



### **PERSONAL INFORMATION**

**Name:** Susan Marie Martinelli

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

**Work Phone:** (919) 966-5136

### **EDUCATION**

#### **POST GRADUATE**

7/07-6/08	Duke University Medical Center Durham, NC Department of Anesthesiology Chair: Dr Mark Newman Director: Dr Mark Stafford-Smith	Cardiothoracic Anesthesiology Fellowship
6/03-6/07	University of North Carolina Chapel Hill, NC Department of Anesthesiology Chair: Dr Ed Norfleet Director: Dr David Mayer	Anesthesiology Residency

#### **GRADUATE**

8/99-5/03	University of Wisconsin Madison, WI	Doctor of Medicine
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#### **UNDERGRADUATE**

8/95-5/99	University of Wisconsin Madison, WI	Bachelor of Science Molecular Biology
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### **CERTIFICATIONS/LIENSURE**

Specialty Certification	American Board of Anesthesiology #43331	valid through 2028
Other Certifications	Perioperative Transesophageal Echocardiography	valid through 2028
	Education Research Methodology Certificate University of Illinois	12/15
	Yellow Belt Certification Lean Six Sigma	12/14
	Medical Education Research Certificate Association of American Medical Colleges	5/12
Medical Licensure	North Carolina Medical Board License #2007-00552	valid through 2024

**PROFESSIONAL EXPERIENCE—Employment History**

5/23-present	Edward A Norfleet, MD Distinguished Professor	University of North Carolina Department of Anesthesiology
1/21-present	Core Residency Program Director	University of North Carolina Department of Anesthesiology
4/19-present	Professor of Anesthesiology	University of North Carolina Department of Anesthesiology
2/14-4/19	Associate Professor of Anesthesiology	University of North Carolina Department of Anesthesiology
7/13-12/20	Associate Residency Program Director	University of North Carolina Department of Anesthesiology
6/09-7/13	Assistant Residency Program Director	University of North Carolina Department of Anesthesiology
8/08-2/14	Assistant Professor of Anesthesiology	University of North Carolina Department of Anesthesiology

**HONORS**

2023	Medical Alumni Distinguished Teaching Professorship	Academy of Educators University of North Carolina School of Medicine
2023	Phillip Lu Award for Innovation In Anesthesia Education: Education Research	Society for Education in Anesthesia
2020	Resident Education Honor Roll	University of North Carolina Department of Anesthesiology
2020	Honor Roll of Top Clinician-Researchers	University of North Carolina Department of Anesthesiology
2020	Distinguished Educator in Anesthesiology	American Society of Anesthesiologists & Society for Education in Anesthesia
2019	Faculty Mentorship of Residents Award	University of North Carolina Department of Anesthesiology
2018	2017-2018 Top Clinician-Researcher	University of North Carolina Department of Anesthesiology
2018	Resident Education Honor Roll	University of North Carolina Department of Anesthesiology
2018	Runner-up—Phillip Lu Award for Innovation	Society for Education in

	In Anesthesia Education: Innovation in Curriculum	Anesthesia
2018	Silver Quill Award Highest average downloads per month	<i>Medical Education</i>
2017	Faculty Development Award in Simulation Education	University of North Carolina Department of Anesthesiology
2017	Best Research Abstract	International Meeting on Simulation in Healthcare
2017	Fellow, FASA Designation	American Society of Anesthesiologists
2017	Inducted as member	Association of University Anesthesiologists
2016	Best Scientific Research Abstract	Society for Education in Anesthesia
2015	Resident Education Honor Roll	University of North Carolina Department of Anesthesiology
2014	Chairman's Award for Outstanding Scholarship	University of North Carolina Department of Anesthesiology
2013	Resident Education Honor Roll	University of North Carolina Department of Anesthesiology
2013	Best Curriculum Poster	Society for Education in Anesthesia
2013	Travel Grant	Academy of Educators University of North Carolina School of Medicine
2013	Excellence in Teaching Clinical Sciences Award	Academy of Educators University of North Carolina School of Medicine
2012-2013	Passing the Torch: Fostering Medical Humanism Through Faculty Role Models	University of North Carolina School of Medicine
2012	Academy of Educators Inducted as Member	University of North Carolina School of Medicine
2010, 2011	Resident Education Honor Roll	University of North Carolina School of Medicine
2009-2010	Teaching Scholars Program	University of North Carolina School of Medicine
2009	Faculty Teaching Award	University of North Carolina Department of Anesthesiology
2007	George Sheldon Leadership Award	University of North Carolina Department of Anesthesiology

2002	Alpha Omega Alpha Medical Honor Society	University of Wisconsin School of Medicine
1998	Lewis E and Edith Phillips Scholarship	University of Wisconsin School of Medicine
1998	Phi Beta Kappa	University of Wisconsin
1995	Higher Education Board Scholarship	University of Wisconsin

## **BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP**

### **BOOK CHAPTERS:**

1. McCartney S, **Martinelli SM**, Kumar PA. Thoracic Transplantation. In: Mathew JP, Ayoub CM, Nicora A, Swaminathan M. *Clinical Manual and Review of Transesophageal Echocardiography*. 3<sup>rd</sup> ed. New York: McGraw Hill; 2019, pages 466-485.
2. **Martinelli SM**, Bowe EA. The Interactive Classroom. In: Bowe EA, Schell RM, DiLorenzo A. *Education in Anesthesia: How to Deliver the Best Learning Experience*. 1<sup>st</sup> ed. New York: Cambridge University Press; 2018, pages 160-185.
3. **Martinelli S**, Barrick B, Swaminathan M. Perioperative Cardiac Monitorization with TEE. In: Chisea R, Melissano G, Zangrillo eds. *Thoraco-Abdominal Aorta: Surgical and Anesthesiological Management*. 1st ed. New York: Springer; 2010, pages 271-276.
4. **Martinelli SM**, Rogers JG, Milano CA. The Role for Transesophageal Echocardiography in Heart Failure Surgery Involving Mechanical Circulatory Support. In: Mathew JP, Swaminathan M, and Ayoub CA, ed. *Clinical Manual and Review of Transesophageal Echocardiography*, 2<sup>nd</sup> ed. New York: McGraw-Hill; 2010, pages 387-405.

### **REFEREED (PEER – REVIEWED) PUBLISHED PRODUCTS OF SCHOLARSHIP:**

#### **Research/Reviews**

1. Chen F, Powers K, Goetzinger AM, Patidar S, Moulthrop AJ, Pamacheche C, **Martinelli SM**. Exploring the Impact of Book Club Participation on Clinicians' Empathy and Reflection on Empathetic Practice: A Wake-Up Call. *Cureus*. 2023 May 29; 15(5): e39656. DOI: 10.7759/cureus.39656.
2. Chen F, Rahim S, Isaak R, Chidgey BA, Teeter EG, Arora H, **Martinelli SM**. Maintaining Social Support in the Era of Social Distancing: Transitioning an In-Person Oriented Wellness Event to a Virtual Venue. *eLearn* 2023, Special Issue, Article 4 (February 2023). <https://doi.org/10.1145/3583062.3539612>
3. Chen F, Isaak R, Afroze F, Mulaikal TA, Licatino LK, Ladlie B, Jain A, Willie C, Bairde E, Hayes BH, Carter T, Zisblatt L, Diachun C, Martin TW, Marshall JM, Huffmyer J, Hindle AK, Stahl DL, Liu Y, **Martinelli SM**. A Multi-Site Survey Study on the Association Between the COVID-19 Pandemic and United States Anesthesiology Residents' Mental Health. *Cureus*. 2023 Feb 8; 15(2):e34782. DOI: 10.7759/cureus.34782.
4. Brown KB, Cook A, Chen F, **Martinelli SM**. A Perspective on Wellness in Anesthesiology Residency Programs: A Multi-Strategy Approach. *Anesthesiol Clin*. 2022 Jun; 40(2):257-274. DOI: 10.1016/j.anclin.2022.01.003.
5. Chen MJ, Ambardekar A, **Martinelli SM**, Buhl LK, Walsh DP, Levy L, Ku C, Rubenstein LA, Neves S, Mitchell JD. Defining and Addressing Anesthesiology Needs in Simulation Based Medical Education.

