

CURRICULUM VITAE

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**Summary:**

I am a Harvard-trained, board-certified anesthesiologist with experience in both academic and private practice settings; skilled in education, research, innovation, leadership, and patient care. I have significant teaching experience ranging from undergraduates and medical students to residents and fellows at top tier institutions including Harvard, the University of South Florida, Florida State University, Cleveland Clinic, and Moffitt Cancer Center. Significant leadership positions include Vice Chief of Anesthesiology and Director of the Preoperative Clinic at Cleveland Clinic Martin Health and Medical Director of Enhanced Recovery after Surgery, an institution-wide, multidisciplinary endeavor, at the nationally ranked Moffitt Cancer Center. I have served as a peer reviewer within these organizations and helped develop guidelines for safe and effective anesthetic care. I hold multiple awards and have contributed to the invention of several patent-pending medical devices.

Education:

2005 - 2010 Medical Doctor (M.D.)
University of Michigan School of Medicine, Ann Arbor, MI

2000 - 2004 Bachelor of Science (B.S.) in Nuclear Engineering, Summa Cum Laude
University of Michigan, Ann Arbor, MI

Postgraduate Training:

2011 - 2014 Anesthesiology Resident
Brigham and Women's Hospital, Harvard Medical School, Boston, MA

2010 - 2011 Transitional Year Intern
St. Joseph Mercy Health System, Ann Arbor, MI

Licensure and Board Certification:

2024 - Massachusetts
2015 - 2025 Florida
2013 - 2016 Massachusetts
2015 - American Board of Anesthesiology, Maintenance of Certification in Anesthesiology

Hospital Appointments:

2024 -	Faculty Anesthesiologist	Brigham and Women's Faulkner Hospital, Harvard
2024 -	Faculty Anesthesiologist	Brigham and Women's Hospital, Harvard
2025 -	Per Diem Anesthesiologist	Boston Medical Center - Brighton, Boston University
2019 - 2024	Faculty Anesthesiologist	Moffitt Cancer Center
2020 - 2024	Medical Director, Enhanced Recovery After Surgery	Moffitt Cancer Center
2019 - 2024	Director, Regional Anesthesia	Moffitt Cancer Center
2019 - 2024	Peer Reviewer, Focused Professional Practice Evaluation	Moffitt Cancer Center
2019 - 2022	Director, Anesthesia Student Shadowing Program	Moffitt Cancer Center
2015 - 2019	Anesthesiologist	Cleveland Clinic Martin Health
2017 - 2019	Assistant Medical Director and Vice Chief of Anesthesiology	Cleveland Clinic Martin Health
2015 - 2019	Director, Preoperative Clinic	Cleveland Clinic Martin Health
2015 - 2019	Peer Reviewer, TeamHealth Patient Safety Organization	Cleveland Clinic Martin Health
2015 - 2019	Member, Qualified Clinical Data Registry and Merit-Based Incentive Payment System Development Team	Cleveland Clinic Martin Health
2014 - 2015	Anesthesiologist	Signature Healthcare Brockton
2014 - 2015	Interim Director of Obstetric Anesthesia	Signature Healthcare Brockton

Academic Appointments:

2022 - 2024	Tenured Associate Member,	Moffitt Cancer Center
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	Anesthesiology	
2022 - 2024	Associate Professor, Oncologic Sciences	University of South Florida
2019 - 2022	Assistant Member, Anesthesiology	Moffitt Cancer Center
2019 - 2022	Assistant Professor, Oncologic Sciences	University of South Florida
2015 - 2019	Clinical Assistant Professor, Anesthesiology	Florida State University College of Medicine

Other Employment:

2007 - 2008	Research Fellow	University of Michigan Department of Anesthesiology
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Honors and Awards:

2021	National Institutes of Health, National Institute of Biomedical Imaging and Bioengineering DEBUT Challenge, Steven H. Krosnick (First) Prize
2021	Jabil Innovation Technology Challenge, First Prize
2016	Doctor of the Quarter, Cleveland Clinic Martin Health
2013	Scholarship Award, Harvard Business School Healthcare Conference
2013	Scholarship Award, Anesthesiology Conference on Innovation and Entrepreneurship, Foundation for Anesthesia Education and Research
2011	Intern of the Month, St. Joseph Mercy Healthcare System
2010	Aerospace Medicine Clerkship, NASA
2002 - 2004	Department of Energy Scholarship
2002 - 2004	National Academy for Nuclear Training Scholarship
2002 - 2004	American Nuclear Society Scholarship
2000 - 2004	Angell Scholar, University of Michigan
2000 - 2004	Dean's List, University of Michigan College of Engineering
2000 - 2004	University Honors, University of Michigan
2000	Board of Regent's Merit Scholarship, University of Michigan

