



PERSONAL INFORMATION

Name: Maria Concetta ("Chetta") Lupa, MD

Work Address: N2198 UNC Hospitals, CB#7010, Chapel Hill, North Carolina 27599-7010

Work Phone: (919) 966-5136

EDUCATION

POST GRADUATE

Aug 2007- Aug 2008	University of Pittsburgh Children's Hospital Pittsburgh, PA Department of Anesthesiology Chair: Dr. Jon Williams Director: Dr. Franklyn Cladis	Pediatric Anesthesiology Fellowship
June 2003- June 2007	University of North Carolina Chapel Hill, NC Department of Anesthesiology Chair: Dr. Edward Norfleet Director: Dr. Anthony Passannante	Anesthesiology Residency

GRADUATE

Aug 1999- May 2003	West Virginia University Morgantown, WV	Doctor of Medicine
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UNDERGRADUATE

Aug 1995- May 1999	Canisius College Buffalo, NY	Bachelor of Arts, English
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CERTIFICATIONS/LICENSURE

Anesthesiology Certification	American Board of Anesthesiology CERT #: 43312	valid through 12/31/2028
Pediatric Anesthesiology Certification	American Board of Anesthesiology CERT #: 43312	valid through 12/31/2028
Other Certifications	Pediatric Advanced Cardiac Life Support	valid through 05/2024
Medical Licensure	North Carolina Medical Board 2008-01075	valid through 12/12/2024
DEA	#FL2460258	

NPI #1639388192

TRAINEESHIPS

Society for Education in Anesthesia Teaching Workshop	January 2019
Yellow Belt (Lean Six Sigma)	Oct 2015
PALS Instructor	Oct 2009 - Oct 2011

PROFESSIONAL EXPERIENCE

May 2021- Present Carolina	Vice Chair of Professional Affairs	University of North Department of Anesthesiology
March 2020 – Present	Clinical Professor Anesthesiology and Pediatrics	University of North Carolina
Dec 2014- Mar 2020	Clinical Associate Professor Anesthesiology and Pediatrics	University of North Carolina
July 2013- August 2024	Program Director Pediatric Anesthesiology Fellowship	University of North Carolina Department of Anesthesiology
Sept 2008- Dec 2014	Clinical Assistant Professor Anesthesiology and Pediatrics	University of North Carolina

HONORS

2016	Academy of Educators	University of North Carolina School of Medicine
2015	Best Doctors of America	
2015	Nominated as ABA Oral Board Examiner	
2001	Southern Medical Association Scholarship	West Virginia University School of Medicine

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP

BOOK CHAPTERS:

1. **Lupa, MC** Put some thought into which child, and with which drug, you premedicate. Book chapter in: Marcucci C, Giral BT, Kirsch, JR (eds). *Avoiding Common Anesthesia Errors*. Lippincott Williams & Wilkins, Philadelphia, PA. Oct 2019.

2. **Lupa, M Concetta:** Abdominal Wall Defects and other Abdominal Disorders for the Pediatric Anesthesiologist (Chapter 3) In Pediatric Anesthesiology Review Topics, Book 6: Gastrointestinal and Urologic Surgery. Lockman JL (Ed). Kindle Edition. Naethwyn Press, 2013
3. **Lupa, Maria C,** Ricketts, Karene, Hypercalcemia book chapter in Essence of Anesthesia 3rd edition. Roizen and Fleischer (eds), Elsevier. 2011: p 186-188.
4. **DeCaria MC.** Put some thought into which child, and with which drug, you premedicate. Book chapter in: Catherine Marcucci, MD et al. (eds.). Avoiding Common Anesthesia Errors. Lippincott, Philadelphia, Pennsylvania; 2008: p 517-520.

BOOK CHAPTERS (IN PRESS/SUBMITTED)

REFEREED (PEER – REVIEWED) PUBLISHED PRODUCTS OF SCHOLARSHIP:

Research

1. Eakes, A, Purcell, L, Burkbauer, L, McCauley, C, Mangat, S, **Lupa, C,** Akinkuoto A, McLean S, Phillips, M. The Effect of an Enhanced Recovery Protocol on Pediatric Colorectal Surgical Patient Outcomes at a Single Institution. The American Surgeon. Aug 2023; 89 (8); 3438-3443
2. DiGuisto M, **Lupa MC,** Corridore M, Sivak E, Lockman J. Impact of the COVID-19 pandemic on the 2020 pediatric anesthesiology fellowship application cycle: A survey of program directors. Paediatr Anaesth. 2022 May; 32 (3): 471-478
3. Marulanda K, Purcell L, Strassle P, McCauley C, Mangat S, Chaumont N, Sadiq T, McNaull P, **Lupa MC,** Hayes A, Phillips M. A Comparison of Adult and Pediatric Enhanced Recovery after Surgery Pathways.: A Move for Standardization Journal of Surgical Research. (2022) Jan; 269:241-248
4. Specht, B, Buse C, Phelps J, Phillips M, Chiavacci S, Harrell L, Nelson J, Poulos K, Li Qi, Liu Y, **Lupa MC.** Virtual Reality after Surgery- A Method to Decrease Pain After Surgery in Pediatric Patients. American Surgeon (2021) Jul 17 online ahead of print
5. DiGiusto M, **Lupa MC,** Corridore M. Sivak EL, Lockman JL. The Impact of the COVID-19 Pandemic on the 2020 Pediatric Anesthesiology Fellowship Application Cycle: A Survey of Applicants. Paediatric Anesthesia. 2021 Sep; 31(9): 968-976
6. Black M, **Lupa MC,** Lemley L, Dreesen E, Deaton A, Wardrop R. Choosing Wisely: Things We Do for No Reason: NPO After Midnight. Journal of Hospital Medicine (2021 June);16(6):368-370.
7. Phillips MR, Purcell L, Marulanda K, Egberg M, Mangat S, McCauley C, Chaumont N, Sadiq T, **Lupa C,** McNaull P, McLean S, Hayes-Jordan A. An Enhanced Recovery after Surgery Pathway in Pediatric Colorectal Surgery Improves Patient Outcomes. Journal of Pediatric Surgery. (2021) 56(1):115-120
8. Phillips, MR, Adamson, WT, McLean, SE, S, Hance, L, **Lupa, MC,** Pittenger, SL, Dave P, McNaull P. Implementation of a pediatric enhanced recovery pathway decreases opioid utilization and shortens time to full feeding. The Journal of Pediatric Surgery (2020) 55:101-105.
9. Phelps J, Russell A, **Lupa MC,** McNaull P, Pittenger S, Ricketts K, Ditto J, Bortsov AV. High dose dexmedetomidine for noninvasive pediatric procedural sedation and discharge readiness. Pediatric Anesthesia (2015) 25:877-882.
10. Tomecka, M, Bortsov, A, Miller, N, Solano, N, Narron, J, McNaull, P, Ricketts, K, **Lupa, C,** McLean, S. Substantial postoperative pain is common among children undergoing laparoscopic appendectomy. Pediatric Anesthesia (2012) 22: 130–135.

11. Tuchman, J, **Lupa, MC**, Jooste, E. Emergency airway management of trachea-innominate fistulas in the pediatric population. Can J Anesth (2010); 57:865-867.

Editorials/Letters

1. Cladis F, Lockman J, **Lupa MC**, Chatterjee D, Lim D, Hernandez M, Yanofsky S, Waldrop W. Pediatric Anesthesiology Fellowship Positions: Is There a Mismatch? Anes and Analg, 129 (2019): 1784-1786.

Published Abstracts:

1. Spangler, H; **Lupa C**, Valley, R; Alby, K; Chatrath, M; Veneracion, M. Contamination Rates Using Sheathed Versus Unsheathed Syringe Plungers. Abstract published at Hospital Medicine 2020, Virtual Competition. Abstract 197 Journal of Hospital Medicine. <https://shmabstracts.org/abstract/contamination-rates-using-sheathed-versus-unsheathed-syringe-plungers/>. April 18th 2023

REFEREED (PEER- REVIEWED) PAPERS/ARTICLES/ABSTRACTS: IN PRESS / SUBMITTED

- 1.Lim D, Corridore M, **Lupa MC**. The Impact of Current Pediatric Anesthesiology Fellows Shortfall on Freestanding Children's Hospitals and Practices. Sem in Ped Surg. Submitted 2024 Aug: 10 pages.