- <https://pubmed.ncbi.nlm.nih.gov/36051401/> *J Educ Periop Med*. 2022 Apr 1;24(2):1-15. DOI: 10.46734/volxxiv\_issue2\_mitchell.
6. Zwemer E, Chen F, Dallaghan GB, Shenvi, C, Wilson L, **Martinelli SM**, Resnick-Kahle M, Crowner J, Joyner BL, Westervelt L, Jordan JM, Chuang A, Shaheen A. Reinvigorating an Academy of Medical Educators Using Ecological Systems Theory. *Cureus* 14(1): e21640. DOI:10.7759/cureus.21640.
  7. **Martinelli SM**, Chen F, Isaak RS, Hendrickse A, Mahoney B, Diachun Carol AB, Mitchell JD. Transitioning to Virtual Meetings: Experiences from the Society for Education in Anesthesia Virtual Fall 2020 Meeting. *J Educ Periop Med*. 2021 Jul1; 23(3):E667. doi: 10.46374/volxxiii\_issue3\_martinelli. eCollection 2021 Jul-Sep.
  8. **Martinelli SM**, Chen F, Isaak RS, Huffmyer JL, Neves SE, Mitchell JD. Educating Anesthesiologists During the COVID-19 Pandemic and Beyond. *Anesth Analg*. 2021 Mar 1;132(3):585-593. DOI: 10.1213/ANE.000000000000533.
  9. Chen F, Isaak RS, Steiner B, **Martinelli SM**. COVID-19 Impacts Students Perception of the Future. *N C Med J* 2021; 82(1): 83-86.
  10. **Martinelli SM**, Isaak RS, Chidgey BA, Bullard TL, DiLorenzo A, Rebel A, Chen F. Family Comes First: A Pilot Study of the Incorporation of Social Support into Resident Well-being. *J Educ Periop Med Issue IV, Vol XXII. Oct-Dec 2020*. DOI: 10.46374/volxxii-issue4-martinelli
  11. Mulaikal TA, Helou MF, **Martinelli SM**. Training the Next Generation of Anesthesiologists. *Int Anesthesiol Clin*. Fall 2020; 58(4): 23-30. DOI: 10.1097/AIA.0000000000000299.
  12. Chen F, Carter T, Maguire DP, Blanchard E, **Martinelli SM**, Isaak RS. Experience is the Teacher of all Things: Prior Participation in Anesthesiology OSCEs Enhances Communication of Treatment Options with Simulated High-Risk Patients *J Educ Perioper Med*. 2019; 21(3):E626.
  13. **Martinelli SM**, Isaak RS, Schell RM, Mitchell JD, McEvoy MD, Chen F. Learners and Luddites in the Twenty-First Century: Bringing Evidence-Based Education to Anesthesiology. *Anesthesiology* 2019 Oct; 131(4): 908-928. DOI: 10.1097/ALN.0000000000000287.
  14. Bhatia M, Kumar P, **Martinelli SM**. Surgical Echocardiography of the Mitral Valve: Focus on 3D. *Semin Cardiothorac Vasc Anesth*. 2019 Mar; 23(1):26-36. DOI: 10.1177/1089253218789409.
  15. Chen F, Arora H, Zvara DA, Connolly A, **Martinelli SM**. Anesthesia My Tip Report: A Web Based Tool for Real-Time Evaluation of Accreditation Council for Graduate Medical Education's Milestone Competencies and Clinical Feedback to Residents. *A A Pract*. 2019 Jun 3;12(11):412-415. DOI: 10.1213/XAA.0000000000000976.
  16. Isaak RS, Chen F, **Martinelli SM**, Arora H, Zvara DA, Hobbs G, Stiegler MP. Validity of Simulation-Based Assessment for Accreditation Council for Graduate Medical Education Milestone Achievement. *Simul Healthc*. 2018 Jun; 13(3): 201-210. DOI: 10.1097/SIH.0000000000000285.
  17. Isaak R, Stiegler M, Hobbs G, **Martinelli S**, Zvara D, Arora H, Chen F. Comparing Real-time Versus Delayed Video Assessments for Evaluating ACGME Sub-competency Milestones in Simulated Patient Care Environments. *Cureus* 2018 March; 10(3):e2267. doi:10.7759/cureus.2267
  18. **Martinelli SM**, Chen F, Hobbs G, Chidgey BA, Straube LE, Zvara D, Isaak R. The Use of Simulation to Improve Family Understanding and Support of Anesthesia Providers. *Cureus*. 2018 Mar 2; 10(3): e2262. doi:10.7759/cureus.2262
  19. Henley M, Farber MA, Ikonomidis JS, Kolarczyk LM, Teeter EG, Barrick BP, Caranasos TG, **Martinelli SM**. A Tale of Three Surgeries: Management of a Massive Recurrent Mycotic Aortic Pseudoaneurysm. *J Cardiothorac Vasc Anesth*. 2018 Feb; 32(1) 550-557. DOI: 10.1053/j.jvca.2017.08.042.
  20. **Martinelli SM**, Chen F, McEvoy MD, Zvara DA, Schell RM. Utilization of the Flipped Classroom in Anesthesiology Graduate Medical Education: An Initial Survey of Faculty Beliefs and Practices About Active Learning. *J Educ Perioper Med*. 2018 Jan 1; 20(1): E617.

21. Chen F, Arora H, **Martinelli SM**. Use of Key Performance Indicators to Improve Milestone Assessment in Semi-Annual Clinical Competency Committee Meetings. [J Educ Perioper Med. 2017 Oct 1; 19\(4\): E611.](#)
22. Karhausen JA, Smeltz AM, Akushevich I, Cooter M, Podgoreanu MV, Stafford-Smith M, **Martinelli SM**, Fontes ML, Kertai MD. Platelet Count and Postoperative Stroke After Coronary Artery Bypass Grafting Surgery. [Anesth Analg. 2017 Oct;125\(4\):1129-1139.](#) DOI: 10.1213/ANE.0000000000002187.
23. Isaak RS, Chen F, Arora H, **Martinelli SM**, Zvara DA, Stiegler MP. A Descriptive Survey of Anesthesiology Residency Simulation Programs: How are Programs Preparing Residents for the New American Board of Anesthesiology APPLIED Certification Exam? [Anesth Analg. 2017 Sept; 125\(3\):991-998.](#) DOI: 10.1213/ANE.0000000000002189.
24. **Martinelli SM**, Chen F, DiLorenzo AN, Mayer DC, Bowe EA, Fairbanks S, Hendrickse A, VanDyke K, Trawicki MC, Moran K, Rankin D, Guldán GJ, Hand W, Gallagher C, Jacob Z, Ku C, Mitchell JD, Royal KD, McEvoy MD, Zvara, DA, Schell RM. Results of a Flipped Classroom Teaching Approach in Anesthesiology Residents. [J Grad Med Educ. 2017 Aug 9\(4\):485-490.](#) DOI: 10.4300/JGME-D-17-00128.1.
25. Chen F, Arora H, **Martinelli SM**, Teeter E, Mayer D, Zvara DA, Passannante A, Smith KA. The Predictive Value of Pre-Recruitment Achievement on Resident Performance in Anesthesiology. [J Clin Anesth. 2017 Jun; 39:139-144.](#) DOI: 10.1016/j.jclinane.2017.03.052.
26. Chen F, Lui AM, **Martinelli SM**. A Systematic Review of the Effectiveness of Flipped Classrooms in Medical Education. [Med Educ. 2017 Jun; 51\(6\): 585-597.](#) DOI: 10.1111/medu.13272.
27. **Martinelli SM**, Lateef BD, Long JM, Huang DY, Karmarkar A, Barrick BP. Challenges in the Anesthetic Management for a Robotic Thymectomy in a Patient with Myasthenia Gravis: A Case Report. [A A Case Rep. 2017 May 1;8\(9\):222-225.](#) DOI: 10.1213/XAA.0000000000000471.
28. **Martinelli SM**, Lobonc A, Wallen EM, Stansfield WE, Selph JP, Calvo B, Kumar PA. Combined Aortic Valve Replacement and Renal Cell Carcinoma Thrombectomy. [Semin Cardiothorac Vasc Anesth. 2017 Mar;21\(1\):95-98.](#) DOI: 10.1177/1089253215616498.
29. Welsby IJ, Krakow EF, Heit JA, Williams EC, Arepally GM, Bar-Yosef S, Kong DF, **Martinelli S**, Dhakal I, Liu WW, Krischer J, Ortel TL; Rare Thrombotic Disorders Consortium. The Association of Anti-Platelet Factor 4/Heparin Antibodies with Early and Delayed Thromboembolism After Cardiac Surgery. [J Thromb Haemost. 2017 Jan;15\(1\):57-65.](#) DOI: 10.1111/jth.13533.
30. Teeter EG, Barrick BP, Kumar PA, Haithcock BE, Karenz AR, **Martinelli SM**. Anesthetic Management of a Patient with Situs Inversus for Bilateral Orthotopic Lung Transplantation. [J Cardiothorac Vasc Anesth. 2016 Dec;30\(6\):1641-1644.](#) DOI: 10.1053/j.jvca.2016.01.019.
31. Isaak R, Chen F, Hobbs, G, **Martinelli SM**, Stiegler M, Arora H. Standardized Mixed-Fidelity Simulation for ACGME Milestones Competency Assessment and Objective Structured Clinical Exam Preparation. [Med Sci Educ. 2016 Sept; 26\(3\): 437-441.](#)
32. Kumar PA, **Martinelli SM**, Kyle RW, Arora H. Echocardiographic Discovery of Doubled Interatrial Septum: An Incidental Finding. [Semin Cardiothorac Vasc Anesth. 2016 Sep; 20\(3\):237-9.](#) DOI: 10.1177/1089253215584920.
33. Asgarian CD, **Martinelli SM**, Mark JB, Kumar PA. Partial Anomalous Hepatic Venous Return: A Systematic Intraoperative Exclusion of Other Serious Diagnoses. [Anesth Analg. 2016 Feb; 122\(2\): 349-353.](#) DOI: 10.1213/ANE.0000000000001051.
34. **Martinelli S**, Bass C, Zakrajsek T, Mayer D. Don't Fall in the (Generation) Gap!—A Workshop Addressing Generational Differences in Medical Training. MedEdPORTAL Publications; 2015. Available