Professional Association Memberships:

2024 -	Massachusetts Society of Anesthesiologists
2011 -	American Society of Anesthesiologists
2016 - 2024	Florida Society of Anesthesiologists
2012 - 2020	Society for Technology in Anesthesia
2020 - 2024	American Society for Enhanced Recovery
2022 - 2024	American Society of Regional Anesthesia

Committees:

2021 - 2024	OR Steering Committee	Moffitt Cancer Center
2021 - 2024	Commendation in Surgical Excellence Committee	Moffitt Cancer Center
2021 - 2024	Perioperative Glucose Task Force	Moffitt Cancer Center
2019 - 2024	ERAS Steering Committee	Moffitt Cancer Center
2019 - 2022	Anesthesia Department of Education Committee	Moffitt Cancer Center
2017 - 2019	OR Steering Committee	Cleveland Clinic Martin Health
2017 - 2019	Medical Executive Committee	Cleveland Clinic Martin Health
2017 - 2019	Quality Improvement Committee	Cleveland Clinic Martin Health

Professional Service:

2021	Reviewer, <i>Anesthesiology</i> journal	American Society of Anesthesiologists
2017 - 2022	Legislative Affairs Committee	Florida Society of Anesthesiologists
2017 - 2020	Director, East District	Florida Society of Anesthesiologists
2017	Contributing Expert, Stoelting Conference, "Perioperative Handoffs: Achieving Consensus on How to Get it Right"	Anesthesia Patient Safety Foundation

Teaching Experience:**Postgraduate:**

2024 -	Instructor, Airway Management Course, BWH Pulmonary and Critical Care Fellowship	Harvard Medical School
2024 -	Instructor, Ultrasound-Guided Regional Anesthesia Course, BWH Anesthesiology Residency	Harvard Medical School

Medical School:

2019 - 2024	Course Instructor, BMS 6920 - Colloquium for First- and Second-Year Medical Students, Topics in Anesthesiology	Morsani College of Medicine University of South Florida
2019 - 2024	Instructor, Anesthesiology Clinical Rotation for Third- and Fourth-Year Medical Students	Morsani College of Medicine University of South Florida
2015 - 2019	Director and Instructor, Anesthesiology Rotation for Third- and Fourth-Year Medical Students	Florida State University College of Medicine

Undergraduate:

2020 - 2024	Course Mentor & Advisor, BME 4882 Biomedical Engineering Design I (Fall)/BME 4883 Biomedical Engineering Design II (HIP CPST - High Impact Practice Capstone) (Spring)	University of South Florida
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Advanced Practice Providers:

2019 - 2024	Instructor, Clinical Rotations for Student Nurse Anesthetists and Anesthesiology Assistants	Nova Southeastern University University of South Florida Barry University
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Paramedic School:

2015 - 2019	Co-Director and Instructor, Airway Management Course	Indian River State College
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Other Courses and Presentations:

7/28/23	Course Director, Ultrasound Guided Regional Anesthesiology and Vascular Access Workshop	Moffitt Cancer Center
5/8/20	Instructor, Anesthesiology and Cancer: Do We Affect Outcomes? An Overview of Onco-Anesthesia, Grand Rounds Lecture	Moffitt Cancer Center

4/27/18	Instructor, Local Anesthetic Review, Lecture	Cleveland Clinic Martin Health
9/29/17	Instructor, End Tidal CO2: Uses and Extrapolations, Lecture	Cleveland Clinic Martin Health
10/2/16	Instructor, Prevention and Management of Airway Fire, Lecture	Cleveland Clinic Martin Health
1/2015	Director, 2014 ACC/AHA Guidelines on Perioperative Evaluation and Management of Patients Undergoing Noncardiac Surgery, Multi-week Journal Club	Signature Healthcare Brockton
9/13/13	Instructor, Cardiac Testing for the Non-Cardiologist, Preoperative Medicine Seminar	Brigham and Women's Hospital Harvard
12/4/12	Co-Director, Intraoperative Awareness, Journal Club	Brigham and Women's Hospital Harvard
4/18/12	Instructor, Bier Block: Uses for Anesthesia, Orthopedic Anesthesia Seminar	Brigham and Women's Hospital Harvard
11/23/11	Instructor, Ultrasound-guided TAP Block for Postoperative Pain Management, Regional Anesthesia Seminar	Brigham and Women's Hospital Harvard
4/29/11	Instructor, Acute Zinc Phosphide Poisoning, MICU Case Report Presentation	St. Joseph Mercy Healthcare System
9/23/10	Instructor, Outpatient Management of Type II Diabetes Mellitus, Ambulatory Medicine Seminar	St. Joseph Mercy Healthcare System
7/30/09	Instructor, The Use of Stereotactic Body Radiotherapy in Treatment of Oligometastases, Radiation Oncology Seminar	University of Michigan Health System

