panelists at the 2025 Society for Neuroscience in Anesthesiology and Critical Care Annual Meeting. Atlanta, GA (Solicited).

June 21, 2024

The Clinical Application of Perioperative Brain Health Principles. Presented at the 2024 Carolina Refresher Course. Kiawah, SC (Invited)

June 13, 2022

Perioperative Brain Health and the Elderly: Tailoring Anesthetics to Prevent Delirium and Mitigate Cognitive Decline. Presented at the 2022 Carolina Refresher Course. Kiawah, SC (Invited)

June 12, 2022

Myths and Dogmas in NeuroAnesthesia. Presented at the 2022 Carolina Refresher Course. Kiawah, SC (Invited)

Scheduled, Speaker at Continuing Medical Education Courses

June 17, 2026

Spine Analgesia. Scheduled Presentation at the 2026 Carolina Refresher Course. Kiawah, SC (Invited)

June 18, 2026

Perioperative Brain Health. Scheduled Presentation at the 2026 Carolina Refresher Course. Kiawah, SC (Invited)

September 11, 2026

Brain Relaxation Techniques and Controversies. Scheduled as 1 of 3 panelists at the 2026 Society for

Neuroscience in Anesthesiology and Critical Care Annual Meeting. Raleigh, NC (Solicited).

October 18, 2026

Distinguishing Truth from Myth: What Really Works in Enhanced Recovery After Spine Surgery. Scheduled as 1 of 3 panelists at the 2026 American Society of Anesthesiologists Annual Meeting. San Diego, CA (Solicited)

October 19, 2026

Tackling Spines: From Minimally Invasive to Complex Spine Surgery and Everywhere In-Between. Scheduled as the panel Moderator for 3 panelists at the 2026 American Society of Anesthesiologists Annual Meeting. San Diego, CA (Solicited)

Audio Recordings/Podcasts

1. **Blacker, Samuel.** *Dr. Edward Nemergut Interviews Dr. Samuel Blacker.* Anesthesia & Analgesia Article of the Month Podcast, June 2025, <https://journals.lww.com/anesthesia-analgesia/pages/podcastepisodes.aspx?podcastid=3>
2. **Blacker, Samuel.** *The Clinical Application of Perioperative Brain Health.* Audio-Digest Anesthesiology, Volume 67, Issue 1, January 7, 2025
3. **Blacker, Samuel.** *Dr. Shobana Rajan Interviews Dr. Samuel Blacker.* JNA Podcast, hosted by Dr. Shobana Rajan, November 2024, SoundCloud, https://soundcloud.com/user-370631686/jna_podcast_dr_shobana_rajan_interviews_dr_samuel_blacker.
4. **Blacker, Samuel.** *Perioperative Brain Health and the Elderly.* Audio-Digest Anesthesiology, Volume 64, Issue 41, November 7, 2022

Invited Speaker at Non-Continuing Medical Education Courses

March 4, 2023

Working with CRNAs
Combined Duke/UNC 2023 Transition to Practice Seminar, Chapel Hill, NC (Invited)

March 4, 2023

Types of Practices
Combined Duke/UNC 2023 Transition to Practice Seminar, Chapel Hill, NC (Invited)

Journal Club Discussion Leader

- September 15, 2019 Article: Electroencephalography-Guided Anesthetic Administration on Postoperative Delirium Among Older Adults Undergoing Major Surgery: The ENGAGES Randomized Clinical Trial. *JAMA*. 2019;321(5):473-483. Mayo Clinic Jacksonville, Anesthesiology
- August 5, 2019 Article: Education Outcomes in a Duty-Hour Flexibility Trial in Internal Medicine. *New England Journal of Medicine*. 2018;378(16):1494-1508. UNC Academy of Educators Mentored Members, Chapel Hill, NC