INVITED BUT NOT PEER-REVIEWED PRODUCTS OF SCHOLARSHIP:

1. Sanford E, Lockman J, **Lupa M**, Schwartz AJ. Pediatric Anesthesiology and Children Who Die In: Pediatric Anesthesia Article of the day (online: <https://ronlitman.substack.com/p/pediatric-anesthesiology-and-children>) April 30, 2024 (Invited)
2. Margolis R, Vinson A, **Lupa MC**, Black S. The Weaponization of Wellness In: Pediatric Anesthesia Article of the day (online: <https://ronlitman.substack.com/p/the-weaponization-of-wellness>) Mar 19, 2024 (Invited)
3. Yaster M, **Lupa MC**, Veyckemans F. Pediatric Anesthesia in Europe: Variations in Uniformity in: Pediatric Anesthesia Article of the Day https://ronlitman.substack.com/p/pediatric-anesthesia-in-europe-variations?utm_source=%2Fsearch%2Feurope&utm_medium=reader2) Mar 11, 2024 (invited)
4. **Lupa MC**, Corridore M. Pediatric Anesthesia Fellowship (mis)Match. Pediatric Anesthesia Article of the Day. https://open.substack.com/pub/ronlitman/p/pediatric-anesthesia-fellowship-mismatch?r=yw6cw&utm_campaign=post&utm_medium=email Dec 18 2023. (invited)
5. Yaster M, Lockman J, Ambardekar A, **Lupa MC**, Nadkarni A. Pediatric Anesthesia Fellows: An Endangered Species? in: Pediatric Anesthesia Article of the Day (https://ronlitman.substack.com/p/pediatric-anesthesiology-fellows?utm_source=%2Fsearch%2Fendangered&utm_medium=reader2) Jan 4, 2023. (invited)
6. **Lupa MC**, Loveland-Baptist L, Lim D, Lau J, Waldrop B, Cladis F, Lockman J. Update from the Pediatric Anesthesiology Program Directors' Association- Summer 2020 Society of Pediatric Anesthesia Newsletter. Vol 33: Number3 <https://www2.pedsanesthesia.org/newsletters/2020summer/papda%20update.html> (invited)

PRODUCTS OF INTERDISCIPLINARY SCHOLARSHIP

1. Low A, Phillips M. **Lupa MC** Interdisciplinary Journal Club with Pediatric Surgery: Regional anesthesia in pediatric abdominal procedures. Given at: UNC Chapel Hill. Dec 17, 2019

2. **Lupa MC**, Phillips M. Interdisciplinary Morbidity and Mortality Conference Postoperative Urinary Retention Given at: UNC Chapel Hill. October 11, 2019

DIGITAL AND OTHER NOVEL FORMS OF SCHOLARSHIP

1. **Lupa, MC**, Ambardekar, A Open Anesthesia Podcast: OA-SPA Ask the Experts.
<https://openanesthesia.libsyn.com/oa-spa-ask-the-expert-february-2024> Feb 5, 2024 (invited)

REFEREED UNPUBLISHED ORAL PRESENTATIONS/ABSTRACTS

Posters:

1. Mishra S, **Lupa MC**, King A, Wester T. Bilateral Quadratus Lumborum Peripheral Nerve Catheter for Nephrectomy in Patient with Spina Bifida . Given at: Society for Pediatric Anesthesia Annual Meeting, 4/13/2024, Anaheim, CA (Solicited)
2. Power B, Specht B, Molnar J, DaSilva P, **Lupa MC**. "That's why we look"- Delayed Presentation of a TEF. Given at: Society for Pediatric Anesthesia Annual Meeting, 4/13/2024, Anaheim, CA (Solicited)
3. Goetzinger A, **Lupa C**, Jowza M. Prevalence and Psychosocial Correlates of Chronic Pain in Adolescence. International Symposium on Pediatric Pain 2023. Halifax, Nova Scotia (October 2023).
4. Kopenitz, J, Hood, C, McKenzie, C, **Lupa MC**. EXIT procedure for fetal neck teratoma with airway compromise: a medically challenging case Given at: Society for Pediatric Anesthesia Annual Meeting. 4/1/2023, Austin, TX (Solicited)
5. Keegan, T, Egan, E, **Lupa MC**. When an intraoperative ETCO₂ of 117mmHg in a Malignant Hyperthermia susceptible patient is not Malignant Hyperthermia. Given at: Society for Pediatric Anesthesia Annual Meeting. 4/1/2023, Austin, TX (Solicited)
6. Purcell, LN, Marulanda, K, Mangat, S, McCauley, C, Chaumont, N, Sadiq, T, **Lupa, C**, McNaull, P, McLean, SE, Phillips, MR. Enhanced Recovery After Surgery Pathways in Pediatric Colorectal Surgery Improves Patient Outcomes. American Pediatric Surgical Association Annual Meeting, 5/19/2020, Virtual Meeting (Solicited)
7. Specht B, Buse C, Phelps J, **Lupa MC** Virtual Reality After Surgery (VRAS): A Qualitative Analysis . Given at: Society for Pediatric Anesthesia Annual Meeting. 2/29/20 Nassau, Bahamas. (Solicited)
8. Specht B, Phelps J, Buse C, **Lupa MC** Virtual Reality After Surgery (VRAS)- A Method to Decrease Pain after Surgery in Pediatric Patients Given at: Society for Pediatric Anesthesia Annual Meeting. 2/29/20 Nassau, Bahamas. (Solicited)
9. Specht B, Phelps J, Buse C, **Lupa MC** Virtual Reality After Surgery (VRAS)- A Method to Decrease Pain after Surgery in Pediatric Patients Given at: Society for Pediatric Pain Management Annual Meeting. 2/27/20 Nassau, Bahamas. (Solicited)
10. Specht B, Buse C, Phelps J, **Lupa MC** Virtual Reality After Surgery (VRAS): A Qualitative Analysis . Given at: Society for Pediatric Pain Management Annual Meeting. 2/27/20 Nassau, Bahamas. (Solicited)
11. Marulanda, K, Purcell, LN, Strassle, PD, Koonce, R, Mangat, S, McCauley, C, Sadiq, TS, Chaumont, N, McNaull, P, **Lupa, C**, Phillips, MR. Enhanced Recovery After Surgery Pathways Improve Outcomes in Pediatric Colorectal Surgery. Academic Surgical Congress, 2/4/2020, Orlando, FL (Solicited)
12. Dave P, Hall S, **Lupa MC** Thinking outside of the Mouth: A Novel Approach to One-Sided Lung Ventilation through Tracheostomy. Given at: Society for Pediatric Anesthesiology Annual Meeting. 3/16/19, Houston, TX (Solicited)

