

CURRICULUM VITAE  
The Johns Hopkins University School of Medicine

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Adam Schiavi, PhD, MD, MS

02/19/2020  
(Date of this version)

## DEMOGRAPHIC AND PERSONAL INFORMATION

### Current Appointments

#### University

2009 – Present Assistant Professor, Department of Anesthesiology and Critical Care Medicine (ACCM), Johns Hopkins University School of Medicine

#### Hospital

2009 – Present Attending Anesthesiologist and Neurointensivist, Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital, Division of Neuroanesthesia and Neurocritical Care

2009 – Present Attending Anesthesiologist, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Bayview

2009 – Present Attending Neurointensivist, Department of Neurology, Johns Hopkins Bayview

### Personal Data

The Johns Hopkins School of Medicine  
Department of Anesthesiology and Critical Care Medicine  
Division of Neuroanesthesia and Neurocritical care  
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### Education and Training

#### Undergraduate

1988 – 1989 Major in Musical Performance, Indian River State College, Ft. Pierce, FL, *received full academic scholarship and changed major after first year.*

1992 Bachelor of Science, Biological Science, Florida State University, Tallahassee, FL

#### Doctoral/graduate

1993 Masters of Science, Biomedical Science, Barry University, Miami Shores, FL

2000 Doctor of Philosophy, Biochemistry and Molecular Biology, University of Miami, Miami, FL,  
*Mentor: Professor Rudolf Werner, Doctoral Dissertation accepted in 2000: Transcriptional and translational regulation of Connexin43 expression by estrogen.*

2004 Doctor of Medicine, University of Miami Miller School of Medicine, Miami, FL

#### Postdoctoral (Internship, residency, fellowship, etc.)

2000 – 2002 Postdoctoral Associate, Professor Rudolf Werner, University of Miami, Miami FL, *Discovered the internal ribosomal entry site responsible for 5'-mRNA cap-independent translation of Connexin43 mRNA in response to stress and apoptosis.*

2004 – 2005 Intern in Medicine, Mercy Medical Center, Baltimore, MD

2005 – 2008 Resident, Anesthesiology and Critical Care Medicine, Johns Hopkins Hospital, Baltimore, MD

2008 – 2009 Fellow, Neurocritical care and Neuroanesthesia, Dr. Marek Mirski, Johns Hopkins Hospital, Baltimore, MD

## Professional Experience

### Academic

- 1993 – 1994 Technical Specialist II, Department of Pediatrics, Division of Genetics and the Brain Bank for Human Development, Dr. Lisa Baumbach, University of Miami Miller School of Medicine, Miami, FL, *Responsible for general management of the laboratory, supervising undergraduates, graduate students, and physicians engaged in projects. Developed genetic tests for identifying gene mutations in human diseases – Laron Dwarfism, Myotonic Dystrophy, Muscular Dystrophy, X-Linked Amyotrophic Lateral Sclerosis, and Multiple Pituitary Deficiency Syndrome. Pioneered the use of large vertical acrylamide gels for non-radioisotopic detection of tri-nucleotide repeats and for single stranded conformational polymorphism analysis. Established the Molecular Anthropology lab studying ancient DNA samples from human archeological samples.*
- 1994 – 2000 Graduate Research Assistant, Professor Rudolf Werner, University of Miami Miller School of Medicine, Department of Biochemistry and Molecular Biology, Miami FL
- 2000 – 2002 Postdoctoral Associate, Professor Rudolf Werner, University of Miami Miller School of Medicine, Department of Biochemistry and Molecular Biology, Miami, FL
- 2008 – 2009 Instructor, Johns Hopkins Hospital, Department of Anesthesiology and Critical Care Medicine, Baltimore, MD

### Non-Academic

- 1995 – 1997 Managing Partner and Founder, Valu-Tech Computers, Miami, FL
- 1997 – 2000 Chief Executive Officer and Co-Founder, Advanced Technologies Consulting Group, Inc. Miami, FL
- 2000 Owner/Sole-Proprietor, RamRamRam.com e-commerce website, Miami, FL
- 2000 – 2007 Board of Directors, Member, Advanced Technologies Consulting Group, Inc. Miami, FL

## PUBLICATIONS:

### Original Research [OR]

1. Kobayashi H, Baumbach L, Matise TC, **Schiavi A.**, Greenberg F and Hoffman E. A gene for a severe lethal form of X-linked arthrogryposis (X-linked infantile spinal muscular atrophy) maps to human chromosome Xp11.3-q11.2. *Human Molecular Genetics* 1995;4(7):1213-1216. *Data collection and analysis, manuscript preparation and final approval*
2. Baumbach L, **Schiavi A**, Bartlett R, Perera E, Day J, Brown MR, Stein, S, Eidson, M, Parks JS, Cleveland W. Clinical, biochemical, and molecular investigations of a genetic isolate of growth hormone insensitivity (Laron's syndrome). *Journal of Clinical Endocrinology & Metabolism* 1997;82(2):444-51. *Experimental design, methods development, data collection and analysis, manuscript preparation and final approval.*
3. **Schiavi A**, Hudder A, Werner, R. Connexin43 mRNA contains a functional internal ribosome entry site. *FEBS Letters* 1999;464(3):118-22.
4. Yi J, Torres J, Azner Y, Vaidya P, **Schiavi A**, Reti I. Flumazenil Pretreatment in Benzodiazepine-Free Patients: A Novel Method for Managing Declining ECT Seizure Quality. *Journal of ECT* 2012 Sep;28(3):185-189. *Origination of concept, development of technique, manuscript preparation and final approval.*
5. Mirski M, Pandian V, Bhatti N, Haut E, Feller-Kopman D, Morad A, Haider A, **Schiavi A**, Efron, D, Ulatowski J. Safety, efficiency, and cost-effectiveness of a multidisciplinary percutaneous tracheostomy program. *Critical Care Medicine* 2012;40(6):1827-1834. *Clinical and research team, data analysis, manuscript revision, and final approval.*
6. Pandian V, Miller CR, Mirski MA, **Schiavi AJ**, Morad AH, Vaswani RS, Kalmar CL, Feller-Kopman DJ, Haut ER, Yarmus LB, Bhatti NI. Multidisciplinary team approach in the management of tracheostomy patients. *Otolaryngol Head Neck Surg.* 2012;147(4):684-91. *Clinical and research team, manuscript preparation and final approval.*
7. Yarmus L, Pandian V, Gilbert C, **Schiavi A**, Haider A, Chi A, Morad A, Miller C, Efron D, Stevens K, Gangidi S, Vaswani R, Haut E, Mirski M, Bhatti N, Feller-Kopman D. Safety and efficiency of interventional pulmonologists performing percutaneous tracheostomy. *Respiration* 2012;84(2):123-7. *Clinical and research team, manuscript revision and final approval*
8. Machado C, Estévez M, Rodríguez R, Pérez-Nellar J, Chinchilla M, Defina P, Leisman G, Carrick FR, Melillo R, **Schiavi A**, Gutiérrez J, Carballo M, Machado A, Olivares A, Pérez-Cruz N. Zolpidem Arousing Effect In Persistent Vegetative State Patients: Autonomic, EEG And Behavioral Assessment. *Curr Pharm Des.* 2014;20(26):4185-4202. *Data analysis, provision of research materials, manuscript revision, and final approval.*
9. Pandian V, Miller CR, **Schiavi AJ**, Yarmus L, Contractor A, Haut ER, Feller-Kopman DJ, Mirski MA, Morad AH, Carey JP, Hillel AT, Maragos CS, Bhatti NI. Utilization of a Standardized Tracheostomy Capping and Decannulation Protocol to Improve Patient Safety. *Laryngoscope* 2014;124(8):1794-1800. *Data analysis, manuscript preparation, revision and final approval.*