from: <https://www.mededportal.org/publication/10206> [http://dx.doi.org/10.15766/mep\\_2374-8265.10206](http://dx.doi.org/10.15766/mep_2374-8265.10206)

35. **Martinelli SM**, Berry J, Dalal N, Stansfield W, Moylan VJ Jr, Kumar P. Left Atrial Dissection: Natural Progression Through Imaging. [Anesth Analg. 2014 Nov; 119\(5\): 1078-1081](#). DOI: 10.1213/ANE.0000000000000449.
36. **Martinelli SM**, McGraw KA, Kalbaugh CA, Vance S, Viera AJ, Zvara DA, Mayer DC. A Novel Core Competencies-Based Academic Medicine Curriculum: Description and Primary Results. [J Educ Perioper Med. 2014 Jul 1;16\(10\): E076](#).
37. Joseph JA, Terry CM, Waller EJ, Bortsov AV, Zvara DA, Mayer DC, **Martinelli SM**. Enhancement of Anesthesiology In-Training Exam Performance with Institution of an Academic Improvement Policy. [J Educ Perioper Med. 2014 Jan 1;16\(6\): E072](#).
38. Ferrero NA, Bortsov AV, Arora H, **Martinelli SM**, Kolarczyk LM, Teeter EC, Zvara DA, Kumar PA. Simulator Training Enhances Resident Performance in Transesophageal Echocardiography. [Anesthesiology. 2014 Jan; 120\(1\):149-59](#). DOI: 10.1097/ALN.0000000000000063.
39. Kumar PA, Graybill M, Chidgey B, **Martinelli SM**, Arora H. An Incidental Discovery or an Impending Disaster in a Patient with Coronary Disease? [J Cardiothorac Vasc Anesth. 2012 Apr; 26\(2\): 349-51](#). DOI: 10.1053/j.jvca.2010.10.006.
40. **Martinelli SM**, Monroe H, Coombs R, Miller N, Bortsov A, Salo-Coombs V. Assessing the Impact of a Regional Anesthesia Workshop on Anesthesiology Residents' Perceived Comfort in Performing Peripheral Nerve Blocks. [J Educ Perioper Med. 2012 Jan 1;14\(2\): E061](#).
41. **Martinelli SM**, Patel UD, Phillips-Bute BG, Milano CA, Archer LE, Stafford-Smith M, Shaw AD, Swaminathan M. Trends in Cardiac Surgery-Associated Acute Renal Failure in the United States: A Disproportionate Increase After Heart Transplantation. [Ren Fail. 2009; 31\(8\): 633-40](#). DOI: 10.3109/08860220903100689.
42. **Martinelli SM**, Mitchell JD, McCann RL, Podgoreanu MV, Mathew JP, Swaminathan M. Intraoperative Transesophageal Echocardiography Diagnosis of Residual Tumor Fragment After Surgical Removal of Renal Cell Carcinoma. [Anesth Analg. 2008 Jun;106\(6\): 1633-5](#). DOI: 10.1213/ane.0b013e3181734147.

#### Collaborative Original Research:

1. The POISE-2 Investigators. Perioperative Aspirin and Clonidine and Risk of Acute Kidney Injury. [JAMA. 2014 Dec; 312\(21\): 2254-2264](#). DOI: 10.1001/jama.2014.15284.
2. The POISE-2 Investigators. Clonidine in Patients Undergoing Noncardiac Surgery. [N Engl J Med. 2014; Apr 17;370\(16\): 1504-13](#). DOI: 10.1056/NEJMoa1401106.
3. The POISE-2 Investigators. Aspirin in Patients Undergoing Noncardiac Surgery. [N Engl J Med. 2014; Apr 17;370\(16\): 1494-593](#). DOI: 10.1056/NEJMoa1401105.

I was a co-investigator for the UNC component of the POISE 2 trial, which was a worldwide, multi-institutional study.

#### **Editorials/Letters**

1. Chen F, Lui AM, **Martinelli SM**. In response to Vanneman et al. on 'Studies on the effectiveness of flipped classrooms'. [Med Educ. 2018 Aug; 52\(8\):877](#). DOI:10.1111/medu.13597.



2. **Martinelli SM**, Chen F, Hobbs GW, Chidgey BA, Hueske AR, Straube LE, Zvara DA, Isaak RS. You Will Never Walk Alone: A Simulation Experience for Caregiver's Family and Friends. [Anesth Analg. 2017 Dec;125\(6\):2171](#). DOI: 10.1213/ANE.0000000000002516.
3. Chen F, **Martinelli SM**, Arora H. Overnight Call and Cognitive Functioning: Will Tablet-Based Assessment Be the Solution for Safety Check in Residents? [J Clin Anesth. 2017 Aug; 40:123-124](#). DOI: 10.1016/j.jclinane.2017.05.007.

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

1. Chen F, Stiegler M, **Martinelli SM**, Arora H, Isaak R. No Miracles in Two Minutes: A Randomized Controlled Study on the Impact of Preparatory Expansive Posing on Anesthesiology Residents' Performance in Mock Structured Oral Examinations. Accepted to *J Educ Periop Med* February 2023.
2. **Martinelli SM**, Tran T, Chidgey BA, Isaak RS, Teeter EG, Chen F. Family Anesthesia Experience: Improving Social Support of Residents Through Education of Their Family and Friends. Submitted to MedEdPORTAL Jan 2023.

#### REFEREED ( PEER-REVIEWED) ABSTRACTS:

1. Tripi J, Quinn J, **Martinelli SM**. Constrictive pericarditis requiring pericardiectomy: a COVID-19 sequela? Society of Cardiovascular Anesthesiologists Annual Meeting. May 2023. Portland, OR.
2. Chen F, Belgique ST, Canter C, Boscardin CK, Willie C, Mitchell J, Sullivan K, **Martinelli SM**. Unprofessionalism in anesthesiology: Development of a framework of unprofessional behavior based on a multi-institutional vignette survey. Oral presentation in the scientific research category, Society for Education in Anesthesia Spring Annual Meeting. April 2023. Seattle, WA.
3. Cook A, **Martinelli SM**, Gonzalez M, Greenberg M, Bhatia M. Postoperative Cardiac Tamponade after Left Ventricular Assist Device Placement: An Interesting Case. Society of Cardiovascular Anesthesiologists Annual Meeting. May 2022. Palm Springs, CA.
4. Chen F, Stiegler M, **Martinelli S**, Arora H, Isaak R. No Miracles in Two Minutes: Preparatory Expansive Posturing Has No Impact on Anesthesiology Residents' Performance in Mock Structured Oral Examinations. Society for Education in Anesthesia Annual Meeting. April 2022. Pittsburgh, PA.
5. Chen MJ, Ambardekar A, **Martinelli SM**, Buhl LK, Walsh DP, Levy L, Ku C, Rubenstein LA, Neves S, Mitchell JD. Assessing Anesthesiology Needs in Simulation Based Medical Education. Association of University Anesthesiologists and International Anesthesia Research Society Annual Meetings. March 2022. Virtual.
6. Chen F, Powers K, Al-Kadhi F, Goetzinger AM, Patidar S, Moulthrop AJ, Pamacheche C, **Martinelli SM**. A Wakeup Call: Shaping Empathetic Practice in Medicine Using Book Club. UNC School of Medicine Wellness Scholarship Expo. November 2021. Chapel Hill, NC.
7. Puentes JA, **Martinelli SM**, Henry M, Kolarczyk L. From Bad to Worse: Anaphylactic Shock in a Patient with Acute Post Operative Hemorrhage. American Society of Anesthesiologists Annual Meeting. October 2021; Virtual.
8. **Martinelli SM**, Isaak RS, Afroze F, Mulaikal T, Licatano L, Ladlie B, Jain A, Willie C, Bairde E, Hayes B, Carter T, Zisblatt L, Diachun C, Martin T, Marshall J, Huffmyer J, Hindle AK, Chen F. Unexpected Minimal Impact of COVID-19 on Anesthesiology Resident Well-Being. International Conference on Physician Health. April 2021. Virtual.
9. Leone N, **Martinelli SM**, Kolarczyk LM. Recurrent Massive Right Atrial Thrombus Requiring Two Open Embolectomies: A Coin Collector's Tale. Society of Cardiovascular Anesthesiologists Annual Meeting. April 2021. Virtual.