Journal Club Faculty Mentor/Moderator

- January 27, 2026 Article: Anesthetic reporting in stroke thrombectomy randomized clinical trials: a systematic review. *J Clin Neurosci*. 2025 Dec 5;144:111785. University of Washington, Neuroanesthesia Journal Club, Seattle, WA, Guest Moderator
- August 19, 2021 Article: Effects of tranexamic acid on death, disability, vascular occlusive events and other morbidities in patients with acute traumatic brain injury (CRASH-3): a randomized, placebo-controlled trial. *Lancet*. 2019 Nov 9;394(10210):1713-1723. UNC Anesthesiology Residents, Chapel Hill, NC, Faculty Mentor

UNC Department of Anesthesiology, Table Talks, Faculty Moderator

- November 8, 2023 Article and Podcast: Racial Diversity and Team Performance: Evidence from the American Offshore Whaling Industry. Baggio, Michele and Cosgel, Metin M. (June 24, 2023)
<https://dx.doi.org/10.2139/ssrn.4398892>.
UNC Anesthesiology Department participants
Chapel Hill, NC
- January 12, 2023 Article: University of Hypocrisy. By Evan Mandery. *Atlantic*, October 2022
UNC Anesthesiology Department participants
Chapel Hill, NC

September 14, 2021

Article: Return the National Parks to the Tribes. By David Treuer. Atlantic, May 2021.
UNC Anesthesiology Department participants
Chapel Hill, NC

Clinical Teaching

February 2019-Present

UNC Anesthesiology, Neuroanesthesia Division
Faculty

June 2018-Present

UNC Anesthesiology, OB Anesthesia Call Faculty

June 2018-Present

UNC Anesthesiology, Generalist Division Faculty

Perioperative teaching of medical students, residents, and student nurse anesthetists in general anesthesia and neurologic anesthesia, with special emphasis on perioperative brain health, neurophysiology, evidence-based medicine versus dogmatic practice, and enhanced recovery after surgery (ERAS) programs for spine surgery and craniotomy.

Other Teaching

November 12, 2025

UNC Anesthesiology Mock Oral Board Faculty Examiner

May 14, 2025

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 6, 2024

UNC Anesthesiology Mock Oral Board Faculty Examiner

October 23, 2024

UNC Anesthesiology Mock Oral Board Faculty Examiner

May 15, 2024

UNC Anesthesiology Mock Oral Board Faculty Examiner

May 8, 2024

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 15, 2023

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 8, 2023

UNC Anesthesiology Mock Oral Board Faculty Examiner

May 10, 2023

UNC Anesthesiology Mock Oral Board Faculty Examiner

April 19, 2023

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 16, 2022

UNC Anesthesiology Mock Oral Board Faculty Examiner

December 1, 2021

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 21, 2021

UNC Anesthesiology Mock Oral Board Faculty Examiner

May 12, 2021

UNC Anesthesiology Mock Oral Board Faculty Examiner

May 5, 2021

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 11, 2020

UNC Anesthesiology Mock Oral Board Faculty Examiner

May 20, 2020

UNC Anesthesiology Mock Oral Board Faculty Examiner

January 8, 2020

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 13, 2019

UNC Anesthesiology Mock Oral Board Faculty Examiner

December 5, 2018

UNC Anesthesiology Mock Oral Board Faculty Examiner

November 21, 2018
November 14, 2018

UNC Anesthesiology Mock Oral Board Faculty Examiner
UNC Anesthesiology Mock Oral Board Faculty Examiner

Mentorship

UNC Department of Anesthesiology Residency – Faculty Mentorship Program

September 2024-June 2025	Mentee: Russell Wnek, MD
September 2023-June 2025	Mentee: Natalie Campbell, MD
September 2022-June 2025	Mentee: Sara Dryden, MD
September 2021-June 2024	Mentee: Steven Eastlack, MD
September 2020-June 2023	Mentee: Amira Choucair, MD
September 2019-June 2022	Mentee: Dylan Hunter, MD

Womack Army Medical Center- Military Rater

August 2014-June 2018	Military Rater for new and junior anesthesiologists, Womack Army Medical Center
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Military raters are the mentor and evaluator for junior officers. I mentored and wrote annual officer evaluation reports, which are used by military promotion boards to determine eligibility for promotion. In my last two years at Womack, I rated 5 military anesthesiologists.