10. Pandian V, Bose S, Miller C, **Schiavi A**, Feller-Kopman D, Bhatti N, Mirski M. Exploring Quality of Life in Critically Ill Tracheostomy Patients: A Pilot Study. *ORL Head and Neck Nursing* 2014;32(1):6-15. *Clinical and research team, data analysis, manuscript revision, and final approval.*
11. Salmasi V, **Schiavi A**, Binder Z, Ruzevick J, Orr B, Burger P, Ball D, Blitz A, Koch W, Ishii M, Gallia G. Intraoperative hypertensive crisis due to a catecholamine-secreting esthesioneuroblastoma. *Head and Neck* 2014;37(6). PMID: 25352487 *Clinical team, concept design, data analysis manuscript preparation and final approval.*
12. Machado C, Estevez M, Perez-Nellar J, and **Schiavi A**. Residual vasomotor activity assessed by heart rate variability in a brain-dead case. *BMJ Case Rep.* 2015 bcr2014205677 PMID: 25833905.
13. Mark L, Herzer K, Cover R, Pandian V, Bhatti N, Berkow L, Haut E, Hillel A, Miller C, Feller-Kopman D, **Schiavi A**, Xie Y, Lim C, Holzmuller C, Ahmand M, Thomas P, Flint P, and Mirski M. Difficult Airway Response Team: a novel quality improvement program for managing hospital-wide airway emergencies. *Anesth Analg.* 2015;121(1):127-139. PMID: 26086513. *Clinical and research team, manuscript revision and final approval.*
14. Pandian V, Hutchinson C, **Schiavi A**, Feller-Kopman D, Haut E, Parsons N, Lin J, Gorbalkin C, Angamuthu P, Miller C, Mirski M, Bhatti N, and Yarmus L. Predicting the need for nonstandard tracheostomy tubes in critically ill patients. *Journal of Critical Care* 2017;37:173-178. *Clinical and research team, data analysis, manuscript preparation and final approval.*
15. Cha S, Gottschalk A, Su E, **Schiavi A**, Dodson A, Pustavoitau A. Use of Point-of-Care Ultrasonography in Simulation-Based Advanced Cardiac Life Support Scenarios. *J Anesth Perioper Med.* 2017;4:x-xx. doi: 10.24015/JAPM.2017.0058. *Scenario creation, experimental design, manuscript preparation and final approval.*
16. Estevez-Baez M, Machado C, Montes-Brown J, Jas-Garcia J, Leisman G, **Schiavi A**, Machado-Garcia A, Carricarte-Naranjo C, Carmeli E. Very High Frequency Oscillations of Heart Rate Variability in Healthy Humans and in Patients with Cardiovascular Autonomic Neuropathy. *Adv Exp Med Biol.* 2018;1070:49-70. Epub 2018/02/13. doi: 10.1007/5584\_2018\_154. PubMed PMID: 29429029. *Data interpretation, manuscript preparation and final approval.*
17. Leeper WR, Haut ER, Pandian V, Nakka S, Dodd-O J, Bhatti N, Hunt EA, Saheed M, Dalesio N, **Schiavi A**, Miller C, Kirsch TD, Berkow L. Multidisciplinary Difficult Airway Course: An Essential Educational Component of a Hospital-Wide Difficult Airway Response Program. *J Surg Educ.* 2018;75(5):1264-75. Epub 2018/04/10. doi: 10.1016/j.jsurg.2018.03.001. PubMed PMID: 29628333. *Clinical and research team, curriculum development, scenario creation, manuscript preparation and final approval.*
18. Farrokh S, Cho SM, Lefebvre AT, Zink EK, Puttgen HA\*, **Schiavi A\***. Use of intraosseous hypertonic saline in critically ill patients. *J Vasc Access.* 2018;1129729818805958. Epub 2018/10/18. doi: 10.1177/1129729818805958. PubMed PMID: 30328363. *Drs. Schiavi and Puttgen share senior authorship. Clinical team, mentorship of fellows, concept design, data analysis manuscript preparation and final approval.*
19. Estevez-Baez M, Carricarte-Naranjo C, Jas-Garcia JD, Rodriguez-Rios E, Machado C, Montes-Brown J, Leisman G, **Schiavi A**, Machado-Garcia A, Luaces CS, Arrufat-Pie E. Influence of Heart Rate, Age, and Gender on Heart Rate Variability in Adolescents and Young Adults. *Adv Exp Med Biol.* 2019;1133:19-33. Epub 2018/11/11. doi: 10.1007/5584\_2018\_292. PubMed PMID: 30414070. *Data interpretation, manuscript preparation and final approval.*
20. Estevez-Baez M, Machado, C, Garcia-Sanches B, Rodriguez, V, Alvarez-Santana R, **Schiavi A**, Leisman G, Montes-Brown J, Estevez-Carrera JM, Arrufat-Pie E. Autonomic impairment of patients in coma with different Glasgow coma score assessed with heart rate variability. *J Brain Injury* 2019;33(4): 496-516. PubMed PMID: 30755043. DOI:10.1080/02699052.2018.1553312. *Data interpretation, manuscript preparation and final approval.*
21. Daly Guris R, Duarte S, Miller C, **Schiavi A**, Toy S. Training Novice anaesthesiology trainees to speak up for patient safety. *Br J Anaesth.* 2019;122(6) 767-775. PMID: 30916005. *Simulation scenario creation, experimental design, data collection and interpretation, manuscript preparation and final approval.*
22. Kim T, **Schiavi A**, Miller C, Schwengle D. Comparison of Case-based Learning to Simulation-based Learning for teaching Malignant Hyperthermia Concepts to Anesthesiology Residents. *JEPM* IN PRESS 2019. *Simulation scenario creation, experimental design, data collection and interpretation, manuscript preparation and final approval.*
23. Miller C, Toy S, Schwengel D, Isaac G, **Schiavi A**. Development of a Simulated Objective Structured Clinical Exam for the APPLIED Certification Exam in Anesthesiology: A two-year experience informed by feedback from exam candidates. *JEPM* IN PRESS 2020

## Review Articles [RA]

1. **Schiavi A**, Papangelou A, Mirski M. Preoperative Preparation of the Surgical Patient with Neurological Disease. *Medical Clinics of North America* Sept. 93;(5): 1123-30. 2009.
2. **Schiavi A**, Papangelou A, Mirski, M Preoperative Preparation of the Surgical Patient with Neurological Disease. *Anesthesiology Clinics* Dec:27(4):779-86. 2009.

## Case Reports [CR]

1. Machado C, Perez-Nellar J, Rodriguez R, Estevez M, DeFina P, **Schiavi A**, Leisman G, Carrick F, Melillo R, and Chinchilla M. Unusual brainstem twisting revealed by MRI tractography in a patient who survived a severe traumatic upper spinal dislocation. *Funct Neurol Rehabil Ergon.* 2013;3(4):421-422. *Data interpretation, manuscript preparation, revision and final approval.*
2. Abubucker S, Reti I, Miller C, **Schiavi A**. Drug interaction with remifentanyl in a transgender man receiving exogenous testosterone and electroconvulsive therapy. *Journal of ECT.* IN PRESS FEB 2020.