13. Juston J, Lane J, **Lupa MC**. Introducing a Pain Curriculum into a Pediatric Residency: Chipping away at the Opioid Crisis through Education. Given at: Society for Pediatric Anesthesiology Annual Meeting. 3/16/19. Houston, TX (Solicited)
14. Maves G, **Lupa MC**, Ross E. Creating an Outpatient: A Multimodal Approach to Opiate Wean in Complex Pediatric Cancer Pain. Given at: Society for Pediatric Anesthesiology Annual Meeting. 3/24/2018. Phoenix, AZ (Solicited)
15. Maves,G, Pittenger S, McNaull P, Hance L, **Lupa MC**, Ross E, Fox M, Waller E, Adamson W. Introduction of a Pediatric Enhanced Recovery After Surgery Pathway Leads to Decreased Perioperative Opiate Use. Given at: American Society for Enhanced Recovery Meeting. 3/15/2018. Phoenix, AZ (Solicited)
16. Blasius K, Dingh D, Baboolal H, Smith M, Chen F, Isaak R, McDaniel M, Gurnaney H, Joyner B, Hobbs G, **Lupa C**. Professionalism and Communication Assessment for Milestones in Pediatric Anesthesia: Thinking outside the Box. Given at: Society for Pediatric Anesthesiology Annual Meeting. 3/5/2017, Austin, TX (Solicited)
17. Maves G, Powell K, Waller E, Mathew A, Adamson W, **Lupa MC**, Pittenger S. Implementation of an Enhanced Recovery Pathway for Children Undergoing Major Bowel Surgery. Given at: Society for Pediatric Anesthesiology Annual Meeting. 3/4/2017. Austin, TX (Solicited)
18. Powell K, Specht B, **Lupa MC** Perioperative Epidural Abscess after Epidural Anesthesia: Should preoperative Bacterial Skin Colonization Influence Placement? Given at: Society for Pediatric Anesthesiology Annual Meeting. 3/4/2017. Austin, TX (Solicited)
19. Specht B, Powell K, **Lupa MC** Goal Directed Fluid Therapy during Hemispherotomy for an infant with Refractory Seizures. Given at: Society for Pediatric Anesthesiology Annual Meeting. 3/4/2017. Austin, TX (Solicited)
20. Smith M, Singh D, Baboolal H, Blasius K, Chen F, Hobbs G, Isaak R, Joyner B, **Lupa MC**, McDaniel M. Implementation of an advanced level milestone assessment program utilizing high fidelity simulation. Scientific abstract. International Meeting for Simulation in Healthcare. 1/2017 Orlando, FL (Solicited)
21. Conrad N, Ross E, **Lupa MC**. Dexmedetomidine is associated with more postoperative respiratory events and prolonged recovery time in pediatric patients undergoing adenotonsillectomy. American Society of Anesthesiologists Annual Meeting, 10/25/2016 Chicago, IL (Solicited)
22. Maves G, Powell K, Waller E, Mathew A, **Lupa MC**, Pittenger S. Enhanced Recovery After Surgery – Implementation in a Pediatric Population for Inflammatory Bowel Disease. Given at: University of North Carolina Anesthesia Resident Symposium. 4/23/2016, Chapel Hill, NC, (Solicited)
23. Shah G, Qadri Y, **Lupa MC**. Peripheral nerve blocks in a child for Skin Grafting: Playing with Fire? Given at: International Anesthesia Research Society, 3/22/2015, Honolulu, HI (Solicited)
24. Reding KB, **Lupa C**. Ondansetron for Post Burn Pruritus. Given at: Society for Pediatric Anesthesia Meeting, 03/14/2015 Phoenix, AZ. (Solicited)
25. Malinzak E, **Lupa C**. Airway, Bleeding, and Fever: Anesthetic Challenges During Post-Palatoplasty Hemorrhage. Given at: American Society of Anesthesiology Annual Meeting, 10/11/2014, New Orleans, LA (Solicited)
26. Ditto J, **Lupa, MC**, et al. Retrospective chart review evaluating the effectiveness of intranasal dexmedetomidine and midazolam for moderate sedations in appropriate pediatric patients presenting for non-painful diagnostic procedures. Given at: Society for Pediatric Anesthesia Annual Meeting, 03/08/2014, Ft. Lauderdale, FL (Solicited)
27. Sumrow B, Blasius K, **Lupa MC**, Congenital High Airway Obstruction Syndrome (CHAOS): Peripartum Planning, Airway Management, and Resuscitative Measures. Given at: Society for Pediatric Anesthesia Annual Meeting. 3/15/2013, Las Vegas, NV (Solicited)

28. **Lupa MC**, Tuchman J, Jooste E. A Proposed algorithm for the emergency management of tracheo-innominate fistula in the pediatric population Given at: Society for Pediatric Anesthesia Annual Meeting, 10/17/2008, San Diego, CA (Solicited).

Problem Based Learning Discussions:

1. **Lupa, MC** (PBLD) The Impaired Physician Given at SPEAR Transition to Practice Bootcamp, Nashville, TN 6/23/2023 (Invited)
2. **Lupa, MC.** (PBLD) The Impaired Physician Given at: SPEAR Transition to Practice Bootcamp, Nashville, TN 5/23/2022 (Invited)
3. **Lupa, MC**, Ricketts, K. (PBLD) The ABCs of Craniosynostosis Repair (A, Airway; B, Bleeding; C, Cardiopulmonary Arrest) Given at: Society for Pediatric Anesthesia Annual Meeting. Tampa, FL, 2/26/2012 (Invited)

Workshops:

1. **Lupa MC**, Dalton A, Moeschler S, Bottiger B. Experience from COVID – Virtual Interviews and Educational Activities Given at: Society of Academic Associations of Anesthesia and Perioperative Medicine Annual Meeting, (Virtual), 11/6/2020 (Invited)
2. **Lupa MC**, Przkora R. (Workshop) Teaching the Business of Medicine and Practice Management. Given at: Society of Academic Associations of Anesthesia and Perioperative Medicine Annual Meeting, Chicago, IL. 11/8/2019. (Invited)
3. Long T, **Lupa MC**, Thottathil P, Peterson A, Bannister C. (Workshop) Seeking Competency In Professionalism: Avoiding Pitfalls, Coaching to Strengths, Enriching Careers. Given at: Society for Pediatric Anesthesia Annual Meeting, Houston, TX. 3/15/19 (Invited).

Webinars:

1. Cladis F, Lalwani K, Lau J, Lockman J, Loveland-Baptist L, **Lupa C**, Engorn B. Applying to a Pediatric Anesthesia Fellowship. SPA Pediatric Anesthesia Trainee Special Interest Group Webinar Series. 1/19/2019 (Invited)

DIGITAL AND OTHER NOVEL FORMS OF SCHOLARSHIP

Pediatric Anesthesiology Fellowship Resources

1. **Lupa MC**. "Impaired Physician" Southeast Pediatric Anesthesia Region Fellows Transition to Practice Series. Unpublished Manuscript, University of North Carolina, Chapel Hill, NC (2021)
2. **Lupa MC**, Barnett A, Waller E, McDaniel M (May 2021) "Tricky Situation: Delaying a Case- Unhappy Mom, Passive Aggressive Surgeon" Southeast Pediatric Anesthesia Region Fellows Transition to Practice Series. https://www.youtube.com/watch?v=4i5dc-l_iFU
3. McDaniel M, **Lupa MC**. (2019). Pediatric Anesthesia Fellowship Simulation Curriculum: *Professionalism- Substance abuse recognition*. Unpublished Manuscript, University of North Carolina, Chapel Hill, NC
4. McDaniel M, **Lupa MC** (2019) Pediatric Anesthesia Fellowship Simulation Curriculum: *Feedback after a trainee medical error*. Unpublished Manuscript, University of North Carolina, Chapel Hill, NC

Consortium of Anesthesiology Patient Safety and Experiential Learning (CAPSEL) Residency Critical Event Management (CEM) Simulation Scenarios:

1. Kyle R, Isaak R, **Lupa MC**, Kumar P, Stiegler M, & Kolarczyk L. (2014) Can't Intubate/Can't Ventilate (CICV). University of North Carolina, Chapel Hill, NC.
2. **Lupa MC**, Kumar P., Bass C., Stiegler M., Isaak R., & Kolarczyk L. (2014). Pediatric Anaphylaxis. University of North Carolina, Chapel Hill, NC.
3. Barrick B., Isaak R., **Lupa MC**, Kyle R, Stiegler M., & Kolarczyk L. (2014). Machine and Equipment Failures. University of North Carolina, Chapel Hill, NC.

OTHER PRODUCTS OF SCHOLARSHIP

Newsletters

1. Phillips M, Marulanda K, **Lupa MC**. Enhanced Recovery in Surgery: How do we make it stick? ASER Alert. Summer 2019 Vol 3, Iss 2: 5-6

Audio-Recordings

1. **Lupa MC** Audio-Digest Anesthesiology Volume 62, Issue 33 "Preoperative Anxiety in Pediatric Anesthesia: How to improve the patient experience" 9/7/2020
2. **Lupa MC**. Audio- Digest Anesthesiology Volume 56, Issue 48 "Stressful Encounters with Pediatric Patients" (from 27th Annual Carolina Refresher Lectures: Update in Anesthesiology, Critical Care, and Pain Medicine, 2014)
3. **Lupa, MC**. Audio-Digest Anesthesiology Board Review 2013-2014. "Neonatal Resuscitation and Pediatric Advanced Life Support"
4. **Lupa, MC**. Audio- Digest Anesthesiology Volume 53, Issue 18 "Pain Management" (from 24th Annual Carolina Refresher Lectures: Care of the Surgical Patient, 2011).

TEACHING ACTIVITIES

Course Director:

2021- present

Pediatric Anesthesia Program Directors Association (PAPDA) Journal Club
Director: Initiating National Journal Club events through the Pediatric Anesthesia Program Director Association

- Moderator/Host - November 17, 2021 – National Pediatric Anesthesia Program Director Journal Club: Discussion of article (PMID: 29342008) On the R2C2 Model in Residency Education
- Moderator/Host- January 12, 2021 - National Pediatric Anesthesia Program Director Journal Club: Discussion of article (PMID: 32925341) with Dr. Nafiu (first author) on Diversity in Pediatric Anesthesiology Fellowships
- Moderator/Host - May 4, 2021 - National Pediatric Anesthesia Program Director and Pediatric Anesthesia Fellow Journal Club: Discussion of article (PMID: 33341983) with Dr. Shih on the impact of the COVID-10 pandemic on the education and wellness of US Pediatric Anesthesia Fellows

2015-present

UNC Pediatric Anesthesia Fellowship Journal Club Director

Director and faculty advisor to pediatric anesthesia fellows to coordinate meaningful journal club discussions among the pediatric anesthesia division.