Team Based Quality Improvement Project: Faculty Mentor

August 2025-May 2026	UNC Department of Anesthesiology Team Based Quality Improvement Project and Research Symposium, <i>Methadone for Spine Surgery</i> (Isabella Valente, Anne Bryden, Kenneth Brown)
August 2023-May 2024	UNC Department of Anesthesiology Team Based Quality Improvement Project and Research Symposium, <i>Sharps Bin Utilization</i> (John Odumosu,

Michael Wisniewski *Natalie Campbell, Michael Sumner, Luke McNulty*)

August 2022-May2023

UNC Department of Anesthesiology Team Based Quality Improvement Project and Research Symposium, *Fast Track Post Anesthesia Care Unit Protocol* (Elizabeth Willis, Jennifer Tripi, Adriana Skyles, Nicholas Milller)

August 2021-May 2022

UNC Department of Anesthesiology Team Based Quality Improvement Project and Research Symposium, *Improving Albumin Utilization in the Operating Room* (Shirin Ghanavatian, Craig Grosshuesch, Jennifer Trippi, Zeke Egan)

August 2020-May 2021

UNC Department of Anesthesiology Team Based Quality Improvement Project and Research Symposium, *Improving the Utilization and Stewardship of Sugamadex in the Operating Room* (Yuxiao Qian, Nathan Leone, Shirin Ghanavatian, Phillip Sholes)

August 2019 – May 2020

UNC Department of Anesthesiology Team Based Quality Improvement Project and Research Symposium, *Enhanced Recovery for Spine Surgery* (Vivian Doan, Michael Goldberg, Jordan Swearingen, Dylan Hunter)

Academic Medicine Rotation Projects: Faculty Mentor

December 2023

UNC Department of Anesthesiology, Intern Academic Medicine Rotation Project, *Don't Undermine the Underline: Empowering Informed Decision-Making through Simple Visual Cue Techniques*, Project Monitor to Desby Cheribin, MD

December 2022

UNC Department of Anesthesiology, Intern Academic Medicine Rotation Project, *Request and You Shall Receive! Implementing an Anesthesia Equipment Request Form for Use During Turnovers*, Project Mentor to Bryson Shelton, MD

December 2018	UNC Department of Anesthesiology, Intern Academic Medicine Rotation Project, <i>Post-Operative Patient Satisfaction Quality Improvement</i> , Project Mentor to Kenneth Brown, MD
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Clinician Leadership in Quality and Safety (CLQS): Faculty Mentor

August 2022-May 2023	<i>Fast Track Post Anesthesia Care Unit Protocol</i> , Project Mentor to UNC School of Medicine MSIV Ayham Abdel
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Social and Health Systems: Faculty Mentor

December 2022-May 2023	<i>Preoperative Identification of Chronic Conditions in Patients without a Regular Primary Care Provider</i> , Project Mentor to UNC School of Medicine MSIV Ayham Abdel
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UNC Department of Anesthesiology Morbidity and Mortality Conference

April 28, 2025	Faculty Moderator, 1 case
April 23, 2025	Faculty Moderator, 2 cases
June 25, 2024	Faculty Moderator, 1 case
June 23, 2024	Faculty Moderator, 1 case
March 27, 2023	Faculty Moderator, 1 case
March 22, 2023	Faculty Moderator, 1 case
June 27, 2022	Faculty Moderator, 1 case
June 22, 2022	Faculty Moderator, 2 cases
April 28, 2021	Faculty Moderator, 2 cases
April 26, 2021	Faculty Moderator, 1 case
June 24, 2020	Faculty Moderator, 2 case
June 22, 2020	Faculty Moderator, 1 cases