10. **Martinelli SM**, Chen F, Chidgey BA, Bullard T, Rebel A, DiLorenzo A, Isaak RS. Family Anesthesia Experience: A Family Focused Experience to Enhance Wellbeing of New Anesthesia Residents. University of North Carolina School of Medicine Wellness Scholarship Expo. November 2019. Chapel Hill, NC.
11. Goetzinger A, Patidar S, Johnson L, Hueske A, Doerr P, **Martinelli S**. Department of Anesthesiology Wellness Project: Application of AMA's Pebble in the Shoe Model. University of North Carolina School of Medicine Wellness Scholarship Expo. November 2019. Chapel Hill, NC.
12. Huber C, **Martinelli S**. Comparison in Educational Benefit Between Hands-on and Internet-based Bronchoscopy Simulators for Novice Practitioners. Society for Education in Anesthesia Spring Annual Meeting. April 2018; Louisville, KY.
13. Mathew A, Berry G, Kidd B, Sriram N, Arora H, **Martinelli S**, Bass C. Reducing Cost and Promoting Environmentally Sustainable Practice via Education on Proper Operating Room Waste Segregation: A Quality Improvement Project. American Society of Anesthesiologists Annual Meeting. October 2017; Boston, MA.
14. **Martinelli, SM**, Chen, F, Arora, H, Zvara, D, Connolly, A. Implementing a Technology-Based Cognitive Aid for Feedback in Accordance with ACGME Milestone Competencies in Anesthesiology. Society for Education in Anesthesia Spring Annual Meeting. April 2017; Jacksonville, FL.
15. Chen, F, Harendra, A, **Martinelli, SM**. Use of Key Performance Indicators for Milestone Assessment in Semi-Annual Clinical Competency Committee Meetings. Society for Education in Anesthesia Spring Annual Meeting. April 2017; Jacksonville, FL.
16. Stiegler M, Hobbs G, Chen F, **Martinelli S**, Arora H, Isaak R. Validity of Simulation-Based Assessments for ACGME Milestone Achievement. International Meeting for Simulation in Healthcare. January 2017; Orlando, FL.
17. Henley MD, Kolarczyk L, **Martinelli SM**, Teeter E, Dickerson J, Frangopoulos C, Rohman T, Barrick B. Approach to Management of a Massive Recurrent Mycotic Aortic Pseudoaneurysm: A Tale of Three Surgeries. American Society of Anesthesiologists Annual Meeting. October 2016; Chicago, IL.
18. Willie CA, Qualls T, **Martinelli SM**, Kolarczyk LM, Redmon BF. Use of TEE Via Facetime to Aid in the Diagnosis of Refractory Hypotension During Robotic Cholecystectomy. American Society of Anesthesiologists Annual Meeting. October 2016; Chicago, IL.
19. Chen F, Arora H, **Martinelli S**, Mayer D, Passannante A, Smith K. The Predictive Value of Pre-Recruitment Academic Achievement on Resident Performance in Anesthesiology. Society for Education in Anesthesia Annual Meeting. June 2016; Baltimore, MD.
20. Fragneto R, DiLorenzo A, Mitchell J, **Martinelli S**, McEvoy M, Moran K, Stier G, Gallagher C, Burden A, Bowe E, Schell R. Faculty and Resident Perceptions of Anesthesiology Milestones: Do We Share a Similar Mental Model of Milestones Achievement? Association of University Anesthesiologists Annual Meeting. May 2016; San Francisco, CA.
21. Karenz A, Barrick B, **Martinelli S**, Kumar P, Haithcock B, Teeter E. Management of a Patient with Kartagener's Disease for Bilateral Orthotopic Lung Transplantation. Society of Cardiovascular Anesthesiologists Annual Meeting. April 2016; San Diego, CA.
22. Berry B, Marino M, **Martinelli S**, Kumar P. Intracardiac Thrombus Formation with Subsequent Left Ventricular Dysfunction in a Patient Undergoing Aortic Valve Replacement for Aortic Stenosis. Society of Cardiovascular Anesthesiologists Annual Meeting. April 2016; San Diego, CA.
23. Isaak R, Stiegler M, **Martinelli S**, Kolarczyk L, Arora H. Mixed-fidelity Simulation for Assessment of ACGME Milestones and ABA Applied Exam Preparation. American Society of Anesthesiologists Annual Meeting. October 2015; San Diego, CA.
24. El-Amraoui A, Kumar P, **Martinelli SM**. A Unique Case of Airleak in One Lung Ventilation. Society of Cardiovascular Anesthesiologists Annual Meeting. April 2015; Washington DC.

25. Judd BJ, **Martinelli SM**, Arora H. Team-based Approach to Achieving Competency in Practice-Based Learning and Improvement. Society for Education in Anesthesia Spring Annual Meeting. May 2014; Boston, MA.
26. Penwarden AA, Mayer DC, **Martinelli SM**. Assessing the Competency of Anesthesiology Interns: The Challenge of the Milestones. Society for Education in Anesthesia Spring Annual Meeting. May 2014; Boston, MA.
27. **Martinelli SM**, DiLorenzo AN, Mayer DC, Bowe EA, Arora H, Zvara DA, Schell RM. Flipped Classroom Preferred to Traditional Classroom in Resident Education. Association of University Anesthesiologists 61<sup>st</sup> Annual Meeting. April 2014; Stanford, CA. Society for Education in Anesthesia Spring Annual Meeting; Boston, MA. American Society of Anesthesiologists Annual Meeting. October 2014; New Orleans, LA.
28. Asgarian C, **Martinelli SM**, Kumar PA. Partial Anomalous Hepatic Venous Return: A Systematic Intraoperative Exclusion of Other Serious Diagnoses. Society of Cardiovascular Anesthesiologists 36<sup>th</sup> Annual Meeting. March 2014; New Orleans, LA.
29. Stevens J and **Martinelli SM**. Palliative Splenectomy in a Patient with Myelofibrosis and Severe Symptomatic Anemia Secondary to Hemolysis and Splenic Sequestration. American Society of Anesthesiologists Annual Meeting. October 2013; San Francisco, CA.
30. Berry J, Dalal N, Kumar PA, Stansfield W, **Martinelli SM**. Left Atrial Dissection Secondary to Coronary Sinus Cannulation: Evaluation, Evolution, and Treatment. American Society of Anesthesiologists Annual Meeting. October 2013; San Francisco, CA.
31. Ferrero NA, Teeter EG, Arora H, **Martinelli SM**, Kolarczyk LM, Bortsov AV, Zvara DA, Kumar PA. Simulator Training Enhances Resident Performance in Transesophageal Echocardiography. Society of Critical Care Anesthesiologists Annual Meeting. October 2011; San Francisco, CA.
32. Penwarden A, **Martinelli SM**. Bronchoscopy Simulation: Online Learning Tool vs. Hands on Simulator. North Carolina Society for Anesthesiologists Annual Meeting. September 2013; Asheville, NC.
33. Joseph J, Terry C, Waller E, Bortsov A, Zvara DA, Mayer DC, **Martinelli SM**. Enhancement of Anesthesiology In-Training Exam Performance with Implementation of an Academic Improvement Policy. Society for Education in Anesthesia Annual Meeting. June 2013; Salt Lake City, UT.
34. Teeter E, Veeramachaneni N, **Martinelli SM**. Tracheal Resection Using Cross-Table Ventilation After Transmediastinal Gunshot Wound. 2<sup>nd</sup> Annual Thoracic Anesthesia Symposium. April 2013; Miami, FL.
35. Aldawoodi N, **Martinelli SM**. Cardiac Tamponade in the PACU. American Society of Anesthesiologists Annual Meeting. October 2012; Washington DC.
36. **Martinelli, SM**, Mayer, DC, Viera, AJ, McGraw, KA, Zvara, DA. Novel Curriculum for Anesthesiology PGY-1s: Academic Medicine Rotation. Society for Education in Anesthesia Annual Meeting. June 2012; Milwaukee, WI.
37. Monroe H, Coombs R, Miller N, Bortsov A, Salo-Coombs V, **Martinelli SM**. Assessing the Efficacy of a Regional Anesthesia Workshop for Anesthesiology Residents. American Society of Regional Anesthesia Annual Meeting. May 2011; Las Vegas, Nevada. North Carolina Society of Anesthesiologists Annual Meeting. September 2010; Pinehurst, NC.
38. Brandon MW, Feins RH, Ben-Or S, **Martinelli SM**. The Use of an Endotracheal Tube Introducer in a Tracheal Resection. Society of Cardiovascular Anesthesiologists Annual Meeting. April 2010; New Orleans, LA.