## Book Chapters, Monographs [BC]

1. **Schiavi A**. Perioperative DNR/Advanced Directives. *Anesthesiology Handbook*. Heitmiller, J (ed.) Elsevier, Philadelphia 2009.
2. **Schiavi A**. Documentation in the OR *Anesthesiology Handbook*. Heitmiller, J (ed.) Elsevier, Philadelphia 2009.
3. **Miller C** and **Schiavi A**. Mind, Body and Spirit. *Core Clinical Competencies in Anesthesiology: A Case-based Approach*. Cambridge University Press. Editors Christopher J. Gallagher, Michael C. Lewis and Deborah A. Schwengel Chapter 75: pgs 425-433. 2010.
4. **Ettinger M** and **Schiavi A**. ICP monitoring. *Anesthesia Unplugged Second Edition* The McGraw-Hill companies. Editors Christopher Gallagher, Steven Ginsberg, Michael Lewis, Christine Park and Deborah Schwengel. Chapter 44; pgs 427-437. 2012.
5. **Schiavi A**, and Geocadin R. Therapeutic Hypothermia in Neurocritical Care. In: Layon A., Gabrielli A., Friedman W. (eds) Chapter 35, pgs. 743-754 *Textbook of Neurointensive Care*. Springer 2013.
6. **Schiavi A** and Miller C. A general approach to management and evaluation of the emergency airway. Chapter 4 in *Cases in Emergency Airway Management*. Cambridge University Press. Editors Berkow and Sakles. 2016

## Books, Textbooks [BK]

1. **Schiavi, A.** (2000) *Transcriptional and Translational Regulation of Connexin43 Expression by Estrogen*. Doctoral dissertation submitted to the University of Miami in 2000.

## Other Publications: Suggested Additional Subcategory Titles

### Proceedings Reports [PR]

N/A

### Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]

N/A

### Editorials [ED]

N/A

### Methods and Techniques, “How I Do It” articles [MT]

N/A

### Research Letters/White Papers/Brief Reports [RL]

N/A

### Published Curricula, Learner Assessment Tools, Educational Evaluations, Assessment/Evaluation Instruments [PC]

N/A

## Letters, Correspondence [LT]

1. Machado C, Estevez M, **Schiavi A**, Pastor I. Fulfilling the AAN Guidelines Assures Death Diagnosis and Irreversibility. *Neurology* 82:2040-2041. 2014.

## Other

1. Pacheco, M., Smith de-Cherif, T., and **Schiavi, A.** (2001) *Code of Honorable and Professional Conduct*. University of Miami School of Medicine Student Handbook.
2. Bitner, M.D., Lowe, J., **Schiavi, A.**, Centers, S., O’Connell, M. (2003) *University of Miami, School of Medicine, Department of Community Service (DOCS) Handbook*. First Edition.
3. Bitner, M.D. **Schiavi, A.**, O’Connell, M., Mechaber, A. (2003) *University of Miami, School of Medicine, Academic Societies Handbook*. Third Edition.

## Media Releases or Interviews [MR]

1. Interview for the International Business Times article “Health Care Reform 2015: Should America pay its doctors to with patients about death?” by Amy Mordrum July 2015. <https://www.ibtimes.com/health-care-reform-2015-should-america-pay-its-doctors-talk-patients-about-death-2004954>
2. Interview for Anesthesiology News article “Simulation boot camp boosts confidence of first-year anesthesiology residents” by Chase Doyle November 2017. <https://www.anesthesiologynews.com/Policy-Management/Article/11-17/%E2%80%98Simulation-Boot-Camp%E2%80%99-Boosts-Confidence-Of-First-Year-Anesthesia-Residents/45020>
3. Interview for Anesthesiology News article “Aviation management tool identifies hazardous perioperative attitudes” by Michael Vlessides November 2019. <https://www.anesthesiologynews.com/Policy-and-Management/Article/11-19/Aviation-Management-Tool-Identifies-Hazardous-Perioperative-Attitudes/56412>
4. Interview used in Medical Anesthesia Consultants Blog article “Developing a Positive Perioperative Attitude” concerning Hazardous Attitudes in the operating room. December 2019. <https://www.macmgi.com/developing-a-positive-perioperative-attitude/>

## Other Media [OM] (Videos, Websites, Blogs, Social Media, etc.)

### Television Appearances

1. Guest Speaker, “*The Woman’s Doctor*” Live television segment on “The Effects of Exercise on Osteoporosis.” WBAL Channel 11 NBC Affiliate, Baltimore, MD. August 28, 2004.

### Newspaper Articles

1. **Adam Schiavi** “Hospitals not Fortresses, Safety is important but so is an atmosphere of trust between doctors and patients.” Opinion Editorial in the Baltimore Sun Sept 29 online and in Print Sept 30, 2010. *Written in response to a JHH faculty member having been shot by a visitor in the hospital.*

### Internet Web Based Learning Modules

1. **Adam Schiavi** General Anesthesia vs. Sedation for endovascular acute stroke therapy. Toshiba America Medical Systems Medlantis CME courses. <https://tlcperplus.tams.com/learningtracks/physicians?page=10>

### Webinars

1. **Adam Schiavi** and Hedi Aguiar, Overcoming the Challenge of Timely Declaration of Brain Death. The Get Connected Webinar Series of The Organ Donation Alliance, a national organization providing leadership in organ donation and transplantation. August 2019.

## EXTRAMURAL Funding

### Research Extramural Funding

N/A

### Educational Extramural Funding

N/A

### Clinical Extramural Funding

Previous

- |             |   |
|-------------|---|
| 2002        | 28 <sup>th</sup> Annual Eastern Atlantic Student Research Forum, “Molecular Medicine”<br>Identification number: N/A<br>Sponsor: American Medical Association Foundation<br>Total direct cost: \$5000<br>Role: Co-Principle Investigator <i>Wrote grant supporting the conference with a regional draw from medical and graduate schools from the Eastern Seaboard.</i>  |
| 2003 – 2007 | Title: University of Miami School of Medicine Department of Community Service (DOCS) – South Miami Student Clinic.<br>Identification number: N/A<br>Sponsor: Association of American Medical Colleges/Pfizer Medical Humanities Initiative<br>Total direct cost: \$30,000<br>Role: Co-Principle Investigator <i>Wrote grant and was co-PI while at University of Miami. After graduation, the PI became the Dean of Medical Education and the program got permanent funding from an endowment in 2007 to continue and expand the project.</i> |

## System Innovation or Quality Improvement Extramural Funding

N/A

## Other Extramural Funding, including philanthropy

Previous

2013 – 2014 Cultural, Clinical and Scientific exchange in the neurosciences between the United States and Cuba.

Identification number N/A

Sponsor: Medical Education Cooperation with Cuba (MEDICC) Foundation

Total direct cost: \$25,000

Role: Principle Investigator

2015 – 2016 Continuing efforts in Cultural, Clinical and Scientific exchange in the neurosciences between the United States and Cuba.

Identification number N/A

Sponsor: Medical Education Cooperation with Cuba (MEDICC) Foundation

Total direct cost: \$25,000

Role: Principle Investigator

## INTRAMURAL Funding

Research Intramural Funding

N/A

Educational Intramural Funding

N/A

Clinical Intramural Funding

N/A

System Innovation or Quality Improvement Intramural Funding

N/A

Other Intramural Funding

N/A

## CLINICAL ACTIVITIES

### Clinical Focus

*Anesthesia (50%) – My clinical focus is in providing perioperative anesthetic services for patients requiring the full range of neurosurgical procedures including intracranial tumor excision, cerebral aneurysm clipping, spine surgery, and intra-vascular neuroradiology procedures (60%). I also work psychiatry providing anesthesia for patients who require electro-convulsive therapy for a variety of psychiatric illness (25%) and other surgical services including ear nose and throat, trauma, general surgery and obstetrics (15%). Surgical colleagues seek out my specific expertise to care for complex patients who require specialized intra-operative neuro-monitoring, seizure locus excision, awake craniotomies; who require cardio-pulmonary bypass and/or circulatory arrest for repair of complex intracerebral vascular malformations; and who are involved in neuroscience research protocols requiring surgery. I also receive requests to provide anesthesia for perioperative teams operating in austere environments and in the Middle East managing a very high profile patient.*