Professional Service

Service to University of North Carolina Hospital

September 2025-Present	Perioperative Quality Operations Council, Member
May 2025-Present	Anesthesiology representative to the Special Pathogens Response Center for UNC Health Emerging Special Pathogen Treatment Center
April 2021-Present member	UNC Health Innovation Pilot Award Committee
April 2021	Root Cause Analysis-113839, Process Owner
April 2021	UNC Innovation Pilot Award Review Committee, Member
March 2021-July 2022	Medical Staff Executive Committee, at-large member
April 2020	COVID Code Blue Simulation Training Video, member
November 2018-April 2020	Physician lead for transitioning to electronic patient consents for anesthesia and surgery
September 2018-January 2020	UNC Hospital System Anesthesia Consent, Author
May 2020-Present	Improving Anesthesia Utilization with Interventional Radiology, Pulmonology and Other Out of Operating Room Services
October 2018-Present	Spine Surgery Enhanced Recovery After Surgery, Co-Author and Anesthesiology Leader
January 2021-July 2021	Updated Resident and Attending call shift guidelines
April 2020-March 2021	COVID Operating Room Quality Improvement, Leader
March 2020-March 2021	COVID Operating Room Patient Planning Team, member
March 2020-March 2021	COVID Operating Room Transport Policy and Decision Tree, Author

October 2018-March 2021	Colorectal Surgery Enhanced Recovery After Surgery, Co-leader
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Service to the University of North Carolina Anesthesiology Department

September 2021-Present	Anesthesia Technologist Executive Committee, Chair
September 2021-Present	Anesthesiology Capital Equipment Committee, Chair
June 2021-June 2024	Department of Anesthesiology Diversity, Equity and Inclusion Committee, member
November 2019-Present	Academic Performance Assessment Committee, member
November 2019-September 2021	Department of Anesthesiology Finance Committee, member
September 2018-Present	Clinical Competency Committee, member
September 2018-Present	Program Evaluation Committee, member
September 2018-Present	Patient Safety and Quality Improvement Committee, member

Service to Womack Army Medical Center, Fort Bragg

March 2017- June 2018	Research Safety Monitor for a clinical trial studying the effect of stellate ganglion blocks for the treatment of posttraumatic stress disorder. NCT03077919.
November 2015-June 2018	Executive Committee of the Medical Center Staff, member
November 2015-June 2018	Surgical Care Line Committee, member
September 2014-June 2018	Credentials Committee, member
November 2014-June 2017	Risk Management Committee, member
September 2012-August 2013	Anesthesia Department Quality Improvement Leader

Service to Profession

January 2026-present	America Board of Anesthesiology, Maintenance of Certification in Anesthesiology Question Editor. Responsibilities include editing 20-24 items and work closely question authors to provide constructive feedback for maintenance of certification exams
October 2025	America Board of Anesthesiology, Maintenance of Certification in Anesthesiology, Question Committee Meeting. Raleigh North Carolina, October 23-24, 2025
November 2022-Present	Society for Neuroscience in Anesthesiology and Critical Care, Quality and Patient Safety Committee, member
February 2020-December 2025	America Board of Anesthesiology, Maintenance of Certification in Anesthesiology Question Author. Responsibilities include generating 12 novel questions a year covering a variety of topics for maintenance of certification exams.
March 2019- September 2022	Society for Neuroscience in Anesthesiology and Critical Care Clinical Affairs Committee (committee dissolved in September 2022), member
March 2019-May 2021	Society for Neuroscience in Anesthesiology and Critical Care, Spine Enhanced Recovery After Surgery work group, member

Corporate Collaboration

October 2021-October 2022	HealthEco Clinical Steering Committee, Partnership with UNC Health
April 2020-May 2020	Honeywell, Emergency Ventilator Design, Medical Advisory Board, Partnership with University of North Carolina