39. **Martinelli SM**, Phillips-Bute BG, Shaw A, Stafford-Smith M, Patel UD, Milano CA, Swaminathan M. Disproportionate Increase in Acute Renal Failure Associated with Cardiac Transplantation in the United States. Society of Cardiovascular Anesthesiologists Annual Meeting. June 2008; Vancouver, Canada.

#### REFEREED OTHER PRODUCTS OF SCHOLARSHIP:

1. **Martinelli S**, Isaak R. (2019). AMB OSCE 1: Informed Consent for a Regional Block. Anesthesia Education Toolbox: <https://www.anesthesiatoolbox.com/docs/DOC-4518> Published 04/11/2019.

#### DIGITAL AND OTHER NOVEL FORMS OF SCHOLARSHIP

1. **Martinelli SM**, Chen F, Chidgey BA, Zvara DA, Isaak RS. Simulation Exercise Improved Family Understanding and Support of Anesthesia Providers. STEPS Forward. April 2, 2020. Accessed April 9, 2020. <https://edhub.ama-assn.org/steps-forward/module/2763263>

#### OTHER

##### *Book/Media Reviews*

1. **Martinelli SM**, DiLorenzo A, Schell R. Book review of Stoelting's Pharmacology & Physiology in Anesthetic Practice 5<sup>th</sup> Ed (2015). Anesth Analg. 2015 121(6):1674-1675.
2. Grichnik KP, **Martinelli S**. Review of Web Bronchoscopy. Anesth Analg. 2008 107: 1761-1762.

##### *Newsletters*

1. **Martinelli SM**. Educational Advisory Board Update. Association of University Anesthesiologists Update Newsletter. Spring 2023.
2. **Martinelli SM**. Educational Advisory Board Report. Association of University Anesthesiologists Update Newsletter. Spring 2022.
3. Chen F, **Martinelli SM**, Isaak RS. Highlights of the SEA Fall Meeting. Society for Education in Anesthesia Newsletter. Winter 2020.
4. **Martinelli SM**, Isaak RS, Chen F. 2020 SEA Fall Meeting Preview: Advancing Your Educational Scholarship. Society for Education in Anesthesia Newsletter. Fall 2020.
5. **Martinelli SM** and Isaak RS. Take your child to work day ANESTHESIOLOGY 2019. ASA Monitor. Vol 83:9. September 2019. Pages 34-35.
6. **Martinelli SM** and McEvoy MD. The flipped classroom and resident education: it should be used. Association of University Anesthesiologists Update. Fall 2018.
7. Judd B, **Martinelli SM**, Arora H. Curriculum Highlight. A team approach to practice-based learning. Anesthesia Education. Vol 33:2. Fall 2014
8. **Martinelli, SM**. Literature Review. Age and outcomes after carotid stenting and endarterectomy: the carotid revascularization endarterectomy versus stenting trial. Society for Cardiovascular Anesthesiologists Bulletin. Vol 10:6. Dec 2011

#### TEACHING ACTIVITIES

##### Course Director:

April 2022	Spring Meeting Co-Chair Society for Education in Anesthesia Pittsburgh, PA
October 2020	Fall Meeting Chair Society for Education in Anesthesia Virtual Meeting

Martinelli, Susan

7/11-12/18	Co-Director Academic Medicine Rotation University of North Carolina Department of Anesthesiology
12/13-3/15	Co-Director Health Policy Curriculum University of North Carolina Department of Anesthesiology
9/08-2/16	Co-Director Triangle Cardiothoracic Seminars (previously Triangle TEE Conference)
Family Experience Day Director: 9/10/22	CA-1 Family Day Experience University of North Carolina Department of Anesthesiology
4/17/21	Virtual Medical Student Family Day University of North Carolina School of Medicine
8/22/20, 8/28/21	Virtual CA-1 Family Experience Day University of North Carolina Department of Anesthesiology
10/20/19	Day in the Life of an Anesthesiologist Workshop Co-Organized with Rob Isaak, DO American Society of Anesthesiologists Annual Meeting Orlando, FL
2017-2019, annually	CA-1 Family Day Experience University of North Carolina Department of Anesthesiology
4/17, 2/20	Departmental Family Experience Day University of North Carolina Department of Anesthesiology

## **LECTURES**

### **LECTURES TO MEDICAL STUDENTS:**

#### **University of North Carolina School of Medicine**

4/18, 3/19, 3/21, 3/22, 3/23	Wellness and Physician Burnout Anesthesia Bootcamp (4 <sup>th</sup> year medical students)
8/13	Introduction to Acute Care Airway Module (3 <sup>rd</sup> year medical students)
2/11	Anesthesia and the Nervous System Discussion Group (2 <sup>nd</sup> year medical students)

### **LECTURES TO RESIDENTS:**

#### **Academy of Educators, University of North Carolina**

2019	Do What You Do and Make it Scholarly, Too Co-presented with Gary Beck Dallaghan, PhD Residents as Teachers
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#### **Department of Anesthesiology, University of North Carolina**

Annually 2020-2023	Wellness in the UNC Department of Anesthesiology CA-1 Orientation
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Martinelli, Susan

Annually 2019-2022	Make It Stick Academic Medicine Rotation for Clinical Base Year Residents (PGY-1)
Annually 2018-2019	Flipping the Classroom in Medical Education Academic Medicine Rotation for Clinical Base Year Residents (PGY-1)
2016, 2018, 2020, 2022	Cardiac Tamponade and Constrictive Pericarditis CA-2/3 Board Preparatory Session
2015, 2017, 2019	Pacemakers and Internal Cardiac Defibrillators CA-2/3 Board Preparatory Session
Annually 2014-2022	Going Beyond "Great Job: Giving and Receiving Feedback Academic Medicine Rotation for Clinical Base Year Residents (PGY-1)
Annually 2014-2022	Don't Fall in the (Generation) Gap Academic Medicine Rotation for Clinical Base Year Residents (PGY-1)
2014	Don't Fall in the (Generation) Gap Workshop for CA-1-CA-3 Residents
Annually 2013-2022	Instrumentation CA-1 Board Preparatory Session
Annually 2013-2020	Review of Opioids and Benzodiazepines CA-1 Board Preparatory Session
Annually 2013-2020	Review of Inhaled Anesthetics CA-1 Board Review Preparatory Session
Annually 2013-2017	Review of Physical Properties and Ventilators CA-1 Board Preparatory Session
2013	Cardiac Tamponade Facilitator for Resident Breakout Session
2013	Deep Hypothermic Circulatory Arrest Resident Morning Conference
Annually 2012-2013	RIME Method in Medical Education Academic Medicine Rotation for Clinical Base Year Residents (PGY-1)
2012	The Convergent Procedure Facilitator for Resident Breakout Session
2012	2011 ACC/AHA Guidelines for CABG Facilitator for Resident Breakout Session
2012	Cardiac Oral Board Case Oral Board Preparation Course
Annually 2011-2017	Problem Based Learning Academic Medicine Rotation for Clinical Base Year Residents (PGY-1)
2011	Deep Hypothermic Circulatory Arrest Facilitator for Resident Breakout Session
2011	Introduction to Bloom's Taxonomy Academic Medicine Rotation for Clinical Base Year Residents (PGY-1)
2010, 2012, 2014	Lung Isolation Workshop Workshop Instructor
2010	Patient with a Pacemaker Undergoing Melanoma Excision Resident Problem Based Learning Discussion
2010	ACC/AHA Guidelines for Cardiac Patients Undergoing Non-Cardiac Surgery