3/19/08	Instructor, Sleep, Chronic Pain, and Metabolic Syndrome, Anesthesiology Seminar	University of Michigan Health System
1/28/08	Instructor, Poincaré Analyses for Variable Behavioral States, Anesthesiology Seminar	University of Michigan Health System

Patents:

4/18/22	<p>“Time or Tidal Volume Splitting Ventilator and Methods of Use” Inventors: Aaron Muncey, Jacob Yarinsky, Carolyn Yamamoto Alves Pinto, Abby Blocker, Heiko Enderling, and Stefano Pasetto Application Number: 18/555,600 PCT Number: PCT/US2022/025218 Patent Attorney: Matthew Burton, Meunier, Carlin, & Curfman</p>	
4/26/23	<p>“Device for Intraoperative Quantification of Blood Loss” Inventors: Aaron Muncey, Sean Carr, Pranith Reddy, Tobias Campos, Jourdan Beavers Application Number: 18/139,607 Patent Attorney: Matthew Burton, Meunier, Carlin, & Curfman</p>	

Research Support:

6/13/24	<p>“Effects of anesthetic agents on immune function and breast cancer progression” Principal Investigators: Aaron Muncey, Joel Brown, Shari Pilon-Thomas Funding Source: Florida Breast Cancer Foundation Amount Awarded: \$99,994 Status: Completed</p>	
8/15/22	<p>“Time-multiplexing for safe multi-patient co-ventilation” Principal Investigators: Heiko Enderling, Aaron Muncey Funding Source: Moffitt Department of Biomedical Engineering Amount Awarded: \$130,000 Status: Completed</p>	
7/23/20	<p>“Cancer as a Complex Adaptive System” Principal Investigators: Robert A Gatenby, Alexander R Anderson, Robert J Gillies Funding Source: NIH NCI - 3U54CA193489-05S5 Amount Allocated: \$40,000 Status: Completed</p>	

Peer-Reviewed Publications:

1. Nguyen D, Le MHN, Le TQ, Charles-Okezie C, Diaz MJ, Sabet C, Dang HT, Nguyen T, Nguyen H, Tran M, Le NQK, **Muncey A**, Huynh PK. Deep Learning-based Integrated System for Intraoperative Blood Loss Quantification in Surgical Sponges. *IEEE J Biomed Health Inform.* 2025 Sep;29(9):6342-6352. doi: 10.1109/JBHI.2024.3499852. PMID: 40030353.
2. Tang R, Letchworth K, **Muncey AR**. Enhanced Recovery Protocols in Gynecological Surgery: A Practical Review. *Journal of Gynecologic Surgery.* 2023 Dec 1; 39(6)283. <https://doi.org/10.1089/gyn.2023.0079>.
3. Abrahams D, Ibrahim-Hashim A, Ackerman RS, Brown JS, Whelan CJ, Garfinkel MB, Gatenby RA, **Muncey AR**. Immunomodulatory and pro-oncologic effects of ketamine and isoflurane anesthetics in a murine model. *PLoS One.* 2023 Oct 10;18(10):e0292492. doi: 10.1371/journal.pone.0292492. PMID: 37816047; PMCID: PMC10564181.
4. Ackerman RS, **Muncey AR**, Aldawoodi NN, Kotha R, Getting REG. Cancer Immunotherapies: What the Perioperative Physician Needs to Know. *Curr Oncol Rep.* 2022 Apr;24(4):399-414. doi: 10.1007/s11912-022-01202-6. Epub 2022 Feb 10. PMID: 35141856; PMCID: PMC9056594.
5. Aldawoodi NN, **Muncey AR**, Serdiuk AA, Miller MD, Hanna MM, Laborde JM, Garcia Getting RE. A Retrospective Analysis of Patients Undergoing Telemedicine Evaluation in the PreAnesthesia Testing Clinic at H. Lee Moffitt Cancer Center. *Cancer Control.* 2021 Jan-Dec;28:10732748211044347. PMID: 34644199; PMCID: PMC8521730.
6. Ackerman RS, Luddy KA, Icard BE, Piñeiro Fernández J, Gatenby RA, **Muncey AR**. The Effects of Anesthetics and Perioperative Medications on Immune Function: A Narrative Review. *Anesth Analg.* 2021 Sep 1;133(3):676-689. PMID: 34100781.
7. Ackerman RS, Aldawoodi NN, **Muncey AR**, Patel SY, Coughlin EC, Mhaskar RS. Intravenous versus Volatile Anesthesia and Cancer Outcomes: The Value of Precise Definitions and Pitfalls of Multivariate Analysis. *Anesth Analg.* 2021 Aug 1;133(2):e26-e27. PMID: 34257210.
8. Nahrwold DA, **Muncey AR**, Aldawoodi NN, Evans R, Hoffman JP. Rupture of an Epidural Filter Connector during Bolus Administration of Local Anesthetic: A Case Report. *BMC Anesthesiology.* 2021 May 12;21(1):143. PMID: 33980179; PMCID: PMC8114482.
9. **Muncey AR**, Aldawoodi NN, Chitneni A, Hoffman JP, Escher AR. Intraoperative Hypotension in a Patient with Antithrombin Deficiency, Bilateral Pulmonary Emboli, and Cefazolin Allergy. *Cureus* 2021 Mar; 13: (3) e13653- PMID: 33665061. PMCID: PMC7924311.