Other Professional Service: Medical Journal Submission Peer Reviewer

March 2026	Journal of Neurosurgical Anesthesiology, Article: To Evaluate the Time to Retraining for EVD Management and Transport
August 2025	Journal of Neurosurgical Anesthesiology, Article: General Anesthesia versus Conscious Sedation for Endovascular Treatment of Acute Basilar Artery Occlusion: A Secondary Analysis of the ATTENTION Trial
August 2025	Sedation Nurse-Driven versus Anesthesia Team- Driven Conscious Sedation in Outpatient Cerebral Angiography – A Pilot Study
October 2024	Journal of Neurosurgical Anesthesiology, Article: Postoperative Analgesia in Lumbar Discectomy: Morphine vs. Dexamethasone-Soaked Epidural Gelfoam– A Randomized Controlled Trial
November 2023	Journal of Neurosurgical Anesthesiology, Article: Enhanced recovery after surgery for craniotomies: A systematic review and meta- analysis
August-October 2023	Journal of Neurosurgical Anesthesiology, Article: Designing Enhanced Recovery After Surgery (ERAS) Protocols in Neurosurgery: A Narrative Review
November 2022	Journal of Neurosurgical Anesthesiology, Article: Single dose of epidural morphine versus epidural morphine and ketamine for postoperative analgesia following lumbar laminectomy/discectomy – A randomized controlled clinical trial.
June 2022	Cureus Medical Publishing, Article: Anesthetic Considerations for Cesarean Delivery in a Parturient With Severe Gitelman Syndrome
July 2021	Journal of Neurosurgical Anesthesiology, Article: Evaluating the Optimal Timing of Prophylactic Anticoagulation After Major Spine Surgery

Service to Community

August 2023-present	Sandhills Jewish Congregation Board of Directors, Education Liaison
August 2023-present	Volunteer Hebrew School Teacher, Sandhills Jewish Congregation

Professional Memberships

May 2019- Present	Fellow of the American Society of Anesthesiologists (FASA)
February 2019-Present	Society for Neuroscience in Anesthesiology and Critical Care, member
December 2018-Present	North Carolina Society of Anesthesiologists, member
December 2008-Present	American Society of Anesthesiologists, member
December 2008-June 2018	Uniformed Services Society of Anesthesiologists, member

Research Statement:

I transitioned from an anesthesiology career in the military to UNC in June 2018. I arrived at UNC with an open mind and eager to start my academic career. My goal was to start an impactful and meaningful academic career. Soon after I arrived to UNC and I learned there was not a UNC spine-enhanced recovery after surgery (ERAS) pathway. I led the development of an active and sustainable pathway for UNC with the neurosurgery department, which transitioned to a UNC Health system-wide spine ERAS pathway in June 2025. Overall, my research has included systematic reviews, international surveys, and constructing clinical guidelines. My focus is translating literature into evidence-based practice to improve patient outcomes and education. Clinicians need evidence based actionable information and my research focuses on reviewing large amounts of literature to understand where the evidence guides clinical anesthesiology.

I also became involved with the Society for Neuroscience in Anesthesiology and Critical Care (SNACC) and joined the Quality and Patient Safety committee. I volunteered to lead the development of the Society for Neuroscience in Anesthesiology and Critical Care Perioperative Care of Patients Undergoing Major Complex Spinal Instrumentation Surgery. I led this effort as the first author and collaborated with 8 authors from 8 institutions. I continue to work on projects with many of these authors. From writing the guidelines I found I enjoy examining large portions of the literature and focusing on answering questions regarding best practices. Many elements and combinations of techniques have been studied in isolation but not analyzed together as a cohort. Also, many guidelines and best practice statements exist, but understanding their application and implementation was also lacking. I focused my efforts on filling in these knowledge gaps and producing systematic reviews and meta-analyses.

I believe this type of work is vital as I remain a clinical anesthesiologist and every day, I see how comprehensive systematic review and meta-analysis are vital to help clinicians understand and apply the latest data and best practice evidence to patient care. This approach was also reinforced by the editor of the Journal of Neurosurgical Anesthesiology, who made a call at the 2024 SNACC annual meeting for comprehensive reviews, meta-analyses, and guidelines.