	Facilitator for Resident Breakout Session
2010, 2012	One Lung Ventilation: Methods of Lung Separation Resident Morning Conference
2010	Interesting TEE Case Facilitator for Resident Breakout Session
2010	A Patient with Cardiac Disease to Undergo Non-Cardiac Surgery Resident Problem Based Learning Discussion
2009	Left Ventricular Assist Devices Resident Transesophageal Echocardiography Conference
2009	Real Time 3D Transesophageal Echocardiography Resident Morning Conference
2009	Aortic Insufficiency Resident Transesophageal Echocardiography Conference
2009	Preoperative Evaluation of the Patient with Cardiac Disease to Undergo Non-Cardiac Surgery Resident Morning Conference
2009	Aortic Dissection Resident Transesophageal Echocardiography Conference
2009	My Patient is a Jehovah's Witness: Preoperative and Perioperative Management Resident Morning Conference
2009	Invasive Monitors in Perioperative Care Resident Morning Conference
2008	Diastology Resident Transesophageal Echocardiography Conference
2008	Pulmonary Hypertension: Pathophysiology and Perioperative Management Resident Morning Conference
<b>Outside of UNC</b>	
2/22/22	Don't Fall in the (Generation) Gap The Warren Alpert Medical School of Brown University
10/13	Optimizing Problem Based Learning Vanderbilt University Department of Anesthesiology
<b>GRAND ROUNDS (UNC)</b>	
5/31/23	Residency Education Update Co-Presented with Ben Cobb MD, Emily Teeter MD, Dan Rosenkrans MD Department of Anesthesiology
4/29/22	Active Learning in Medical Education Division of Geriatrics Department of Internal Medicine (Virtual)
11/17/21	Active Learning in Medical Education Department of Internal Medicine at Wilmington (Virtual)
12/11/19	Active Learning in Medical Education Department of Surgery
7/31/19	Anesthesiology Residency at UNC: an Overview Co-Presented with Rob Isaak, DO Department of Anesthesiology

Martinelli, Susan

7/30/14                      Going Beyond “Great Job”: Giving and Receiving Feedback  
Department of Anesthesiology

2013, 2014                      Milestones and the Clinical Competency Committee  
Department of Anesthesiology

11/3/09                      Real Time 3D Transesophageal Echocardiography  
Department of Cardiology

8/12/09                      My Patient is a Jehovah’s Witness: What Should I Do?  
Department of Surgery

**GRAND ROUNDS (OUTSIDE UNC)**

2/23/22                      Active Learning in Anesthesiology Education  
Department of Anesthesiology  
The Warren Alpert Medical School of Brown University  
Providence, Rhode Island (Virtual)

2/16/22                      Active Learning in Anesthesiology Education  
Department of Anesthesiology  
Beth Israel Deaconess Medical Center  
Boston, Massachusetts (virtual)

2/2/22                      Active Learning in Anesthesiology Education  
Department of Anesthesiology  
Duke University School of Medicine  
Durham, North Carolina (Virtual)

3/3/21                      Active Learning in Anesthesiology Education  
Department of Anesthesiology  
Washington University School of Medicine  
St Louis, Missouri (Virtual)

10/27/20                      Active Learning in Anesthesiology Education  
Department of Anesthesiology  
University of Iowa Hospitals and Clinics  
Iowa City, Iowa (Virtual)

1/9/20                      Clinician Wellness Interventions: What’s the Role for Family and Friends?  
Department of Anesthesiology and Critical Care Medicine  
Children’s Hospital of Philadelphia  
Philadelphia, Pennsylvania

9/12/18                      Clinician Wellness Interventions: What’s the Role for Family and Friends?  
Department of Anesthesiology  
Rutgers New Jersey Medical School  
Newark, New Jersey

5/24/18                      Clinician Wellness Interventions: What’s the Role for Family and Friends?  
Department of Anesthesiology  
UT Health McGovern Medical School  
Houston, Texas

10/5/17                      Flipped Classroom in Anesthesia Education  
Department of Anesthesiology



Martinelli, Susan

University of Miami Miller School of Medicine  
Miami, Florida

9/29/16                      Going Beyond “Great Job”: Giving and Receiving Feedback  
Department of Anesthesiology  
Maine Medical Center  
Portland, Maine

10/4/13                      Going Beyond “Great Job”: Giving and Receiving Feedback  
Department of Anesthesiology  
Vanderbilt University  
Nashville, Tennessee

5/5/10                      Real Time 3D Transesophageal Echocardiography  
Department of Anesthesiology  
Wake Forest University  
Winston Salem, North Carolina

**CONTINUING EDUCATION LECTURES (UNC):**

11/9/21, 12/10/20                      Going Beyond “Great Job”: Resident Feedback and Evaluations  
Faculty Development Lecture Series  
Department of Anesthesiology

1/25/21, 2/14/22, 12/5/22                      Giving Feedback  
Co-Faculty with Lindsay Wilson, MD, MPH and Jennifer McEntee, MD, MPH  
Academy of Educators Teaching Workshop

3/11/20                      My Journey into Education Research  
Academy of Educators

5/9/19                      My Journey into Education Research  
Faculty Development Lecture Series  
Department of Anesthesiology

2/27/19                      Clinician Wellness Interventions: What’s the Role for Family and Friends?  
Academy of Educators

9/24/18                      The Flipped Classroom in Medical Education  
Academy of Educators

4/23/18                      Gateway to Debriefing with Good Judgement Workshop  
Co-Faculty with Mary Fey, PhD, RN, CHSE; Carol Durham, EdD, RN;  
Mark Bullard, MD, MS-HPed; Ben Cobb, MD; Kimberly Blasius, MD  
Center for Medical Simulation

5/7/14                      Flipping the Classroom  
Co-presented with: Viji Sathy, PhD  
Academy of Educators

**CONTINUING EDUCATION LECTURES (OUTSIDE UNC):**

11/11/22                      Mistakes Made/Lessons Learned

- Moderator of Program Director Panel  
Society of Academic Associations of anesthesiology and Perioperative Medicine  
Annual Meeting  
Chicago, IL
- 10/4/22 Using Cognitive Load Theory to Design Better Presentations  
Co-Presenter with Randall Schell, MD  
Association of University Anesthesiologists  
Webinar Series
- 4/9/22 From Ideas to Curricular Breakthroughs: Turning Inspiration Into Impactful  
Scholarly Work  
Co-Presenter with Dante Cerza MD, Lauren Buhl MD PhD, and John Mitchell MD  
Society for Education in Anesthesia Annual Meeting  
Pittsburgh, PA
- 11/5/21 11 Years as an APD—Joys and Regrets  
Co-Presenter with Kaitlyn Mitchell MD, Emily Peoples MD, Manuel Pardo MD  
Association of Anesthesiology Core Program Directors Annual Meeting  
Virtual
- 10/5/21 Effectiveness of Virtual versus In-Person Didactics  
Association of University Anesthesiologists  
Webinar Series
- 9/12/21 Society for Education in Anesthesia: Anesthesia Education in the Time of  
COVID  
Co-Presenter with John Mitchell MD, Julie Huffmyer MD, Sara Neves MD, and  
Fei Chen PhD  
International Anesthesia Research Society  
Virtual Education Webinar
- 4/13/21 Abstract to Publication: Turning Your Education Projects into Publishable  
Scholarship  
Co-Presenter with Lauren Buhl MD PhD, Dante Cerza MD, Tetsuro Sakai MD  
PhD, John Mitchell MD, and Viji Kurup MD  
Society for Education in Anesthesia Annual Meeting  
Virtual
- 1/28/20 Wellness and Burnout in Healthcare  
John Dilday Dental Study Club  
Durham, North Carolina
- 1/8/20 Don't Fall in the (Generation) Gap  
Faculty Development Series  
Department of Anesthesiology and Critical Care Medicine  
Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania
- 11/17/19 The Virtual Professor: Videocasting in Anesthesiology Education  
Co-Presenter with Randall Schell MD, Amy DiLorenzo MA, and Cade Cummins  
MSMIT  
Society for Education in Anesthesia Fall Meeting  
Chicago, Illinois
- 5/20/19 Panel: When the Healer is Sick: Personal Stories of Surviving Burnout  
Speaker: Why We Don't Last Longer: Burnout in the CV Anesthesiologist  
Society of Cardiovascular Anesthesiologists Annual Meeting