*Critical Care Medicine (50%) – My clinical focus is in neuro-critical care where I care for critically ill medical and surgical neuroscience patients. My critical care responsibilities cover patients with traumatic brain injury, acute stroke, neuromuscular diseases, encephalitis/meningitis, status epilepticus, and a variety of critically ill post-operative neurosurgical patients. I have a particular clinical interest in management of end-of-life care and clinical decision making in neurologically injured patients and working with the families of these patients in decision-making. I have institutionalized my expertise in the clinical diagnosis of brain death, leading a team of experts who assist with complex cases of brain death throughout the Johns Hopkins hospital system ensuring accurate and timely diagnosis and best practices.*

### Certification

#### Medical, other state/government licensure

2004 – Present Maryland Physician's License

2009 – 2013 Maryland Permit to Dispense Prescription Drugs

2004 – Present Maryland Certification for Controlled Dangerous Substances

2004 – Present Federal Drug Enforcement Administration (DEA) Certificate



### Boards, other specialty certification

- 2004 – Present Basic Life Support (BLS)/Advanced Cardiac Life Support (ACLS)
- 2009 – 2013 Advanced Trauma Life Support (ATLS)
- 2010 – Present American Board of Anesthesiology
- 2010 – Present United Council for Neurologic Subspecialties – Board Certified Neurocritical Care
- 2013 – Present Maryland Responds Medical Reserve Corps – Status Ready Responder

### Clinical (Service) Responsibilities

- 2008 – Present Attending Anesthesiologist Johns Hopkins Hospital; 25-30 weeks per year (3.5 service days per week)
- 2009 – Present Attending Intensivist Neurosciences Critical Care Unit Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center; 16 weeks per year (7 service days per week)
- 2014 – Present Present Critical Care Consult Attending for Neurology Consult Service; up to 8 weeks per year
- 2016 – Present Present Consult Attending for the Determination of Death by Neurological Criteria Support Team; shared responsibilities with 4 person team providing 24/7/365 coverage

### Clinical Productivity (such as the annual number of patients evaluated or treated, procedures performed, tertiary referrals, wRVUs, etc.)

Academic Year	Target Clinical Days	Actual Clinical Days	Target Call	Actual Call
2014	161.7	213.8	35	68
2015	161.7	212.4	35	85.7
2016	161.7	187.1	35	65
2017	161.7	187	35	61.4
2018	161.7	177.8	35	54.5

WILL FILL IN OTHER CLINICAL PRODUCTIVITY METIRICS HERE

### Clinical Draw from outside local/regional area

*Anesthesiologists and Intensivists typically do not have a Clinical Draw of patients from outside the local/regional area due to the consulting nature of our practice but are frequently asked to consult on such patients at JHH and to travel with surgical teams outside the local area, which is reflective of reputation.*

- 11/7 – 12/13/2012 Through Johns Hopkins International I traveled as part of the perioperative team to Saudi Arabia to provide anesthesia for complex spine surgery and medically complicated postoperative critical care to the highest ranking member of the Saudi Royal Family.
- 2013 – Present Consulted on and provided anesthesia for 2-3 surgical patients per year for neurosurgical procedures from patients from Saudi Arabia, United Arab Emirates and other countries
- 2013 – Present Consulted and provided critical care for 2-3 patients per year in the neurosciences critical care unit for second opinions for disorders of consciousness/brain death diagnosis and other medical acute care neurology concerns.

### Membership in or examiner for specialty board

N/A

### Clinical Program Building / Leadership

- 2015 – Present Clinical Director 5% effort, Determination of Death by Neurological Criteria Support team (DDNCS) providing consultation and support for complicated Brain Death determination throughout the JHH system. Impact: have been asked to present about the program at numerous national and international venues leading to many contacts with people who wish to implement a similar program at their institution.

### Clinical Demonstration Activities to external audience, on or off campus

- 2015 Clinical Brain Death Exam, to medical critical care fellows from the various programs around the State of Maryland, Johns Hopkins Hospital.
- 2019 Clinical Brain Death Exam (recorded video as part of presentation), to members of the Statewide Collaborative of the Living Legacy Foundation

Development of nationally/internationally recognized clinical standard of care (*may not be published in peer-reviewed journals*):  
N/A

## EDUCATIONAL ACTIVITIES

**Educational Focus** *My educational focus centers on directing a simulation education curriculum for experiential learning of crisis and crew resource management, essential procedural skills and thought patterns essential for clinical anesthesia and critical care. Other major teaching involves neurophysiology, brain death determination, and topics in clinical ethics in anesthesia and critical care, patients with disordered consciousness, management of patients at the end of life and their families.*

### Teaching

#### Classroom instruction

##### Residents

- 2007 – 2012 Lecturer, Anesthesiology residents, *Ethics for Anesthesiologists*, ACCM resident orientation lecture series
- 2007 – 2013 Lecturer, Anesthesiology residents, *DNR in the OR: An anesthesiologist's guide to doing nothing* ACCM resident orientation lecture series given annually
- 2010 – 2011 Lecturer, Anesthesiology residents, *The normal airway: evaluation, anatomy, and application of theory and technique to real life*, ACCM Colleges education program given annually
- 2014 – Present Lecturer, Anesthesiology residents, *Introduction to neurophysiology and neuroanesthesia*, ACCM resident orientation lecture series given annually
- 2015 – Present Lecturer, ACCM senior residents, *Practical ethical considerations for anesthesiologists*, ACCM Colleges education program given annually

##### Fellows

- 2010 – Present Lecturer and simulation workshop, Neurosciences critical care Fellows *The normal airway: evaluation, anatomy, and application of theory and technique to real life*, NCCU Fellow lecture series given annually
- 2010 – 2012 Lecturer and simulation workshop, Department of Medicine Critical Care Fellows, *The normal airway: evaluation, anatomy, and application of theory and technique to real life*, Medical critical care fellow lecture series given yearly
- 2010- -2012 Lecturer, Neurosciences critical care fellows, *Neuromonitoring in the intensive care unit*, NCCU Fellow lecture series given annually
- 2010 – Present Lecturer, Neurosciences critical care fellows, *Incorporation of Bedside Ultrasound into ACLS Protocols*, NCCU Fellow lecture given annually
- 2012 – Present Lecturer, Neurosciences critical care fellows, *Ethics, Palliative Care, and End of Life Care in Neurologically Injured Patients*, NCCU fellow lecture given annually
- 2014 – Present Lecturer and simulation workshop, Neurosciences critical care fellows, *Management of the Difficult Airway and the Emergency Airway*, NCCU fellow lecture given annually
- 2018 – Present Lecturer, Neurosciences critical care fellows, *End of Life Discussions in Neurocritical Care*, NCCU Fellow lecture given annually

#### Simulation based instruction

- 2009 Confederate anesthesia and debrief attending, Multi – level multidisciplinary event, *In Situ* Difficult Airway Response Team (DART) Simulation testing the newly formed Johns Hopkins Hospital DART
- 2009 – Present Various roles as described below, Anesthesiology residents, ACCM Colleges Simulation Education Program
- Operator of *ICU double lumen tube exchange leading to pneumothorax/patient with no physiologic reserve* Performed 2009
  - Designed, developed and operated the *Hypoxia in the PACU/assemble the story*. Performed 2010, '12, '14, '16, '18
  - Designed, developed and operated the *Massive intraoperative hemorrhage in prone position/crisis management in a chaotic OR*. Performed 2010, '12, '14, '16, '18
  - Developed, operated and mentored faculty designers for *Fetal distress in asthmatic parturient leading to massive post-delivery hemorrhage/competing interests with two patients* Performed 2011, '13, '17, '19
  - Creator and Host of *Ethics Game: A pervasive game to aid with decision making in real life with complex end-of-life issues and organ donation*. Performed 2011, '16, '18 (Neuro-critical Care Fellows)
  - Operator the *ACLS update and review of cardiac arrhythmias* using simulation. Performed 2011
  - Designed, developed and operated the *Intraoperative medication mislabeling error/recognizing the intended result of your actions*. Performed 2011, '13, '15, '17