I continued to work with many of the same collaborators and expanded to include residents, medical students and non-physician colleagues. My work has been broad, but as I read the literature and actively practice anesthesiology, I identify knowledge gaps with my collaborators, and we explore solutions. My published projects have included exploring spine enhanced recovery implementation, care for emergency craniotomy patients, opioid use in the neuro-intensive care unit, finding optimal timing for anesthesia after stroke, understanding and predicting opioid use in neurocritical care, and understanding craniotomy analgesia practice. My work has been cited 80 times as of March 4, 2026 (www.researchgate.net) and the stroke manuscript was cited in the American Journal of Medicine Practice Changing Updates in Perioperative Medicine Literature Review 2024 (<https://doi.org/10.1016/j.amjmed.2025.08.037>).

I have one comprehensive meta-analysis, just published in the Journal of Neurosurgical Anesthesiology, regarding ventricular drain infection prevention and a second completed and submitted study examining global trends in ventricular drain

infections. My most recent publications explore the lack of anesthesia details in stroke thrombectomy randomized controlled trials and a meta-analysis exploring ketamine use for status epilepticus in the neuro-intensive care unit. Ongoing work includes a meta-analysis of pediatric external ventricular drain infections, exploring risk factors for disposition after spine surgery, and a project examining compliance with intraoperative measurement of intracranial pressure utilizing data from multiple institutions.

Research ideas have also spun off into language learning models in anesthesiology education and clinical application. Originating with my work with the UNC Health Innovation team, I was curious about ChatGPT when it was first released to the public in November 2022. After exploring ChatGPT's capabilities, I lead 2 projects in the spring of 2023 exploring the application of ChatGPT in educational and clinical use. Two separate ChatGPT studies were published from this work. One examined ChatGPT's ability to do as well as humans on the anesthesiology oral board exam and another study evaluating ChatGPT's ability to correctly solve clinical dilemmas in neuroanesthesia. These were the first studies to examine ChatGPT's ability to perform on performance-based and subjective assessments, rather than on objective and multiple-choice exams. My current AI related work is evaluating a free online learning platform (<https://consult-craft.com>) as a study tool for residents studying for the oral board exam and whether AI models can provide adequate guidance. I am working with the platform's creator to evaluate if pure AI learner feedback is equivalent or inferior to human curated learner feedback. We have a recently submitted manuscript concluding that human and AI together provided more robust feedback, as judged by anesthesiology oral board examiners. We plan to expand upon this work beyond this initial pilot study.

My AI work has led to journal podcast interviews and editorials. The Journal of Neurosurgical Anesthesiology and Anesthesia and Analgesia both spoke with me for their respective podcasts regarding my AI articles in each journal. Anesthesia and Analgesia also published an editorial and infographic in the same edition, regarding my manuscript. The oral board AI study was also awarded second place for the journal Anesthesia and Analgesia Editors' Choice Award, scheduled for formal presentation at the International Anesthesia Research Society Annual Meeting in Montreal, Canada in May.

I am also a big believer in mentorship and collaborating with colleagues. I have been fortunate enough to develop strong academic working relationships, and I feel I should pay this forward through collaboration with colleagues at UNC and other institutions, including non-physician colleagues, who are co-authors on several studies I have lead. A UNC medical student and now resident at the University of Washington is the first author for the thrombectomy details study. I take pride including colleagues in projects and building further academic relationships. I also have mentored many resident quality improvement projects which have been presented at national meetings.

Teaching Statement:

I have always enjoyed the educational process. I believe mentoring, teaching, and helping people rise to their potential is a critical part of medicine. I have admired these qualities in others and strive to emulate them. Understanding the changes in education has been central to my approach. My medical school had a very traditional curriculum and teaching methods and thus, my approach to teaching has evolved over time. I have improved through incorporating learner feedback, education literature, the UNC Academy of Educators curriculum, and principles and techniques gained from attending the Society for Education in Anesthesia teaching workshop in January 2020.

Prior to joining UNC, I was actively involved with medical student, student nurse anesthetist, and oral surgery resident education at Womack Army Medical Center, affiliated with the Uniformed Services University (USU). I was the anesthesia clerkship director for the oral surgery residents and was the anesthesia rotation site director for the USU medical students. I thoroughly enjoyed building curriculum, working with learners and being a part of their transition from learner to professional. I wanted to continue as an educator and that is a major reason I came to UNC.