Chicago, Illinois

- 3/9/19 Clinician Wellness Interventions: What's the Role for Family and Friends?  
New Jersey State Society of Anesthesiology Annual Meeting  
New Brunswick, New Jersey
- 11/3/18 Clinician Wellness Interventions: What's the Role for Family and Friends?  
Society of Academic Associations of Anesthesiology and Perioperative Medicine  
Annual Meeting  
Chicago, Illinois
- 4/20/18 CA-1 Wellness Orientation and Family Experience: A Family Focused Experience  
to Enhance Wellbeing of New Anesthesia Residents  
On behalf of Chen F, Rebel A, Chidgey BA, DiLorenzo A, Isaak RS  
Society for Education in Anesthesia Annual Meeting  
Louisville, Kentucky
- 5/5/17 Panel: The Evidence Behind the "Hot" Topics  
Speaker: Flipped Classroom  
Association of University Anesthesiologists Annual Meeting  
Washington DC
- 10/23/16 Rescue TEE in the Non-Cardiac Room  
Basic Transesophageal Echocardiography Workshop  
American Society of Anesthesiologists Annual Meeting  
Chicago, Illinois
- 9/19/16 The Development of a Departmental Wellness Committee in an Academic  
Anesthesiology Department  
On behalf of: Penwarden A, Chidgey B, Enarson C, Johnson L, Nanda M,  
Dirito D, Paduchowski B, Zvara D  
International Conference on Physician Health  
Boston, Massachusetts
- 10/24/15 Rescue TEE in the Non-Cardiac Room  
Basic Transesophageal Echocardiography Workshop  
American Society of Anesthesiologists Annual Meeting  
San Diego, California
- 4/24/15 Don't Fall in the (Generation) Gap  
Co presented with: David Mayer, MD; Michael Meyers, MD; Candra Bass, MD  
Society for Education in Anesthesia Annual Meeting  
Seattle, Washington
- 10/13/14 Panel: Milestones Setting a High Bar or Barely Clearing the Hurdle?  
Speaker: A Tale of Two Limits: Upper and Lower Bounds of Assessment in  
the Milestones and NAS  
American Society of Anesthesiologists Annual Meeting  
New Orleans, Louisiana
- 10/12/14 Rescue TEE in the Non-Cardiac Room  
Basic Transesophageal Echocardiography Workshop  
American Society of Anesthesiologists Annual Meeting

New Orleans, Louisiana

- 5/14 Novel Health Policy Curriculum for Senior Residents  
Henley MD, Martinelli SM, Kalbaugh CA, Nicholson KL, Mayer DC.  
Society for Education in Anesthesia Spring Annual Meeting.  
Boston, Massachusetts
- 10/12/13 Normal and Pathologic Left Ventricle  
Basic Transesophageal Echocardiography Workshop  
American Society of Anesthesiologists Annual Meeting  
San Francisco, California
- 6/1/13 Milestones Workshop: Patient Care I  
Society for Education in Anesthesia Annual Meeting  
Salt Lake City, Utah
- 11/2/12 A Novel Curriculum for PGY-1s: Academic Medicine Rotation  
Co-presenter with Harendra Arora, MD  
Association of Anesthesiology Core Program Directors Annual Meeting  
San Francisco, California
- 10/13/12 Normal and Pathologic Left Ventricle  
Basic Transesophageal Echocardiography Workshop  
American Society of Anesthesiologists Annual Meeting  
Washington DC
- 4/28/12 Right Ventricle Case Studies  
Intermediate Transesophageal Echocardiography Workshop  
Society of Cardiovascular Anesthesiologists Annual Meeting  
Boston, Massachusetts
- 5/3/11 Optimize Your Pocket Book as well as the Image: TEE Billing Explained  
Co-presenter with Christopher A. Troianos, MD  
Problem based learning discussion  
Society of Cardiovascular Anesthesiologists Annual Meeting  
Savannah, Georgia
- 4/30/11 Right Heart Form and Function  
Intermediate Transesophageal Echocardiography Workshop  
Society of Cardiovascular Anesthesiologists Annual Meeting  
Savannah, Georgia
- 11/11/10 Evaluating Right Heart Function: From Diagnosis to Intervention  
Triangle TEE Conference  
Chapel Hill, North Carolina

Martinelli, Susan

- 6/20/10                      Management of Pulmonary Hypertension  
Carolina Refresher Lectures: Care of the Surgical Patient  
Kiawah, South Carolina
- 6/18/10                      Pacemakers and ICDs in the Operating Room  
Carolina Refresher Lectures: Care of the Surgical Patient  
Kiawah, South Carolina
- 6/17/10                      Preoperative Evaluation of the Patient with Cardiac Disease for Non-Cardiac  
Surgery  
Carolina Refresher Lectures: Care of the Surgical Patient  
Kiawah, South Carolina
- 4/26/10                      Evaluating Right Heart Function: From Diagnosis to Intervention  
Intermediate Transesophageal Echocardiography Workshop  
Society of Cardiovascular Anesthesiology Annual Meeting  
New Orleans, Louisiana
- 6/21/09                      Preoperative Evaluation of the Patient with Cardiac Disease for Non-Cardiac  
Surgery  
Carolina Refresher Lectures: Care of the Surgical Patient  
Asheville, North Carolina
- 6/19/09                      Perioperative Management of the Patient with Pulmonary Hypertension  
Carolina Refresher Lectures: Care of the Surgical Patient  
Asheville, North Carolina
- 6/18/09                      My Patient is a Jehovah's Witness: What should I do?  
Carolina Refresher Lectures: Care of the Surgical Patient  
Asheville, North Carolina
- 4/06                          Traumatic Aortic Transection: A Diagnostic Dilemma  
32<sup>nd</sup> Annual Gulf Atlantic Residents Research Conference  
Tampa, Florida

#### **MENTORSHIP EXPERIENCES:**

##### **Medical Students**

My role as a faculty mentor for medical students scholarly projects is to assist in the development and implementation of the project as well as assisting in its presentation and/or publication.

- 7/21-present      Do Professionalism Expectations Vary Based on Generation?  
Sam Belgique  
University of North Carolina, MS4
- 10/19-6/20        Does the Book *In Shock* Impact Practitioners' Reflection and Empathy?  
Christopher Pamacheche MS4  
Oakland University William Beaumont School of Medicine Embark project

### Mentorship of Residents

My role as a faculty mentor for residents is to provide guidance for preparation for the annual in training examination and written board examinations, counseling for fellowship and employment decisions, and to meet other needs of the residents as they arise.

9/18-6/21	Dr Robin Leopold
9/17-6/18	Dr Natasha Marvi
9/16-6/19	Dr Kathryn Fitzgerald
9/15-6/18	Dr Megan Henley
9/14-6/17	Dr Jessica (Hodnett) Thompson
9/13-6/16	Dr Amy Penwarden
9/12-6/15	Dr. Eva Waller
9/11-6/14	Dr. John Berry
9/10-6/13	Dr. Kasey Fiorini
9/09-6/12	Dr. John Davis
8/08-6/11	Dr. Daniel Runkle
7/09-6/10	Dr. Atif Raja

My role as a faculty mentor for scholarly projects is to assist in the development and implementation of the project as well as assisting in its presentation and/or publication.

6/16-5/17	Reducing Cost and Promoting Environmentally Sustainable Practice via Education on Proper Operating Room Waste Segregation: A Quality Improvement Project. Anita Mathew MD, Barden Berry MD, Bryan Kidd MD, Neeraj Sriram MD, Candra Bass MD, Harendra Arora MD Team Based Quality Improvement Project
11/16-12/16	Comparison in Educational Benefit Between Hands-on and Internet-based Bronchoscopy Simulators for Novice Practitioners Chris Huber MD Academic Medicine Rotation
6/15-5/16	Urinary Catheter Removal in Post-Operative Patients with Epidural Catheters Kelly Bruno MD, Drew Karenz MD, Stephen Acosta MD, Brook Chidgey MD Team Based Quality Improvement Project
7/12-3/13	Enhancement of the Anesthesia ITE Performance with Implementation of an ITE Improvement Policy Julie Joseph MD, Eva Waller MD, and Chris Terry MD Team Based Scholarly Project
11/12-12/12	Bronchoscopy Simulation: Online Learning Tool vs. Hands on Simulator Amy Penwarden MD Academic Medicine Rotation
11/11-12/11	Postoperative Ileus and Anesthesia: A Review Gabriel Rice MD Academic Medicine Rotation

My role as a mentor for faculty members is to provide guidance for promotion, sponsorship for opportunities including research projects, and to meet other needs of the faculty member as they arise.