- Developed, operated and mentored faculty co-developers for *Misplaced double lumen tube intraoperatively/ developing skill with the bronchoscope*. Performed 2012, '14, '16, '18
- Designed and operated the *Difficult adult airway/familiarity with techniques and equipment*. Performed 2013, '15
- Co-creator and Host of the “*What drug did I just push?*” Game. Performed 2013, '15, '17
- Developed, operated and assisted in design of the *Malignant Hyperthermia/familiarity with rare events* simulation. Performed 2013, '15, '17
- Designed, developed and operated the *Neuroanesthesiology simulation: Management of ICP, Hemorrhage and Venous Air Embolism in patient with SAH and stress cardiomyopathy during craniotomy for aneurysm clipping*. Performed 2016, '18
- Developed, operated and mentored faculty designers for *The “Golden Hour” management of a high velocity blunt poly-trauma patient/ Resuscitation, Primary and Secondary Survey in the Trauma Bay*. Performed 2018, '20
- Co-Creator of the *Simulated bus crash mass casualty situational airway management training obstacle course*. An obstacle course involving *in situ* management of complex airway situations in 13 trauma victims involved in a simulated bus crash. Performed 2018, '20
- Developed and mentored faculty designers for *Anesthesia for sedation in Endoscopy and Ophthalmology/The shared airway*. Performed 2018
- Developed, operated, mentored Chief anesthesiology residents, *Airway Extravaganza!* 5 skills stations teaching advanced airway skills to senior residents. Performed annually 2017 – Present.
- Developed, operated mentored faculty educators, *Objective Standardized Clinical Exam (OSCE) for anesthesia certification*. Replication of the OSCE portion of the Oral Boards for Aesthesia performed for Senior residents just prior to graduation. Performed annually 2017 – Present
- Designed, operated, *Emergency Preparedness for floor codes*, CA1 and CA2 residents. Performed annually 2017 – Present
- Designed, developed and operated *Double ICU simulation, ARDS and Sepsis*. Performed 2019

- 2010 – Present Co-designer and Operator, Neurosciences critical care fellows, Acute neurological crisis in the ICU and basic airway management skills. Annual course
- 2010 – Present Confederate/debrief attending 2010-2013.  
Co-organizer, Sim Operator, Confederate/debrief attending, new faculty trainer 2013-2016.  
Director, Sim Operator, Confederate/debrief attending, new faculty trainer 2016 - Present  
Center for Immersive Simulation and Telemedicine (CISTEL) CA-1 Orientation Boot Camp, 9 scenarios over 5 days: Mainstem intubation, Lacerated endotracheal cuff, bronchospasm, inadvertent extubation, wrong-site surgery, hypovolemia/hemorrhage, bradycardia/peritoneal retraction, light anesthesia/cardiac complications, ventricular fibrillation/ACLS in the OR
- 2012 – Present Developer and Operator, Anesthesiology residents and Surgery residents, Multidisciplinary Anesthesia and Surgery Team Training (MASTT)
- *Multi-Trauma victim* – assessment, airway management, vascular access, and ACLS in the OR. Performed 2012, '14, '16, '18, '20
  - *Acute abdomen in the ICU* – Time dependent assessment of decompensating patient leading to either organizing transport to the OR for an emergency exploratory laparotomy or acute management at the bedside. Performed 2013, '15, '17, '19
  - *Hazardous Attitudes Role Playing Game* – workshop designed to identify hazardous attitudes that lead to team breakdown of team dynamics in oneself and in others then discover strategies to counteract them Performed 2018, '20.
- 2012 – 2016 Co-developer and performer, Fellows in Anesthesiology subspecialties, an authentic *ABA oral board exam simulation experience* as a *finale* to Dr. Yaster’s Oral Board Prep Course for coaching and final polishing of oral board performance using the Yaster method. Approximately 70 ABA oral board candidates participated.
- 2016 Co-developer and designer, Emergency Medicine Residents, *Simulated bus crash mass casualty airway management training obstacle course*. An obstacle course involving managing complex airway situations of a series of patients involved in a bus crash for the department of Emergency Medicine. Provided simulation experience and training on advanced situational airway techniques for 20 participants

2018 – Present Designer, developer, Graduating Interns entering CA1 class, *Introduction to airway management* Performed annually

#### Clinical instruction

2008 – Present Attending Anesthesiologist, residents, fellows, medical students, certified nurse anesthetist students, Johns Hopkins Hospital Operating Rooms. 60% of clinical OR time with learners

2008 – Present Attending Intensivist, residents, fellows, medical students, physician assistant fellows, nurse practitioner students, Neurosciences Critical Care Unit, Johns Hopkins Hospital

2012 – Present Critical Care Consult Attending for Neurology Consult Service, neurology residents, neurocritical care fellows, Johns Hopkins Hospital

#### CME instruction

##### JHMI/Regional

2013 Lecturer, residents, fellows, attending level, *Incorporation of ultrasound into ACLS protocols*, Johns Hopkins point of care ultrasound course

2013 Workshop designer and leader, residents, fellows, attending level, *Five simulation experiences for incorporating ultrasound in to ACLS protocols*, Johns Hopkins point of care ultrasound course

2016 Lecturer, residents, fellows, attending level, *Anesthesia for interventional stroke management: General anesthesia vs. conscious sedation* 7<sup>th</sup> Neurocritical care for the general and surgical intensivist course

2017 Lecturer and panelist, resident, fellow, and attending level physicians, *Case presentation and panel discussion on managing the emergent difficult airway* 4<sup>th</sup> Annual Percutaneous Tracheostomy and Advanced Airway Cadaver Course

2018 Lecturer and panelist, resident, fellow, and attending level physicians, *Case presentation and panel discussion on the emergent difficult airway and placement of tracheostomy tubes*, 4<sup>th</sup> Annual Percutaneous Tracheostomy and Advanced Airway Cadaver Course

##### National

N/A

##### International

N/A

#### Workshops /seminars

##### JHMI/Regional

2008 Lecturer, Surgical critical care fellows, *Two difficult cases for organ transplant*, Johns Hopkins multidisciplinary critical care conference

2008 – 2014 Lecturer and workshop leader, Nurse Practitioner students, *Attaining arterial vascular access at the bedside? A lesson in anatomy and technique*, Johns Hopkins School of Nursing, given annually

2009 Lecturer, Neuroscience critical care fellows, *Two difficult cases for organ transplant*, Johns Hopkins neuroscience critical care conference

2015 Workshop leader, medical critical care fellows from the State of Maryland, *The clinical brain death exam*, Living Legacy Foundation of Maryland End of Life Training Program

2017 Lecturer, multi – level, multidisciplinary participants, *Integrated traumatic brain injury scenario*, Society of Critical Care Medicine Fundamental Critical care support (FCCS), Johns Hopkins Bayview

2017 Lecturer, multi – level, multidisciplinary participants, *Integrated airway management and hypovolemic shock scenario*, Society of Critical Care Medicine Fundamental Critical care Support course (FCCS) Johns Hopkins Bayview

##### National

1994

Lecturer and discussion leader, attending physicians, *Molecular biology for Clinician*, Southeastern Regional Genetics Group meeting in Atlanta GA

##### International

2016

Lab instructor, multi – level, multidisciplinary participants, *Hands on wet lab for percutaneous tracheostomy placement*, 3<sup>rd</sup> International tracheostomy symposium of the Global Tracheostomy Collaborative, Baltimore MD. *International conference hosted by Johns Hopkins Hospital*

2017

Simulation Workshop, multi – level, multidisciplinary participants, *Managing ARDS in the ICU*, Fundamentals of Critical Care Support course All Africa Anesthesia Conference in Abuja, Nigeria.