Soon after I arrived at UNC, I was invited to join the residency Clinical Competency Committee and the Performance Evaluation Committee. I was also invited to join the Academy of Educators (AOE) as a mentored member and transitioned to full membership status in the Spring of 2020. I have thoroughly enjoyed participating and contributing to all three. I was honored to be named on the Anesthesiology faculty honor roll in June 2024 and June 2025.

Along with direct clinical education, I have engaged with many ongoing educational initiatives including medical simulation. High fidelity simulation benefits learners as they can think through a problem in a safe environment, therefore when a critical situation occurs with a real patient, there is an experiential reference to enable better decision making. I continue to teach in the medical simulation sessions and have worked to bring the anesthesia techs to the sessions as well to further develop teamwork in crisis management.

I assumed the Anesthesia Support Services Medical Director role in October 2020. I set up a successful lecture series for the continuing education of the anesthesia techs. The lectures are given by faculty anesthesiologists and CRNAs to educate the techs on clinical advances as well as refreshers on perioperative clinical care. Also, the anesthesia technicians are participating in the resident simulation sessions, at the simulation center, with the faculty and residents. By interacting outside the operating room, my hope is everyone gets to know each other on a more personal level, in a safe learning environment, rather than only in the operating room with perceived roles and barriers. Working together will break down barriers and assumptions. Also, these interactions will educate the faculty on who the anesthesia techs are and better understand the barriers and challenges they face. Patient safety will improve as better work relationships are built, which will empower individuals to raise safety concerns and feel comfortable participating as a full member of the patient care team.

I have also enjoyed mentoring residents, which is a key element of my responsibilities in an academic environment and as a physician. I currently mentor three UNC Anesthesiology residents. I enjoy paying forward all the great formal and informal mentorship I received. Figuring out study plans and balancing health, family and wellness with residents is enjoyable for me. I like to utilize my experience to help start

their careers on a good and sustainable path. I learn a lot from the conversations and brainstorming and it is satisfying to have a small part in helping my future peers.

Peer to peer education is also an aspect of medicine that is important. I presented multiple grand round lectures since arriving at UNC to the UNC Department of Anesthesiology. I have also presented grand rounds at four university anesthesiology departments, as an invited visiting professor. I have also presented faculty development lectures at UNC, multiple problem-based learning discussions (PBLD) at the American Society of Anesthesiology annual meeting, annually since 2019, a workshop on External Ventricular Drains at the 2023 SNACC annual meeting, followed by a workshop and panel speaker opportunity at the 2025 SNACC annual meeting, as well as lectures and PBLDs at the 2022 and 2024 Carolina Refresher Course, which is a regional meeting hosted by UNC Anesthesiology. I also served as an American Board of Anesthesiology maintenance of certification in anesthesiology (MOCA) question writer, responsible for developing 10-12 unique clinically relevant questions with critiques annually. In 2026 I began serving as a MOCA Minute question mentor and editor, responsible for 2 mentee writers each writing 10-12 questions annually. Peer to peer educational opportunities are scheduled for the upcoming Carolina Refresher Course lectures in June 2026, as well as serving on speaking panels at the Society for Neuroscience in Anesthesiology and Critical Care Annual meeting in September 2026 and the American Society of Anesthesiologists Annual meeting in October 2026.

Service and Engagement Statement:

Service and leadership have been a large part of my anesthesiology career. I served in the US Army, including a deployment to Afghanistan, prior to joining UNC. During the time I was the anesthesia department chief at Womack Army Medical Center on Fort Liberty (Formerly Ft. Bragg), I was involved with all aspects of the department and hospital management. I understand the personal sacrifices it takes to lead from the front, while remaining clinically engaged. The challenges of leadership and working towards organizational goals is something I thoroughly enjoy.