- June 19, 2023 - Jason Kopenitz, DO- Emergence Agitation; Lumbar Plexus Blocks
- December 6, 2022- Michael Greenberg, MD - Use of Intraoperative TXA for craniosternosis surgery in pediatrics
- May 2, 2022 - Jennifer Soares, MD - Use of Ketorolac in Children
- March 23, 2022 - Robin Leopold, MD Environmental Impact of Anesthesia and Low Flow Sevoflurane
- May 17, 2021- Marley Lawrence, MD - Preoperative URIs in Children
- March 22, 2021 - Joel Barton, MD - Video Laryngoscopy; Oncology and Anesthesia
- December 17, 2019 – Interdisciplinary Journal Club with Pediatric Anesthesia and Pediatric Surgery: Aaron Low, MD and Michael Phillips, MD (Peds Surgery)- Rectus Sheath Blocks
- September 19, 2019 – Norbert Rios, MD and Mary Terrell, MD (NICU Fellow)- Cuffed vs Uncuffed Endotracheal Tubes in neonates.
- June 4, 2018 – Greg Maves, MD – Tonsillectomy, Awake vs Deep Extubation.
- April 12, 2018 – Courtney Garbee, MD – Persistent Pain following Common Outpatient Procedures.
- January 11, 2018 – Vincent Kopp, MD (hosted visiting professor)- Oxygen Toxicity in Pediatric Anesthesia.
- January 9, 2018 – Barbara Nzegwu, MD – TAP Block in Pediatric Anesthesia.
- September 19, 2017- Sara Hall, MD -Intraperitoneal Local Anesthetic for Laparoscopic Surgery
- Feb 13, 2017 – Seth Hanley, MD – Cranial Vault Outcomes.
- June 6, 2016 – Paul Halweg, MD - GAS study
- Feb 23, 2016 – Eva Waller, MD – IV medication delivery in Neonates
- November 2, 2015 – Nicole Conrad, MD – Neurotoxicity
- Jan 5, 2015 – Deanna Couser, MD – Pediatric Regional Anesthesia.

2010-2014

UNC Department of Anesthesiology Annual Oral Board Review Course
Director/developer of oral board course for CA-3 Residents, fellows and some attendings in anesthesiology to help prepare them for oral boards. Runs yearly for 8-10 weeks in late Winter/early Spring

Course Co-Director:

10/2015 – Present

Pediatric Anesthesia Fellowship Objective Standard Clinical Examination (OSCE) series
Fall and Spring Curriculum, Utilizing High and Low-Fidelity Simulation for ACGME Milestone Assessment, (Created with a multi-disciplinary/multi-interdisciplinary team with scenarios for evaluation to give objective data to the Clinical Competency Committee (CCC) in evaluation of challenging to assess milestones), Dept of Anesthesiology, UNC Chapel Hill

Southeast Pediatric Anesthesia Region (SPEAR) Fellows Bootcamp

Co-director and instructor for a multi-institutional bootcamp hosting a variety of pediatric anesthesia fellowship programs and fellows. Developed and implemented a

variety of scenarios appropriate for fellow level simulation of pediatric emergencies with high-fidelity simulation. Debriefing sessions incorporated throughout the day. Usual participants are pediatric anesthesia fellows from UNC, DUKE, and sometimes Vanderbilt, CHOP (Children's Hospital of Philadelphia), University of Alabama (repeating event). This event continues to expand its participants in the Southeast Region.

- 5/31/2024: SPEAR Transition to Practice Bootcamp; Co-Hosts Dr. Cole Dooley (UF Gainesville), Dr. David Roberts (Vanderbilt), Dr. Concetta Lupa (UNC): 3 programs, 6 fellows. Hosted at UF Gainesville, FL
- 9/9/2023: SPEAR Bootcamp- Co-Hosts with UNC Faculty (Sisk, Suchar, Wester, Lupa, Blasius, Park), Dr. Jenna Sobey (Vanderbilt), Dr. Ben Roberts (UAB) and Dr. Lydia Jorge-Reynolds (U Miami). 5 programs, 7 fellows
- 6/23/2023: Transition to practice Bootcamp Co-Hosts Dr. Concetta Lupa (UNC), Dr. Jenna Sobey (Vanderbilt), Dr. Tracy Wester (UNC), Dr. Cole Dooley (University of Florida), and Dr. Michael Kunts (Vanderbilt)- 3 programs, 7 fellows
- 5/23/2022 Transition to practice Bootcamp Co-Hosts Dr. Concetta Lupa (UNC), Dr. Jenna Sobey (Vanderbilt), Dr. Ben Roberts (UAB), Dr. Cole Dooley (UF Gainesville) and Dr. John Adams (UMiss) - 5 programs, 9 fellows, hosted at Vanderbilt University, Nashville, TN
- 11/29/2021: UNC only due to pandemic restrictions- co-taught with Dr. Matthew McDaniel, Dr. Adam Suchar (UNC), Dr. Joseph Sisk (UNC) Dr. Annika Barnett (UNC), Dr. Kimberly Blasius (Atrium, Charlotte)
- 5/8/2021 Invited: Virtual Transition to practice Bootcamp: Co-Hosts Dr. Concetta Lupa (UNC), Dr. Jenna Sobey (Vanderbilt), Dr. John Eck (Duke) and Dr. Jack Crawford (UAB)
- 8/23/2019 Invited Visiting Professor Co-Host to Dr. Jenna Sobey from Vanderbilt University and Dr. John Eck from Duke University (UNC Chapel Hill)
- 4/6/2018 Invited Visiting Professor Co-Host to Dr Doyle Lim from Nemours Children's and Dr John Eck from Duke University (UNC Chapel Hill)
- 2/17/2017, Invited Visiting Professor Co-Host to Dr Harshad Gurnaney from CHOP and Dr John Eck from Duke University (UNC Chapel Hill)
- 8/24/2016, Invited Visiting Professor Co-Host to Dr. John Eck from Duke University 1/9/2015, Invited Visiting Professor Co-Host to Dr Devika Singh from the Children's Hospital of Philadelphia (CHOP) (UNC Chapel Hill)

LECTURES

LECTURES TO MEDICAL STUDENTS:

University of North Carolina School of Medicine

4/24/2018	"Pediatric Anesthesia" 401 Anesthesia Lecture (UNC SOM)
2/14/2018	"Pediatric Anesthesia" 401 Anesthesia Lecture (UNC SOM)

8/30/2017	"When Breath Becomes Air" Interprofessional Education Steering Committee of Health Affairs Summer Reading Program (UNC SOM)
7/16/2013	"Anesthesia Basics and Airway Management" 401 Anesthesia Lecture (UNC SOM)
7/21/2010	"Anesthesia Basics and Airway Management" 401 Anesthesia Lecture (UNC SOM)

LECTURES TO RESIDENTS:
Department of Anesthesiology, University of North Carolina

1/19/2021	"Neonatal Emergencies" CA2-3 Lecture Series
8/9/2018	"Neuromuscular blockade: Physiology, Pharmacology, Monitoring, and Equipment" CA-1 Lecture Series
7/28/2017	"Neuromuscular blockade and reversal" CA-1 Lecture Series
9/13/2016	"Newborn emergencies" CA2-3 Lecture Series
8/12/2016	"Neuromuscular blockade- physiology, pharmacology and clinical application" CA-1 Lecture Series
8/17/2015	"Myocardial Infarction vs Pulmonary Embolism." Simulation: High fidelity simulation of a clinical emergency of cardiac arrest vs pulmonary embolism, differential diagnosis, management, and crisis resource management.
8/17/2015	"Anaphylaxis." Simulation: High fidelity of a clinical emergency of anaphylaxis in a pediatric trauma patient and accompanying debriefing focused on differential diagnosis and management of bronchospasm and hypotension
8/17/2015	"Amniotic Fluid Embolism" Simulation. High fidelity simulation of a clinical emergency, and accompanying debriefing focused on the management of obstetric emergencies and crisis resource management skills
6/22/2015	"Anaphylaxis." Simulation: High fidelity of a clinical emergency of anaphylaxis in a pediatric trauma patient and accompanying debriefing focused on differential diagnosis and management of bronchospasm and hypotension
6/22/2015	"Local Anesthetic Toxicity Syndrome." Simulation: High fidelity simulation of a clinical emergency of local anesthetic toxicity and accompanying debriefing focused on the management and differential diagnosis of such.