Mentorship of Faculty

7/22-present	Dr Christine Vo University of Oklahoma Department of Anesthesiology SEA Mentorship Program
12/21-present	Dr Michael Kazior Virginia Commonwealth University Department of Anesthesiology
7/21-present	Dr Eric Zwemer UNC Department of Pediatrics
9/18-present	Dr. Fei Chen
2/17-present	Dr. Brooke Chidgey
2/17-12/22	Dr Amy Goetzinger
2/17-present	Dr Emily Teeter
2/17-6/21	Dr Maryam Jowza

**GRANTS**

10/22-9/23	E-Learning Moule for Advanced Cardiovascular Life Support (ACLS) Defibrillator Management United States Veteran Health Administration (VHA) Innovators Network; Spark-Speed-Spread Role: Collaborator, PI: Michael Kazior \$20,000
2022-2024	Bundle of Love: The Effect of Self-CARE (Compassion, Appreciation, Rest and Exercise) on Anesthesiology Resident Wellness. Foundation for Anesthesia Education and Research: Research in Education Grant Role: Co-PI, PI: Lauren Dunn, MD PhD (University of Virginia) \$100,000
2019-2022	Family Anesthesia Experience: Educating Residents and their Support Persons to Improve Relationships and Increase Wellness. Supported by the American Medical Association's Joy in Medicine Practice Transformation Initiative. Role: PI. \$50,366.80
2018-2022	The Family Experience: A Family Focused Support Intervention to Enhance Wellness in Undergraduate Medical Education. Association of American Medical Colleges GEA National Grant. Role: PI. \$10,000.
2016-2017	Implementing and Validating a Technology-based Cognitive Aid for Feedback in Line with ACGME Milestone Competencies in Anesthesiology. Kathleen Rao Educational Scholarship through University of North Carolina School of Medicine Academy of Educators. Role: PI. \$7,000.
2014-2016	Flipped Classroom Preferred Over Traditional Classroom in Resident Education



	Foundation for Anesthesia Education and Research: Research in Education Grant. Role: PI. \$100,000. 40% effort
2011-2013	PeriOperative Ischemic Evaluation-2 (POISE-2) Trial. Multicenter international study sponsored by McMasters University, Canada. Role: Site Sub-Investigator. \$120,000. 5% effort. One of top 10 recruiting international sites.
10/08-7/09	The Incidence of Thromboembolic Events in Patients with Antibodies to Heparin-PF4 after Cardiac Surgery. Rare Thrombotic Diseases Clinical Research Network. Role: Site PI. National Institutes of Health, #5-43015. \$15,000. 5% effort.

## **PROFESSIONAL SERVICE**

### **National Professional Organizations**

March 2022-present	Chair of Educational Advisory Board Association of University Anesthesiologists
March 2022-present	Communications and Website Committee Association of University Anesthesiologists
2021-present	Council Member Association of Anesthesiology Core Program Directors
6/21-2/22	Adult Cardiac Anesthesiology Milestone 2.0 Working Group Accreditation Council for Graduate Medical Education
2021-present	Associate Editor Journal of Education in Perioperative Medicine
2020-present	Committee on Educational Meetings Society for Education in Anesthesia
2020-2022	Committee on Physician Well-Being American Society of Anesthesiologists
2019-2020	Diversity Taskforce Association of University Anesthesiologists
2018-2022	Educational Advisory Board Association of University Anesthesiologists
2016-2020	Committee on Residents and Medical Students American Society of Anesthesiologists
2015-2019	Advisory Group on Physician Health and Well Being

Martinelli, Susan

	American Society of Anesthesiologists
2014-2020	Anesthesia Educational Toolbox Advisory Board Member
2014-2020	Study Group on Anesthesia Medical Education
2011-2023	Committee on Residency Curriculum Society for Education in Anesthesia
2011-2013	Newsletter Committee Society of Cardiovascular Anesthesiologists
2009	35 <sup>th</sup> Annual Gulf-Atlantic Anesthesia Resident Research Conference Faculty judge of resident and fellow presentations Miami, Florida
2006	Committee on Patient Safety and Risk Management American Society of Anesthesiologists.
2004	American Society of Anesthesiologists Resident Component House of Delegates Alternate Delegate American Society of Anesthesiologists

**Invited Reviewer**

2018-present	Anesthesia & Analgesia Practice
2017-2021	Journal of Education in Perioperative Medicine
2016-present	Anesthesia & Analgesia
2016-present	Seminars in Cardiothoracic and Vascular Anesthesia
2015-present	Journal of Cardiothoracic and Vascular Anesthesia

**University of North Carolina School of Medicine, Chapel Hill:**

8/21-10/21	Five-Year Review Committee for the Center for Aging and Health
8/21-present	Team up to Further Fixed Term Faculty (TUFFF) Working Group
7/21-present	School of Medicine Education Committee
1/21-present	Graduate Medical Education Committee
8/20-3/21	Appointments, Promotion, and Tenure Task Force
11/19-12/20	Learning Environment Committee's Graduate Medical Education Subcommittee
3/19-8/21	Wellness Committee: Scholarship Subcommittee Chair
9/18-1/23	Academy of Educators Scholarship Committee Chair
8/18-1/23	Academy of Educators Leadership Council

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8/18-8/19	Accreditation Committee: Standard 3 and 4 Sub-Committee
8/18-8/19	Faculty Affairs Well-Being Strategic Planning Committee
1/18-5/2018	Member of Search Committee for Senior Director of Development and Communications
2/17-1/18	Member of Search Committee for Physical Medicine & Rehabilitation Chair
10/17-3/18	National Doctor's Day Committee
9/15-8/21	Wellness Committee

**UNC Department of Anesthesiology Committees**

5/22-present	The Excellence in Anesthesiology at Chapel Hill Education Research (TEACHER) Lab Founder and Co-Director
7/21-present	Wellness Committee
1/21-present	Program Evaluation Committee Chair
1/21-present	Resident Clinical Competency Committee
1/20-present	Women in Anesthesia University of North Carolina Local Chapter Co-Chair and Co-Founder
12/20-present	Resident Clinical Competency Committee
10/19-present	Social Media Committee
4/19-present	Promotions and Tenure Committee
7/17-present	Consortium of Anesthesiology Patient Safety and Experiential Learning (CAPSEL)
4/17-present	Resident Support Group
6/16-9/17	Value Stream Leadership Team
6/15-6/21	Wellness Committee Chair
6/15-8/19	Resident Wellness Subcommittee Chair
9/13-7/22	Committee for the Advancement of Research
7/13-12/20	Resident Clinical Competency Committee Chair
9/12-8/17	Continuing Medical Education Committee
5/09-12/20	Program Evaluation Committee
5/09-present	Resident Recruitment Committee
3/13	Cardiac Resident Didactic Education Block Coordinator
7/11-6/13	Resident Clinical Competency Committee

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11/10	Cardiac Resident Didactic Education Block Coordinator
3/10	Thoracic Resident Didactic Education Block Coordinator
5/09-6/11	Resident Clinical Competency Committee Chair
1/09-9/09	Compensation Committee
8/08-6/11	Faculty Recruitment Committee
7/06-6/07	Chief Resident

**Diversity, Equity and Inclusion and Leadership Training:**

11/22	Career Advancement and Leadership Skills for Women in Healthcare Harvard Medical School
11/22	Leader as Coach
9/21	ACCLAIM Leadership Retreat University of North Carolina School of Medicine
3/21, 10/21	Unconscious Bias Workshop University of North Carolina
11/20	Safe Zone Training University of North Carolina

**Professional Memberships:**

Association of University Anesthesiologists  
Society for Education in Anesthesia  
American Society of Anesthesiologists  
Society of Cardiovascular Anesthesiologists  
North Carolina Society of Anesthesiologists  
International Anesthesia Research Society  
American Medical Association  
Association of Anesthesiology Core Program Directors