## Mentoring

### Pre-doctoral Advisees /Mentees

N/A

### Post-doctoral Advisees /Mentees

2008 – Present	Clinical preceptor in the operating room for new anesthesiology residents during orientation period and clinical anesthesia advisor during residency for 22 residents (as of 2019)
2017	Rodrigo Daly-Guris MD, Assistant Professor Children's Hospital of Philadelphia, Mentorship in learning all aspects of the use of simulation for education and research. Presented at the Simulation in Healthcare national meeting in Los Angeles, CA 2018. Manuscript published in British Journal of Anesthesiology [OR] 21.
2017	Sarah Smith MD, Assistant Professor, Baylor College of Medicine/Texas Children's Hospital, Pediatric Cardiovascular Anesthesiology. Mentorship in designing and implementing advanced immersive simulation experiences in low resource environments. Submitted grant to the United States State Department (non-funded) for the use of high fidelity simulation training to assist in medical education in Cuba. Designed and implemented two advanced simulations for the Society of Critical Care Medicine (SCCM) Fundamental Critical Care Support (FCCS) taught at the 2017 All Africa Anesthesia Conference in Abuja, Nigeria.
2018	Shirley Duarte MD, Clinical Fellow Obstetric Anesthesia, Mentorship in learning all aspects of the use of simulation for education and research. Presented at the American Society of Anesthesiology Conference in San Diego 2018. Contribution to multiple projects and papers in preparation. [OR21].
2019	Arisa Torre MD, Graduating resident, Mentorship in learning all aspects of the use of simulation for education and research.
2019	Sabair Lee MD, Graduating resident, Mentorship in learning all aspects of the use of simulation for education and research.

### Thesis committees

N/A

### Educational Program Building / Leadership

Date	Role/percent effort, name of educational program or curriculum, any explanatory notes
2010 – 2019	Co-developer, medical and simulation advisor, faculty facilitator, 1% effort, The Living Legacy Foundation/JHH End of Life Family Meeting Simulation Training Program, Generally 4 standardized simulation experiences per year (2 brain death and 2 limiting life sustaining treatments) using professional actors as patient family members, family services representatives and bedside nurses to training critical care fellows with realistic family meeting scenarios learning to improve skills in conducting family meetings about end of life issues
2012 – Present	Creator and Co-director, 1% effort, Multidisciplinary Anesthesia and Surgery Team Training (MASTT) simulation program for developing communication between teams to accomplish common goals. Annual event.
2014 – 2016	Co-Organizer, 3 % effort, Center for Immersive Simulation and Telemedicine (CISTEL) CA-1 Orientation Boot Camp. Simulator operator, confederate/debrief attending, and training for new faculty. <i>Week long simulation training situational awareness, self-confidence, communication and basic OR skills to orienting first year anesthesiology residents.</i>
2016 – Present	Director, 10 % effort, Simulation Education for Department of Anesthesiology and Critical Care Medicine <ul style="list-style-type: none"><li>• Direct 10 faculty educators and operations for the CISTEL CA-1 orientation boot camp. Week long simulation training situational awareness, self-confidence, communication and basic OR skills to orienting first year anesthesiology residents. Over 3000 individual simulations performed since inception (as of 2019) as described above. <i>Prior to being an organizer, I have participated in this program since 2010.</i></li><li>• Direct 20 faculty educators for the ACCM Colleges Simulation program, Bi-weekly simulation and workshop training following a two year curriculum on a variety of anesthesia based experiential learning modules Over 700 group and individual simulation performed (as of 2019) as described above. <i>Prior to becoming director, I have participated in curriculum development, sim operator, confederate/debrief attending, mentor/trainer for new faculty since 2009.</i></li><li>• Serve as mentor and advisor for faculty educators and researchers in developing simulation based courses and projects and facilitate the performance of events created.</li></ul>

2017 – Present Director, ACCM CA-3 Simulation and Education Longitudinal Fellowship Rotation Program. 2 Fellows per year who spend their CA-3 year and postgraduate first year (variable) learning about all aspects of simulation education, performance and research. Participants gain experience by working alongside education leaders working in the CISTEL and ACCM Colleges Simulation program, are to have a research project related to simulation education.

#### Educational Demonstration Activities to external audiences, on or off campus

7/2019 Demonstrated the CISTEL Clinical Anesthesia Year -1 boot camp, to visiting professor studying biometric monitoring techniques and to visiting fellow studying psychometric parameters in the simulated learning environment during 3 days of CA-1 boot camp at the Johns Hopkins Simulation Center.

### RESEARCH ACTIVITIES

**Research Focus** *My research focus is currently educational studying human factors and performance using psychometrics to assess cognitive burden while learning and performing in a clinical simulated environment and task specific performance metrics to assess the effectiveness of different modalities of instruction*

#### Research Program Building / Leadership

##### Clinical Trials

- 2012 Local Principle Investigator, Smiths Medical Human Factors Trial for the Correct-Inject epidural connector product development.
- 2017 – Present Local Co-Investigator, Multi-site clinical trial ENRICH: Early MiNimally invasive Removal of IntraCerebral Hemorrhage
- 2018 – 2020 Local Principle Investigator, Multi-site clinical trial SETPOINT2: Stroke-Related Early Tracheostomy versus Prolonged Orotracheal Intubation in Neurocritical Care Trial 2. IRB00155258 PICORI funded trial
- 2017 – Present Human Performance Lab, using the simulation environment to study the optimization of human performance in the clinical environment by determining which teaching techniques or environments accelerate learning and increase performance by measuring psychometric and performance parameters

#### Research Demonstration Activities to external audience, on or off campus

N/A

#### Inventions, Patents, Copyrights

N/A

#### Technology Transfer Activities

N/A

### SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

**System Innovation Focus** *My focus is developing projects that promote safety, standardization and efficiency when dealing with patients at the end of life.*

#### System Innovation and Quality Improvement efforts within JHMI:

- 2009 – Present Participate as a clinical member and analyze emergency airway database for system improvement and research purposes.
- 2011 Co-author in developing the IMRIS OR Anesthesia Guidelines. Department of Anesthesia and Critical Care Medicine Guidelines for the safe and efficient use of IMRIS (Intraoperative MRI) capabilities in the operating room.
- 2015 – 2018 Co-Chair of the End of Life Committee for the Neurosciences Critical Care Unit
- Created the multidisciplinary committee to discuss all aspects of end of life care including challenging end of life situations involving patients in the NCCU in an effort to standardize and improve the care of patients near the end of life.
  - Interfaced with the Palliative Care department to educate staff in the NCCU about better supporting patients and families near the end of life and beyond.
  - Created the Goals of Care Checklist designed aid the NCCU team to determine defined goals of care and to continuously be reviewing those goals of care with the family and the primary specialty service and to ensure that all parties are working to advance these goals. This tool serves to maintain a consistent patient and family centered focus from week to week as new attending intensivists cycle on service.

- Created policy for terminal sedation at JHH and guidelines for transitioning patients on palliative or terminal sedation out of the intensive care unit to private floor beds.

2015 – Present Co-Director of the Determination of Death by Neurological Criteria Support Team

- A hospital wide resource team providing consultation to the neurology consultation service and the JHH intensive care units for determining death by neurological criteria (Brain Death) in patients who meet criteria in an effort to minimize the time from when a patient meets criteria for brain death testing to when a diagnosis is made.
- Created policies for standardization of the pre-brain death exam checklist, standardizing practice of brain death testing and more consistent ancillary testing when clinical brain death testing is not possible or is complicated by other factors.
- Data collection on the timing of brain death testing and analysis of inefficiencies and inconsistency in the process of diagnosing brain death – led to a significant decrease in the time elapsed between a patient meeting the criteria for brain death testing and obtaining a diagnosis, thus reducing ICU resource utilization.
- Education as to the importance of timely brain death testing speaking locally and nationally.
- Expansion to JHH affiliate hospitals providing consultation services physically (Bayview) and via a telemedicine modality (Howard County).