6/22/2015	<p>"Can't Intubate/Can't ventilate" Simulation: High fidelity simulation of a clinical emergency of a difficult ventilation and intubation focusing on cricothyroidotomy and crisis resource management skills.</p>
5/19/2015	<p>"Pediatric Anesthesia Preoperative, Intraoperative, and Postoperative Planning" CA2-3 Lecture series</p>
3/30/2015	<p>"Myocardial Infarction vs Pulmonary Embolism" Simulation. High fidelity simulation of a clinical emergency of cardiac arrest vs pulmonary embolism, differential diagnosis, management, and crisis resource management</p>
3/30/2015	<p>"Transfusion reaction" Simulation. High fidelity simulation of a clinical emergency of rhabdomyolysis with accompanying debriefing focused on the management of blood transfusion reactions and differential diagnosis thereof</p>
3/30/2015	<p>"Venous Air Embolism" Simulation. High fidelity simulation of a clinical neuroanesthesia emergency with accompanying debriefing focused on management and recognition of venous air embolism and utilization of crisis resource management skills</p>
12/1/2014	<p>"Amniotic Fluid Embolism" Simulation. High fidelity simulation of a clinical emergency, and accompanying debriefing focused on the management of obstetric emergencies and crisis resource management skills</p>
12/1/2014	<p>"Supraventricular Tachycardia" Simulation. High fidelity simulation of a clinical emergency of SVT, and accompanying debriefing focused on the management of ACLS and crisis resource management skills.</p>
12/1/2014	<p>"Fat Embolism" Simulation. High fidelity simulation of a clinical trauma emergency, and accompanying debriefing focused on the management of decreased oxygenation in the setting of trauma, as well as crisis resource management skills.</p>
10/27/2014	<p>"Preeclampsia" Simulation. High fidelity simulation of a clinical emergency, and accompanying debriefing focused obstetric anesthesia emergencies and crisis resource management skills, as well as communication skills and differential diagnosis</p>
10/27/2014	<p>"Massive Transfusion" Simulation. High fidelity simulation of a clinical trauma emergency, and accompanying debriefing focused on the management of blood loss and the associated management thereof, as well as crisis resource management skills in the setting of a transfusion reaction</p>
10/27/2014	<p>"Fat Embolism"</p>

Simulation. High fidelity simulation of a clinical trauma emergency, and accompanying debriefing focused on the management of decreased oxygenation in the setting of trauma, as well as crisis resource management skills.

7/14/2014	"Neuromuscular Blockade and Reversal" CA-1 Lecture Series
11/25/2013	"Massive Transfusion" Simulation. High fidelity simulation of a clinical trauma emergency, and accompanying debriefing focused on the management of blood loss and the associated management thereof, as well as crisis resource management skills in the setting of a transfusion reaction
11/25/2013	"Malignant Hyperthermia" Simulation. High fidelity simulation of a clinical emergency, and accompanying debriefing focused on the management of a malignant hyperthermia crisis, differential diagnosis, and crisis resource management skills
11/18/2013	"Can't Intubate/Can't ventilate" Simulation: High fidelity simulation of a clinical emergency of a difficult ventilation and intubation focusing on cricothyroidotomy and crisis resource management skills.
11/18/2013	"Amniotic Fluid Embolism" Simulation. High fidelity simulation of a clinical emergency, and accompanying debriefing focused on the management of obstetric emergencies and crisis resource management skills
11/18/2013	"Malignant Hyperthermia" Simulation. High fidelity simulation of a clinical emergency, and accompanying debriefing focused on the management of a malignant hyperthermia crisis, differential diagnosis, and crisis resource management skills
6/3/2013	"Neuromuscular Blockade" CA-1 Lecture Series
6/4/2021	"Neuromuscular Blockade and Reversals) CA-1 Lecture Series
2/13/2012	"Pediatric Tonsillectomy Gone Bad" Pediatric Anesthesia Rotation Lecture Series
5/31/2011	"Neuromuscular Blockade" CA-1 Lecture Series
3/14/2011:	"Potluck Question and Answer Session / Board Review" Pediatric Anesthesia Rotation Lecture Series
8/9/2010	"High Dose Dexmedetomidine" Pediatric Anesthesia Rotation Lecture Series

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7/29/2010	"Neuromuscular Blockers" Resident Lecture Series
4/6/2009	"Syndromes and More Syndromes" Pediatric Anesthesia Rotation Lecture Series
10/20/2008	"Dexmedetomidine: Clinical Applications in Pediatric Anesthesia" Pediatric Anesthesia Rotation Lecture Series
5/10/2008	"SSRIs and their role in the treatment of Chronic Pain Syndromes" UNC Division of Acute Pain Resident Lecture series
8/11/2006:	"Anticoagulation for Cardiopulmonary Bypass" Resident General Lecture Series
12/9/2005	"Temperature monitoring and management" Resident General Lecture Series
8/15/2005	"Phantom Limb Pain" Resident General Lecture Series
11/5/2004	"Sitting Craniotomy" Resident General Lecture Series

LECTURES TO RESIDENTS:

Department of Dentistry, University of North Carolina

4/20/2021	"Introduction to Pediatric Anesthesia" DENG 751 (invited)
10/26/2018:	"Neurotoxicity in Pediatric Anesthesia: What have we learned?" UNC Pediatric Dental Residency program (invited)
3/11/2016:	"Demystifying Pediatric Pain Management" UNC Pediatric Dental Residency program (invited)
1/25/2013:	"Analgesics and Pain Control in Children" UNC Pediatric Dental Residency program (invited)

LECTURES TO RESIDENTS:

Department of Pediatrics, University of North Carolina

5/29/2018	"Acute Pain in Pediatrics" Pain Week Pediatric Residency Lecture Series
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LECTURES TO PEDIATRIC ANESTHESIA FELLOWS:

Department of Anesthesiology, University of North Carolina

5/31/2024	"Finding your Niche in Pediatric Anesthesiology" SPEAR Bootcamp, Gainesville, FL
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Pediatric Anesthesia Fellows from: UNC, VUMC

2/22/24	Simulation of Intraoperative Emergencies (co-taught with J. Sisk and T. Wester) Fellowship Simulation Series
1/23/24	"Special problems in Tonsillectomy Surgery, from Pre- to Post-Op" Individual Fellowship Intensive Review Series
1/12/2024	"Preoperative Anxiety in Pediatrics" Pediatric Anesthesia Fellowship Lecture Series
10/3/2023	"Pediatric Regional Anesthesia Workshop" Co-taught with lead Tracy Wester, MD, Brian Specht, MD, and Janey Phelps, MD
8/31/2024	"Communication" First Friday Breakout Session
10/14/2022	"Pediatric Caudals- Why we do what we do" Pediatric Anesthesia Fellowship Lecture Series
6/14/2022	"Communication- avoiding pitfalls and being specific" First Friday Breakout Group (rescheduled, co-taught with Dr. Jeremy Deer)
5/23/2022	"Finding your Niche in Pediatric Anesthesiology" SPEAR Bootcamp, Nashville, TN Pediatric Anesthesia Fellows from: UNC, VUMC, UAB, UF, UMiss
1/7/2022	"Communication and Conflict" First Friday Breakout Group
7/9/2022	"Pediatric Syndromes and Anesthetic Implications" Pediatric Anesthesia Fellowship Lecture Series
4/2/2021	"Feedback Techniques" First Friday Breakout Group
1/22/2021	"Common Pediatric ENT Procedures" Pediatric Anesthesia Fellowship Lecture Series
7/10/2020	"Premedication Techniques/Parental Presence in the OR" Pediatric Anesthesia Fellowship Lecture Series
5/1/2020	"Ethical Considerations in Pediatrics" First Friday Breakout Group
9/27/2019	"Prematurity and the micro preemie" Pediatric Anesthesia Fellowship Lecture Series