10. **Muncey AR**, Evans R, Escher AR, Nahrwold DA. Use of a Low Concentration, High Volume Erector Spinae Plane Block for Rescue Analgesia After Melanoma Resection and Axillary Sentinel Lymph Node Biopsy. *Cureus* 2021 Jan; 13: (1) e12930- PMID: 33527062. PMCID: PMC7842249.
11. **Muncey AR**, Patel SY, Whelan CJ, Ackerman RS, Gatenby RA. The Intersection of Regional Anesthesia and Cancer Progression: A Theoretical Framework. *Cancer Control* 2020 Jan; 27: (1) PMID: 33070618. PMCID: PMC7791454.
12. **Muncey AR**, Sweeney J, Hafez O. Placement of a Double-Lumen Endotracheal Tube Using a Combined Bronchoscopy and Fluoroscopy Technique: A Case Report. *AA Pract* 2020 Apr; 14: (6) e01198- PMID: 32784316.
13. **Muncey AR**, Saulles AR, Koch LG, Britton SL, Baghdoyan HA, Lydic R. Disrupted sleep and delayed recovery from chronic peripheral neuropathy are distinct phenotypes in a rat model of metabolic syndrome. *Anesthesiology* 2010 Nov; 113: (5) 1176-1185 PMID: 20938334. PMCID: PMC2962768.
14. Yilmaz V, Demirbilek V, Gürses C, Yentür SP, Uysal S, Yapici Z, Yilmaz G, **Muncey A**, Cokar O, Onal E, Gökyiğit A, Saruhan-Direskeneli G. Interleukin (IL)-12, IL-2, interferon-gamma gene polymorphisms in subacute sclerosing panencephalitis patients. *J Neurovirol* 2007 Oct; 13: (5) 410-415 PMID: 17994425.

Book Chapters:

1. **Muncey A**, Malhotra A. Chapter 87 - Consequences of Sleep Disruption. *Murray and Nadel's Textbook of Respiratory Medicine, 6th Ed.* 2016

Oral Presentations/ Poster Presentations/Scientific Abstracts:

1. Yarinsky JG, Enderling H, **Muncey AR**. Potential Clinical Utility of Time-Multiplexed Shared Ventilation. Podium Session 2. *2022 Florida Society of Anesthesiologists Annual Meeting*. Saturday, June 11, 2022. 3:00-4:00pm. Palm Beach, FL.
2. Aldawoodi N, **Muncey A**, Serdiuk A, Miller M, Hanna M, Laborde J, Garcia-Getting R. A retrospective analysis of patients undergoing telemedicine evaluation in the PreAnesthesia Testing Clinic at H. Lee Moffitt Cancer Center. *2021 Virtual Perioperative Medicine Summit, Society for Perioperative Assessment and Quality Improvement*. March 4-6, 2021.
3. **Muncey A**, Saulles A, Baghdoyan HA, Koch LG, Britton SL, Lydic R. Rats bred for low intrinsic aerobic running capacity exhibit decreased and more disrupted sleep compared to those bred for high intrinsic aerobic running capacity. *22nd Annual Meeting of the Associated Professional Sleep Societies*. June 6-11, 2008, Baltimore, Maryland

4. **Muncey A**, Saulles A, Baghdoyan HA, Koch LG, Britton SL, Lydic R. Poincaré analyses provide novel insights into the temporal organization of sleep. *22nd Annual Meeting of the Associated Professional Sleep Societies*. June 6-11, 2008, Baltimore, Maryland
5. **Muncey A**, Saulles A, Baghdoyan HA, Koch LG, Britton SL, Lydic R. Rats bred as low intrinsic aerobic capacity runners (LCR) recover more slowly from chronic pain compared to rats bred as high intrinsic aerobic capacity runners (HCR). *FASEB J.* 2008; 22: 945-9

EXPERT NOT RETAINED