System Innovation and Quality Improvement efforts outside of JHMI:

N/A

System Innovation and Quality Improvement Program Building/Leadership:

N/A

## **ORGANIZATIONAL ACTIVITIES** *(in chronological order, earliest first by start date under each subcategory)*

### Institutional Administrative Appointments

University of Miami Miller School of Medicine (UMSM)

- 2000 – 2001 Committee member and co-author of UMSM Code of Honorable and Professional Conduct
- 2001 Committee member of working group on student grades and evaluations for the new curriculum
- 2002 – 2003 Committee member for the Liaison Committee on Medical Education (LCME) accreditation committee
- 2002 – 2004 Executive planning committee for the Department of Community Service (DOCS). *Established the structure of DOCS and co-authored the startup grant providing funding leading to an endowment and dramatic expansion of the scope and impact of the program*
- 2003 – 2004 Assistant Executive Director of Academic Societies Program. *Responsible for operations of the Academic Societies - 12 societies at UMSM organizing the student body into longitudinal groups to foster a culture of leadership, educational excellence, and collegiality.*

Johns Hopkins Hospital

- 2006 – 2008 House staff representative, Johns Hopkins Ethics and Consultation Service
- 2008 – 2013 Anesthesia and NCCU representative, Johns Hopkins Ethics and Consultation Service
- 2008 – 2012 Chairman, Hospital Policy Review sub-committee of the Johns Hopkins Ethics and Consultation Service. *Responsible for maintenance of hospital policies and led the committee for re-evaluation and design of the new Do-Not-Resuscitate (DNR) policy*
- 2008 – 2012 Committee member, Johns Hopkins Hospital Ethics Executive Committee. *Represented Policy sub-committee*
- 2008 – Present Committee member, ACCM residency clinical competency committee
- 2008 – Present Committee member, ACCM residency education committee
- 2009 Committee member, compensation planning committee ACCM, sub-committee on call structure
- 2010 – Present Committee member, Johns Hopkins Organ Donor Council
- 2011 – 2012 Co-Chair of the OR rules committee
- 2015 – 2018 Chair, End of Life Committee, JHH NCCU

Activities outside Johns Hopkins Hospital

- 2015 – Present Member, Living Legacy Foundation of Maryland Ethics Committee
- 2017 – Present Member, Research evaluation committee Living Legacy Foundation of Maryland
- 2019 – 2021 Member for 3 year term, Clinical Advisory Board for the Living Legacy Foundation of Maryland



## Editorial Activities

N/A

## Editorial Board appointments

N/A

## Journal peer review activities

### Starting year

2007	Journal of Critical Care Medicine
2014	Disaster Medicine and Public Health Preparedness
2015	Critical Care
2017	Journal of Education in Perioperative Medicine
2018	The Neurohospitalist
2019	Neurocritical Care

## Other peer review activities *[non medico-legal]*

N/A,

## Advisory Committees, Review Groups/Study Sections

N/A

## Professional Societies

2000 – 2006	American Academy of Family Physicians, member
2000 – 2015	American Medical Association, member
2004 – Present	American Society of Anesthesiologists, member 2018, Maryland Delegate to Legislative Session
2008 – Present	Society of Critical Care Medicine, member
2008 – Present	Neurocritical Care Society, member
2011 – Present	Society for Simulation in Healthcare, member
2011 – 2018	Society for Airway Management, member
2019	Elected to Association of University Anesthesiologists

## Conference Organizer

### JHMI/Regional/Local

2002	The 28 <sup>th</sup> Annual Eastern Atlantic Student Research Forum, “Molecular Medicine”, Co-Director, Miami, FL
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### National

2016	Third International Tracheostomy Symposium of the Global Tracheostomy Collaborative. Organizing committee member, Baltimore, MD <i>Symposium held in Baltimore but was an international conference</i>
2019	The National Donor Management Summit of the Organ Donation Alliance. Working Together: Discovering possibilities to improve donor outcomes. Organizing committee member, Atlanta, GA

### International

2013	The 6 <sup>th</sup> International Conference of the Definition of Death Network, Scientific Advisor and Consultant Havana, Cuba
2016	The 7 <sup>th</sup> International Conference of the Definition of Death Network, International Director, Havana, Cuba
2018	The 8 <sup>th</sup> International Conference of the Definition of Death Network, International Director, Havana, Cuba

## Session Chair

2015	Session moderator, The 7 <sup>th</sup> International Conference of the Definition of Death Network, Havana Cuba
2019	Session moderator, The National Donor Management Summit of The Organ Donation Alliance, Atlanta, GA
2019	Session moderator, The 5 <sup>th</sup> International Tracheostomy Symposium, Global Tracheostomy Consortium, Melbourne, Australia

## Consultantships

N/A

## RECOGNITION

### Awards, Honors

- 1986 Bronze Congressional Award, United States Congress *award given for community service*
- 1988 Silver Congressional Award, United States Congress *award given for community service*
- 1988 Academic Scholarship, United States Department of the Navy
- 1988 Academic Scholarship, Lions Club
- 1988 Full Academic Scholarship, Music Performance, Indian River State College
- 1989 – 1992 Housing Scholarship, Southern Scholarship Foundation, Florida State University
- 1992 Golden Key National Honor Society, Florida State University
- 1993 Graduated Barry University GPA4.0 Summa cum laude
- 1998 John Marsh Research Prize, excellence in research, University of Miami
- 2000 Honors Distinction, Physiology and Biophysics Cellular Biophysics, UMSM
- 2000 Honors Distinction, Physiology and Biophysics Neurophysiology, UMSM
- 2001 Research Prize for Advancement of Women's Health, UMSM
- 2004 Tuition Scholarship for "Outstanding Contributions to the Medical School, UMSM
- 2004 J.K Robinson Award for Service to the Student Body, UMSM
- 2004 Inducted into Iron Arrow Honor Society, "The Highest Honor Attained" University of Miami
- 2016 Most Interactive Teaching Award for excellence and innovation in education using simulation as a teaching tool, Johns Hopkins Department of Anesthesiology and Critical Care Medicine
- 2018 Most Innovative Teaching Award for Outstanding Intraoperative Teaching and Clinical Mentorship, Johns Hopkins Department of Anesthesiology and Critical Care Medicine
- 2019 Most Innovative Teaching Award for Outstanding Intraoperative Teaching and Clinical Mentorship, Johns Hopkins Department of Anesthesiology and Critical Care Medicine
- 2019 Innovation Award for simulation education at the All Africa Anesthesia Conference, Presented by the Global Alliance of Perioperative Professionals

### Invited Talks

#### JHMI/Regional

- 2006 Stressed? Let's Communicate... Transcriptional and translational regulation of Connexin43. ACCM research conference
- 2007 Ethics and the Anesthesiologist. ACCM lecture series "The anesthesiologist and society"
- 2007 Remote anesthesia emergencies: The lost airway. ACCM Grand Rounds Mortality and Morbidity
- 2011 *ACCM Grand Rounds*, Legal Simulation – The deposed anesthesiologist. A 3 month long parallel reality pervasive game where I was the subject of a complex simulated experience which led to legal action being taken due to an adverse outcome. This led to me being named in the simulated legal action against JHH, authentic preparation and representation by our legal department, and subsequent authentic live deposition by a local malpractice attorney during ACCM Grand Rounds
- 2015 *Keynote address*, Pre-donor Management: Maintaining the option of organ donation near the end of life. Living Legacy Foundation of Maryland Biannual Statewide Collaborative – Igniting a culture of Donation: A conference on achieving excellence in organ and tissue donation
- 2016 Ethics and the unresponsive patient. The Johns Hopkins Berman Institute of Bioethics "Ethics for Lunch" series
- 2017 Towards a bioethical framework for defining death in neurologic terms. The Johns Hopkins Berman Institute of Bioethics "Ethics for Lunch" series
- 2017 Maintaining the option of organ donation near the end of life in severely brain injured patients. The Living Legacy Foundation Provider Enrichment Series, Living Legacy Foundation of Maryland
- 2018 Issues of distrust around neurological death, organ donation and the role of Spiritual Care. The Johns Hopkins Berman Institute of Bioethics "Ethics for Lunch" series
- 2019 *Keynote Address*, Brain Death: Why it works and why it does not. The Living Legacy Foundation of Maryland Statewide Collaborative