8/23/2019	"Pitfalls in Communication and Conflict" SPEAR Bootcamp Lunch and Learn Session (co-taught with Ann Bailey, MD)
8/8/2019	"Regional Techniques in Pediatrics" Pediatric Anesthesia Live Model Ultrasound Workshop Co-taught with other pediatric anesthesia regional attendings
5/10/2019:	"Posterior Spinal Fusion" Pediatric Anesthesia Fellowship Lecture Series
4/6/2019:	"How to Handle Difficult Conversations " SPEAR Bootcamp Interactive Small Group Session (co-taught with Doyle Lim, MD Nemours Children's)
3/1/2019:	"Identifying Communication Styles and Incorporating into Feedback" First Friday Breakout Group
2/21/2019:	"Pro-Con Debate: Deep vs Awake Extubation in Pediatric Tonsillectomy" Pediatric Anesthesia Fellowship Educational Special Event
10/5/2018:	"Neurotoxicity in Pediatric Anesthesia" First Friday Breakout Group
8/2018:	"Regional Techniques in Pediatrics" Pediatric Anesthesia Live Model Ultrasound Workshop Co-taught with other pediatric anesthesia regional attendings
8/2018:	"Understanding equipment and difficult airway techniques" Pediatric Anesthesia Airway Workshop (co-Taught with Paul Halweg, MD)
4/6/2018:	"Feedback Techniques" Pediatric Anesthesia Transition to Practice Workshop
2/23/2018:	"Posterior Spinal Fusion" Pediatric Anesthesia Fellowship Lecture Series
8/14/2017	"Regional Techniques in Pediatrics" Pediatric Anesthesia Live Model Ultrasound Workshop Co-taught with other pediatric anesthesia regional attendings
2/24/2017:	"Neonatal Respiratory Issues" Pediatric Anesthesia Fellowship Lecture Series
11/4/2016:	"Professionalism – Giving Feedback"

First Friday Breakout Group

- 2/5/2016: "Professionalism – Giving Feedback"
First Friday Breakout Group
- 7/10/2015: "Special Preemie Problems"
Pediatric Anesthesia Fellowship Lecture Series
- 10/3/2014: "Professionalism in Practice"
First Friday Breakout Group
- 3/10/2014: "Professionalism in Pediatric Anesthesiology"
First Friday Breakout Group (rescheduled)
- 8/22/2013: "Pediatric Syndromes"
Pediatric Anesthesia Fellow Series
- 9/27/2013: "Pediatric Syndromes"
Pediatric Anesthesia Fellow Series
- 5/17/2013: "Pediatric Syndromes"
Pediatric Anesthesia Fellow Series
- 5/11/2012: "Anesthesia for the Premature Infant"
Pediatric Anesthesia Fellow Series
- 12/16/2011: "Pediatric Syndromes and their anesthetic implications"
Pediatric Anesthesia Fellow Series
- 3/14/2011: "Prematurity"
Pediatric Anesthesia Fellow Series
- 10/22/2010: "Overview of Pediatric Syndromes"
Pediatric Anesthesia Fellow Series
- 4/5/2010: "So, your next kiddo is a 1.5 kilo neonate... implications for anesthesia"
Pediatric Anesthesia Fellow Series

LECTURES TO FELLOWS:

Department of Anesthesiology, University of Pittsburgh

- 5/16/2008: "Medical Mission Anesthesia"
Pediatric Anesthesia Fellow Lecture Series

LECTURES TO HOSPITAL NURSING AND ANCILLARY STAFF

University of North Carolina Hospitals

- March 12, 2018 “Inpatient Ketamine Policy”
Perioperative Nursing In-Service Presentation
7th floor Children’s Hospital, UNC
- July 13, 2018 “Inpatient Ketamine Policy”
6th Floor Perioperative Nursing In-Service Presentation
- April 2, 2010 “Pediatric Epidurals”
Perioperative Nursing In-Service Presentation
7th Floor Children’s Hospital, UNC

GRAND ROUNDS (UNC)

- 2/3/2021: “Pediatric Pain: Beyond the Opioid”
UNC Department of Otolaryngology
- 8/1/2011: “Perioperative Care of the Pediatric Patient”.
UNC Dept of Oral Maxillofacial Surgery
- 4/8/2009: “Syndromes, and Even more Syndromes”
UNC Department of Anesthesiology

GRAND ROUNDS (OUTSIDE UNC)

- 5/31/2023 “Effective Letter of Recommendation Writing”
Faculty DEI Workshop
Department of Anesthesiology
University of Minnesota
(Virtual) - Invited
- 11/7/2022 “A Practical Guide to Pediatric Pain Management”
Grand Rounds Presentation
Department of Anesthesiology
Boston University
(Virtual) - Invited
- 1/12/2021 “Virtually Changing the Pediatric Perioperative Experience: A Look at the Future
of Virtual Reality”
Grand Rounds Presentation
Department of Anesthesiology
Medical University of South Carolina
(Virtual) - Invited
- 5/1/2019: “A Look at the Future of Virtual Reality and its Impact on Pediatric Perioperative
Care”
Grand Rounds Presentation
Department of Anesthesiology
West Virginia University - Invited
- 5/6/2015: “Obesity in Pediatrics: A Growing Problem—Tips for Management of these Big
Kids in the Operating Room”
Grand Round Presentation

Department of Anesthesiology
Wake Forest Baptist Medical Center - Invited

OTHER INVITED SPEAKING ENGAGEMENTS

11/4/2023	Pediatric Anesthesia Leadership Council (PALC) Meeting Pediatric Anesthesiology Fellowship Updates: Engagement, Recruitment, and Match Transitions Chicago, IL (Invited)
11/3/2023	Pediatric Anesthesiology Breakout Session Moving to the SF Match, Update on GME Taskforce Implementation, and Future Efforts to Recruit into our Specialty- how to get involved SAAAPM Meeting, Chicago, IL (Invited)
11/13/2022	Pediatric Anesthesia Leadership Council (PALC) Meeting An Update on the Pediatric Anesthesia Match and What PALC and PAPDA can do together Chicago, IL (invited)
11/11/2022	Pediatric Anesthesiology Breakout Session San Francisco Match vs NRMP Match Statistics What can PAPDA do? SAAAPM Meeting, Chicago, IL (invited)

CONTINUING EDUCATION LECTURES (UNC):

Course Director

5/2021- present	Program Director for Department of Anesthesiology Faculty Development Series <ul style="list-style-type: none">● arrange for 11-13 lectures each academic year to promote faculty development● CME eligible activity through UNC SOM
5/2020 - present	Pediatric Anesthesia Didactic Lecture Series <ul style="list-style-type: none">● arrange pediatric anesthesia didactics (~24-26 per year)● approved for CME credit through UNC SOM

Course Co-Director:

9/23/2017:	10 th Annual UNC-Duke-Wake Forest Pediatric Anesthesia Conference, Best Practices in Pediatric Anesthesia Care Chapel Hill, NC
9/17/2016:	9th Annual UNC-Duke-Wake Forest Pediatric Anesthesia Conference, Best Practices in Pediatric Anesthesia Care Chapel Hill, NC
9/12/2015:	8th Annual UNC-Duke-Wake Forest Pediatric Anesthesia Conference,

Best Practices in Pediatric Anesthesia Care
Chapel Hill, NC

- 9/6/2014: 7th Annual UNC-Duke-Wake Forest Pediatric Anesthesia Conference,
Best Practices in Pediatric Anesthesia Care
Chapel Hill, NC
- 8/17/2013: 6th Annual UNC-Duke-Wake Forest Pediatric Anesthesia Conference,
Best Practices in Pediatric Anesthesia Care
Chapel Hill, NC
- 8/25/2012: 5th Annual UNC-Duke-Wake Forest Pediatric Anesthesia Conference,
Best Practices in Pediatric Anesthesia Care
Chapel Hill, NC

CONTINUING EDUCATION LECTURES (UNC):