I came to UNC with a desire to contribute to the mission of UNC and I was invited to join the UNC anesthesiology department Patient Safety and Quality Improvement Committee and elected as a member of the department finance committee. I involved myself early to contribute to department goals. I have lead initiatives such as updating the UNC system's anesthesia consent and later creating clinical pathways for care of COVID patients. Updating the Anesthesia consent involved incorporating input and achieving agreement between the anesthesia departments, quality improvement and legal departments of all the UNC system sites. The perioperative COVID care pathways were developed very quickly, with a multidisciplinary team to ensure patient and provider safety, while adapting to the evolving knowledge of care for COVID-19 patients.

I assumed the role of Medical Director of the Anesthesia Support Services in October 2020. This role involves advocacy for the anesthesia technicians and clinical education. My focus initially is to find small wins and increase the anesthesia tech clinical involvement through continuing education, teamwork and educating faculty

about the anesthesia tech clinical skill set. Through my role as medical director, I was heavily involved with planning, strategy, preparation, moving, and starting our patient care in the new surgical tower. This was a huge effort. I am so proud of the anesthesia tech team for all the work they did to make the tower a success.

One area I have focused to improve, is the work environment and role of the anesthesia support services personnel. The anesthesia technicians are a very diverse team, including socioeconomic diversity, with members who have faced significant personal and societal obstacles to be where they are today. By getting to know the technicians, understand their backgrounds, viewpoints, and daily challenges, I can better understand how to help ensure inclusivity. Many of the team members have worked in other industries, some are working while attending college, nursing and PA school, and others are working as career anesthesia technicians. Balancing everyone's personal and team goals with the department's goals, while maintaining an equitable and inclusive environment is a challenge, but it is one of my main focuses as the medical director. I feel that the anesthesia technicians should be considered full members of the department, as they have a crucial role to play in patient safety and patient care.

Another area that I am passionately involved in is pay equity. As the medical director, I know how the success and quality of our health care is dependent upon our anesthesia technicians, yet they are some of the lowest earners in our system. I have made it a passion of mine to fight for pay equity for this group (and other allied fields). I remind leadership of their concerns, their critical role and emphasize the results when we are short staffed. Improving the working environment and visibility of the technicians will dramatically improve healthcare for our patients.

I also became the NeuroAnesthesia Section Chief in May 2025. My initial goals are to continue to adapt and educate peers on the new UNC system wide Spine Enhanced Recovery pathway. I also worked with neurosurgery on an awake spine surgery pathway and guidance. The first awake spine surgery at UNC was done on October 6, 2025, which was posted on the neurosurgery and anesthesiology social media and newsletters. I also aim to develop a best practice craniotomy pathway for UNC by collaborating with the neurosurgeons, become more engaged with code stroke meetings to improve pathways and communication. Also, we are working to locally support and participate in the SNACC External Ventricular Drain (EVD) safety campaign (<https://snacc.org/external-ventricular-drain-campaign>) and develop departmental pathways and guidance for perioperative care of patients with EVDs. We are presenting the initiative at the UNC Anesthesiology Grand Rounds in December.

Outside of the department of Anesthesiology, I interviewed and was selected as the UNC Health Physician Innovator in January 2021, working with the UNC Health Innovation team. The physician innovator is a member of multiple cross-functional project teams and provides important clinical insight and expertise to coordinate with other clinical and administrative leaders across UNC Health and with external partners. The physician innovator works with the health innovation team and partners to develop novel health models that are affordable, convenient and/or technology enabled, identify areas of innovation, support a culture of innovation, and drive the plan to identify and capture market share in new products/services/businesses. My formal role with the health innovation team ended in June 2023. I continue to collaborate and work with the

team as needed and continue to serve on the Health Innovation Pilot award reviewer panel.

On a national level I am currently a Maintenance of Certification in Anesthesia question editor with the American Board of Anesthesiology. I served as a question writer since 2020. I have also participated in the ASA legislative conferences and became a Fellow of the American Society of Anesthesiologists in 2019. I am an active member of the Society for Neuroscience in Anesthesia and Critical Care Patient Safety and Quality Improvement committee. I was also briefly involved with a medical advisory board, through a partnership with UNC, to Honeywell for an emergency ventilator design in response to the COVID-19 pandemic.