- 9/23/2017: “Quality Improvement and Lessons Learned” – (Panel Moderator).
Given at: 10th Annual UNC-Duke-Wake Forest Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited).
- 9/17/2016: “Practice Makes Perfect: Simulation Demonstration and Debriefing Techniques”
Given at: 9th Annual UNC-Duke-Wake Forest Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited). (co-presenters Hobbs G, Machovec K)
- 9/17/2016: “Many Ways to Calm a Kid—Emergence Agitation Therapies.”
Given at: 9th Annual UNC-Duke-Wake Forest Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited).
- 6/22/2016: “What’s New in the Pediatric Literature and How Will It Affect Your Practice?”
Given at: University of North Carolina, Carolina Refresher Course 2016, Kiawah SC. (Invited)
- 6/22/2016: “Parental Presence at Induction: Pro-Con Debate”
Given at: University of North Carolina, Carolina Refresher Course 2016, Kiawah SC. (Invited) (co-presenter Pittenger S.)
- 6/22/2016: “Outpatient Pediatric Anesthesia for Urologic Procedures: What Are Your Options?”
Given at: University of North Carolina, Carolina Refresher Course 2016, Kiawah SC. (Invited)
- 9/12/2015: “Pediatric Tonsillectomy Gone Bad” (Lunch and Learn/PBLD)
Given at: 8th Annual UNC-Duke-Wake Forest Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited)
- 9/6/2014: “Update: Anesthetic Management of the Patient with Muscular Dystrophy”.
University of North Carolina at Chapel Hill. Given at: 7th Annual Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited)

- 9/6/2014: "Panel Discussion and Afternoon Review." University of North Carolina at Chapel Hill.
Given at: 7th Annual Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited)
- 9/6/2014: "Pediatric Tonsillectomy Gone Bad" (Lunch and Learn/PBLD)
Given at: 7th Annual UNC-Duke-Wake Forest Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited)
- 6/28/2014: "Stressful Pediatric Cases in Everyday Practice" University of North Carolina at Chapel Hill.
Given at Carolina Refresher Course (Invited)
- 6/28/2014: "Panel and Daily Review with Faculty" University of North Carolina at Chapel Hill.
Given at Carolina Refresher Course (Invited)
- 8/25/2012: "Syndromes: When Being Unique Can Be Scary" University of North Carolina at Chapel Hill.
Given at: 5th Annual Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited)
- 6/15/2012: "Routine Tonsillectomy Gone Bad." University of North Carolina at Chapel Hill.
Given at Carolina Refresher Course (Invited)
- 6/14/2012: "Pediatric Procedural Sedation and Anesthesia Outside the Operating Room: Preventing and Managing Complications" University of North Carolina at Chapel Hill.
Given at Carolina Refresher Course (Invited)
- 6/17/2011: "New Drugs, Novel Uses." University of North Carolina at Chapel Hill.
Given at Carolina Refresher Lectures (Invited)
- 6/18/2011: "Pediatric Pain Management" University of North Carolina at Chapel Hill.
Given at Carolina Refresher Lectures (Invited)
- 9/25/2010: "Epidural and Intravenous Analgesia for Postoperative Pain Control". University of North Carolina at Chapel Hill.
Given at: 3rd Annual Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Chapel Hill, NC (Invited)
- 9/13/2008: "Interesting Cases in Pediatric Anesthesia".
Given at: 1st Annual Pediatric Anesthesiology Conference, University of North Carolina at Chapel Hill. Chapel Hill, NC (Invited). (co-presenter Eck, J)

CONTINUING EDUCATION LECTURES (OUTSIDE UNC):

- 4/27/2024: "Obesity: A Growing Problem" Given at 13th Annual UNC-Duke-Wake Forest Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Winston Salem, NC (invited)

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- 10/13/2024 “How Does your Garden Grow? Improving Recruitment into Pediatric Anesthesiology”
Given at: Society for Pediatric Anesthesia Annual Meeting
San Francisco, CA (Invited)
- 4/1/2023 “Hearing, Music and Healing”
Given at: Society for Pediatric Anesthesia Annual Meeting.
Austin, TX (Invited Co- Moderator with Ben Sanofsky, MD)
- 11/11/2022 “Updates from the Subspecialties: Pediatric Anesthesia”
Given at SAAAPM, AASPD Concurrent session
Chicago, IL (Invited)
- 4/27/2019: “Virtually Changing the Pediatric Perioperative Experience: A look at the Future of Virtual Reality”.
Given at 11th Annual UNC-Duke- Wake Forest Pediatric Anesthesiology Conference, Best Practices in Pediatric Anesthesia Care, Winston Salem, NC (Invited).
- 2/11/2015: “Pediatric Acute Pain Management.” Emory University.
Given at: New Horizons in Anesthesiology, Steamboat Springs, CO (Invited)
- 2/11/2015: “Obesity in Pediatrics- A Growing Problem.” Emory University.
Given at: New Horizons in Anesthesiology, Steamboat Springs, CO (Invited)
- 2/10/2015: “Update on Muscular Dystrophy and Malignant Hyperthermia”. Emory University.
Given at: New Horizons in Anesthesiology, Steamboat Springs, CO (Invited)
- 2/10/2015: “Pediatric Sedation and Anesthesia Outside of the Operating Room.” Emory University.
Given at: New Horizons in Anesthesiology, Steamboat Springs, CO (Invited)
- 9/7/2013: “How Pediatric Syndromes involve all of us”
Given at North Carolina Anesthesia Tech Meeting. Asheville, NC, (Invited)
- 9/6/2013: “Syndromes: When Being Unique Can Be Scary” University of North Carolina at Chapel Hill.
Given at: NCSA Anesthesiology 2013: Back to Basics: Patient Care, Teaching, and Research.
Asheville, NC, (Invited)
- 9/12/2009: “Pro-Con Neuromuscular Blockade in Pediatric Surgery.”
Given at: 2nd Annual Pediatric Anesthesiology Conference, Duke University, Durham, NC
(Invited) (co-presenter Frederick,H)

MENTORSHIP EXPERIENCES:

Department of Anesthesiology, University of North Carolina

Mentor to Residents:

2018- 2020: Faculty Mentor:
Brandon Hammond, MD

2015- 2019:	Faculty Mentor: Kristina Mayo, MD
2017-2018:	Faculty Advisor for Academy of Educators: Jennifer Jutson, MD
2011- 2014:	Faculty Mentor: Katie Beth Reding, MD
2009-2011:	Faculty Mentor: Daniel Miller, MD
2008-2009:	Faculty Mentor: Dominika James, MD

Faculty Mentor/Program Director to Fellows:

2023-2024	Shovna Mishra, DO
2023- 2024	Priscila DaSilva, MD
2022- 2023:	Michael Greenberg, MD
2022-2023:	Jason Kopenitz, DO
2021-2022:	Jennifer Soares, MD
2021-2022:	Robin Leopold, MD
2020-2021:	Marley Lawrence, MD
2020-2021:	Joel Barton, MD
2019-2020:	Norbert Rios, MD
2018-2019:	Brian Specht, MD
2018-2019:	Pooja Dave O'Neill, MD
2017-2018:	Barbara Nzegwu, MD
2017-2018:	Gregory Maves, MD
2017-2018:	Courtney Garbee, DO
2016-2017:	Kevin Powell, MD
2016-2017:	Sarah Hall, MD
2016-2017:	Seth Hanley, MD
2015-2016:	Eva Waller, MD
2015-2016:	Paul Halweg, MD
2015-2016:	Nicole Conrad, MD
2014-2015:	Deanna Couser, MD
2014-2015:	Katie Beth Reding, MD
2014-2015:	Matthew McDaniel, MD
2013-2014:	Elizabeth Malinzak, MD
2013-2014:	Puja Roy, MD
2013-2014:	Timothy Erpelding, MD

Mentor to UNC Faculty:

2023- present: Tracy Wester, MD (Associate Professor of Anesthesiology and Pediatrics at UNC)
2022- present: Joseph Sisk, MD (Associate Professor of Anesthesiology and Pediatrics at UNC)

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2022- present: Dominika James, MD (Associate Professor of Anesthesiology at UNC)

2019- 2023: Eva Waller, MD (Assistant Professor of Anesthesiology and Pediatrics at UNC, now in Priv. Practice)

2019- 2022: Martha Kenney, MD (Assistant Professor of Anesthesiology and Pediatrics at UNC, now @ Duke Anes)

7/2020 – 7/2021

Fellowship Research Project

Co-Investigator and Faculty mentor to Dr. Marley Lawrence for an IRB approved prospective study entitled: Evaluation of Virtual Reality Intervention after Pediatric Idiopathic Scoliosis Surgery to Reduce Postoperative Pain and Opioid Consumption. This study aims to investigate the impact of either an iPad device with age appropriate games vs a Virtual Reality Headset on postoperative pain and anxiety in children aged 11-17 undergoing idiopathic scoliosis repair after surgery in the postoperative period. (project in continuance after Dr. Lawrence's graduation)

6/1/2018- April 2020:

Fellowship Research Project

Co-Investigator and Faculty mentor to Dr. Brian Specht for an IRB approved prospective study entitled: Evaluation of Electronic Distraction Devices after Surgery to Reduce Postoperative Pain and Opioid Consumption in Pediatric Patients. This study aims to investigate the impact of either an iPad device with age appropriate games vs a Virtual Reality Headset on postoperative pain and anxiety in children ages 7-18 after surgery. We plan to enroll a total of 150 patients in our study. As noted below, we were awarded a small amount of support from the UNC Research Department to assist with research personnel and equipment. (project was complete after Dr. Specht's graduation, remained his mentor when he joined staff- resulted in publication)

Mentorship Experiences Outside of UNC

2020 – present:

Wendy Nguyen, MD (Assistant Professor of Anesthesiology at University of Minnesota School of Medicine) – through Women's Empowerment and Leadership Initiative (WELI) (A section of Society for Pediatric Anesthesia)

ATTENDING ON CLINICAL SERVICE

Department of Anesthesiology, University of North Carolina

Sept 2008- present Attending Pediatric Anesthesiologist

November 2009- present Attending Pediatric Pain and Regional Anesthesiologist

RESEARCH PROJECTS AND GRANTS

August 2018- present

Analysis of Airway Mucus in Children 0-3 years of age.
NIH project# 5R01HL150541-04 Role: Co-Investigator
% effort 0

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March 2018	Pilot Study: Evaluation of Electronic Distraction Devices after Surgery to Reduce Postoperative Pain and Opioid Consumption in Pediatric Patients Funding: University of North Carolina Department of Anesthesia Research Funds (\$1260 and 6 hours statistician time, % effort 0) Role: Faculty Advisor and Co-Investigator
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University of North Carolina: Pediatric Anesthesia Enhanced Recovery Projects

11/2019 – present	Enhanced Recovery After Surgery pathway for Pediatric G tube (Lead: Michael Phillips, MD)
7/1/2017- present	Enhanced Recovery after Surgery for Pediatric Colorectal Patients (Lead Michael Phillips, MD, formerly William Adamson, MD)

PROFESSIONAL SERVICE

To Discipline:

National Professional Organizations

May 2024- present	Pediatric Anesthesia Program Director Association Society of Pediatric Anesthesiology Role: Immediate Past -President (elected)
November 2023- present	SPA Taskforce on Workforce issues in Pediatric Anesthesiology Role: Member (invited)
March 2023 - present	Society of Pediatric Anesthesiology Committee on Curriculum Development and Scholarly Activity Role: Co-Chair (appointed)
May 2022- May 2024	Society of Pediatric Anesthesiology Board of Directors Role: Member (appointed)
April 2020-Present:	Women's Empowerment and Leadership Initiative (WELI) Society of Pediatric Anesthesiology Role: Mentor (nominated and selected)
March 2014- present	Society for Education in Anesthesiology (SEA) Role: Member
2008- present	Society for Pediatric Anesthesia (SPA) Role: Member
2008- present	North Carolina Society of Anesthesiology (NCSA) Role: Member

2003- present	American Society of Anesthesiology (ASA) Role: Member
May 2022 - May 2024	Pediatric Anesthesia Program Director Association Society of Pediatric Anesthesiology Role: President (elected)
July 2013 – July 2024	Pediatric Anesthesia Leadership Council (PALC) Society for Pediatric Anesthesia Role: Member (non-voting)
Nov 2013- July 2024	Society for Academic Anesthesiology Associations and Perioperative Medicine (SAAAPM) Role: Member
April 2022	Ophthalmic Plastic And Reconstructive Surgery Journal Role: Peer Reviewer (invited)
May 2020 to May 2022	Pediatric Anesthesia Program Director Association Society of Pediatric Anesthesiology Role: President Elect (elected)
Jan 2021- Jan 2022	The American Surgeon Role: Peer Reviewer (invited)
June 2016- December 2021	American Board of Anesthesiology MOCA 2.0 Pediatric Anesthesia Exam Developer and Editor Role: Question Writer
March 2016- December 2021	American Board of Anesthesiology MOCA 2.0 Pediatric Anesthesia Content Outline Committee Role: Member
March 2020	Society of Pediatric Anesthesia Nominating Committee Role: Invited Member for selection of SPA Board
Nov 2018-Nov 2020	American Association Subspecialty Program Directors (AASPD) Role: Councilor/Pediatric Anesthesia Fellowship Representative (elected)
May 2018-May 2020	Pediatric Anesthesia Program Director Association Society of Pediatric Anesthesia Role: Secretary/Treasurer (elected)
Jan 2019	Journal of Clinical Medicine

Role: Peer Reviewer (invited)

May 2017-May 2018

Pediatric Anesthesia Program Director Association
Society of Pediatric Anesthesia
Role: Member at Large (elected)

Jan 2014- May 2017:

Pediatric Anesthesia Program Directors Association (PAPDA)
Society for Pediatric Anesthesia
Role: Task force for Standardized Goals and Objectives

July 2013- May 2017: Pediatric Anesthesia Program Directors Association (PAPDA)

Society for Pediatric Anesthesia

Role: General Member

2004-2006:

Organization of Resident Representatives
American Association of Medical Colleges
Role: UNC Resident Representative (nominated)

2005:

American Society of Anesthesiology (ASA)
Role: North Carolina Resident Delegate

Within University of North Carolina, Chapel Hill:

UNC Department of Anesthesiology Committees

Sept 2023- Present	TEACHER Lab - member
October 2021	Chair of Search Committee for VC of Research in Dept of Anesthesiology
July 2021 - present	Academic Performances Assessment Committee (APAC)- Member
May 2021- present	Appointments, Promotion and Tenure Committee, Chair
March 2020- present	Appointments, Promotion and Tenure Committee, member
October 2020- present	UNC Women in Anesthesia Local Chapter, Co-Chair/Co-founder
2020-present	Finance Committee, UNC Dept of Anesthesia, Member
2015- present	Social Media Committee, UNC Dept of Anesthesia, Member
2012-present	Pediatric Fellowship Clinical Competency Committee, Vice Chair
2012- present	Pediatric Anesthesia Fellowship Program Evaluation Committee, Chair
2008- present	Faculty Interviewing Committee, Member
July 2020- July 2023	Pediatric Anesthesia Fellowship Scholarly Activity Committee (PAFSAC), Chair
2012-2024	Pediatric Anesthesia Fellowship Recruitment and Selection Committee, Chair
2008- 2021	UNC Anesthesiology Residency Program Evaluation Committee, Member
2008- 2013	Pediatric Anesthesia Fellowship Program Evaluation Committee, member
2012-2019	UNC Anesthesiology Continuing Education Committee, member
2014-2015	Ped Anes Fellowship Milestones Committee (to develop new evaluations), Chair
2013-2015	Simulation Planning Committee (CAPSEL), member
2010-2012	UNC Anesthesiology Equipment Committee, member

UNC Department of Anesthesiology: Other Administrative Activities

2021- 2023	VISIPAP (Visiting Scholars In Pediatric Anesthesia Program) UNC Coordinator
2008-present	Semi-Annual Resident Mock Oral Examinations, Faculty Examiner
2012- present	Contribute to grading resident OSCEs Bi-Annually
2011	Drafted and published hospital wide “NPO” cards for patients aka “Yellow card”
2010- present	Participate yearly in Oral Board Course as instructor

UNC Hospital and School of Medicine Committees and Programs

July 2021- June 2024	UNC SOM Fixed Term Promotions Committee, elected member
July 2022- June 2023	UNC SOM Fixed Term Promotions Committee, Chair
March 2020-April 2020	UNC Health Coronavirus PPE Task Force, invited member

Diversity, Equity and Inclusion Activities:

Participation in yearly DEI training:

- Kirwani Institute Implicit Bias training- completed March 2021, April 2023
- Attend Departmental Table talks on Diversity

Women in Anesthesia Co-founder/Co-Chair for UNC Chapter:

-help organize events and implement the mission of WIA to promote leadership skills in women in anesthesia-

- Elizabeth Malinzak: “The Cost of Caregiving” 4/16/2024
- Book Club “Wolfpack” by Abby Womback: 9/30/2023
- Book Club: “Dare to Lead” by Brene Brown: 1/12/2022
- Marjorie Stiegler: “How to be a good mentor and Mentee” 8/17/2021
- Niha Wunnava: “Leading with Confidence to Magnetize your Next Role” 3/13/2021