## National

- 1994 Molecular investigations of a Bahamian genetic isolate with Laron Syndrome and its relationship to 17<sup>th</sup> century ancestral remains. Nature/Biotechnology Miami Winter Symposium, Miami, FL.
- 2001 Transcriptional and translational regulation of Connexin43. Eastern –Atlantic Student Research Forum, Miami, FL.
- 2012 General Anesthesia vs. Sedation: Pros and cons? Society of Interventional Radiology CLOTS meeting, Dallas TX
- 2017 *Grand Rounds*, A history of the management of cerebrovascular neurosurgical patients: Historical perspectives leading to current practice trends. Drexel University College of Medicine, Department of Anesthesiology at Hahnemann University Hospital, Philadelphia, PA
- 2017 Determination of Death by Neurological Criteria Support Team (DDNCS-T) ensuring system – wide timely brain death testing, The Organ Donation Alliance 2017 National Donor Management Summit: Healing more lives by maximizing every donation opportunity, Tampa, FL
- 2017 Determination of Death by Neurological Criteria Support Team (DDNCS-T) ensuring system – wide timely brain death testing, The 42<sup>nd</sup> annual meeting of the National Association of Transplant Coordinators (NATCO), St. Louis, MO
- 2017 Using high fidelity simulation to educate organ procurement organizations and hospital staff in end of life skills, The 42<sup>nd</sup> annual meeting of the National Association of Transplant Coordinators (NATCO), St. Louis, MO
- 2017 Anesthesia for intracranial mapping, American Society of Neurophysiological Monitoring (ASNM) Fall Symposium, Baltimore, MD *a national conference hosted in Baltimore*
- 2018 Anesthetic considerations for intraoperative neuro-monitoring in minimally invasive spine surgery. 2018 Annual Meeting of the American Society of Neurophysiological Monitoring, Orlando, FL
- 2020 Anesthesiology for intraoperative neuro-monitoring. American Clinical Neurophysiology Society Annual Meeting, New Orleans, LA

## International

- 2001 Transcriptional and translational regulation of Connexin43 by estrogen. International Gap Junction Conference Honolulu, HI.
- 2008 The anesthesiologist as Moral Agent: Ethical and philosophical considerations in decision making on behalf of the anesthetized patient. The 5<sup>th</sup> International Conference of the Definition of Death Network, Varadero, Cuba
- 2010 The perioperative Do-Not-Resuscitate Order. The 30<sup>th</sup> Annual Myron B. Laver International Postgraduate Course, Basel, Switzerland
- 2013 In defiance of the affirmative – Saying NO as the essence of autonomy: Patients under general anesthesia enter a unique moral state due to a lack of ability to say NO. The 6<sup>th</sup> International Conference of the Definition of Death Network, Havana, Cuba
- 2015 Treating a Person or a vessel, where do your obligations lie: Management of the potential organ donor in the peri-mortem phase of life. The 7<sup>th</sup> International Conference of the Definition of Death Network, Havana Cuba
- 2016 The Johns Hopkins Multidisciplinary Tracheostomy Program – Overview and programmatic approach 3<sup>rd</sup> International Tracheostomy Symposium, Global Tracheostomy Collaborative, Baltimore, MD *International conference hosted by Johns Hopkins Hospital*
- 2016 Who's at the Head? Anesthetic considerations for percutaneous tracheostomy, 3<sup>rd</sup> International Tracheostomy Symposium, Global Tracheostomy Collaborative, Baltimore, MD *International conference hosted by Johns Hopkins Hospital*
- 2016 Respecting patient choices: Ethical considerations, 3<sup>rd</sup> International Tracheostomy Symposium, Global Tracheostomy Collaborative, Baltimore, MD *International conference hosted by Johns Hopkins Hospital 2*
- 2016 Quality of life, end of life and ethical considerations with tracheostomy, 3<sup>rd</sup> International Tracheostomy Symposium, Global Tracheostomy Collaborative, Baltimore, MD *International conference hosted by Johns Hopkins Hospital*
- 2017 *Grand Rounds*, An International Perspective on preserving the option of organ donation for patients near the end of life. Institute of Neurology and Neurosurgery, University of Havana, Havana, Cuba
- 2017 Flumazenil pretreatment in benzodiazepine – free patients: A novel method for managing declining ECT seizure quality. BIT's 8<sup>th</sup> annual conference Neurotalk, Barcelona, Spain
- 2018 Ethical considerations in tracheostomy. The 4<sup>th</sup> International Tracheostomy Symposium and Global Tracheostomy Consortium, Dallas, TX *International conference held in the US.*

- 2018 Determination of Death by Neurological Support Team (DDNCS-T) ensuring system wide standardization and timeliness of brain death testing. The 8<sup>th</sup> International Conference of the Definition of Death Network, Havana, Cuba
- 2019 Dynamic decision making: exploring interactions between clinicians, patients, and families. The 5<sup>th</sup> International Tracheostomy Symposium, Global Tracheostomy Consortium, Melbourne, Australia
- 2019 How to fast “Trach” safer tracheostomy care everywhere. The 5<sup>th</sup> International Tracheostomy Symposium, Global Tracheostomy Consortium, Melbourne, Australia

## OTHER PROFESSIONAL ACCOMPLISHMENTS

### Oral/Podium Presentations [abstracts that were both presented orally and published]

1. **Schiavi, A.**, Bartlett, R., Brown, M., Parks, J., and Baumbach, L. Activation of a cryptic splice site in the growth hormone receptor associated with Growth Hormone Insensitivity Syndrome in a genetic isolate of Laron Syndrome. American Society of Human Genetics 1994, San Diego, CA.
2. **Schiavi, A.**, Bartlett, R., Brown, M., Stein, S., Eidson, M., Parks, J., Cleveland, W. and Baumbach, L. Preferential transcription from an activated cryptic splice site results in aberrant mRNA processing and protein truncation in a Bahamian genetic isolate of Laron Syndrome. American Society of Human Genetics, Minneapolis, MN, 1995.
3. **Schiavi, A.** and Werner, R. The induction of Connexin43 (Cx43) is biphasic and is independent of estrogen response elements. Federation of American Societies for Experimental Biology 1999, San Francisco, CA.
4. **Schiavi, A.** and Werner, R. The induction of Connexin43 (Cx43) by estrogen is dependent on the cooperative actions of the 5'-UTR and an upstream AP-1 transcriptional element, and is independent of estrogen response elements. International Gap Junction Conference 1999, Gwatt, Switzerland.
5. **Schiavi, A.**, Dutton, R., Sewell, J., and Scalea, T. Anesthesia Reverses Abnormalities in Cerebral Perfusion Detected by Brain Acoustic Monitoring. American Association for the Surgery of Trauma 2005, Atlanta, GA.
6. **Schiavi A**, Berkow L, Mark L, Miller C. Defining the difficult airway event and analyzing resource utilization of the Code and Difficult Airway Response Teams (DART) using a contingency table. Society for Airway Management 2014, Seattle, WA.
7. **Schiavi A**, Miller C, *et. al.* CT scan measurements - Predictors of specialty tracheostomy tubes Society for Airway Management 2014, Seattle, WA.
8. **Schiavi A**, Mark L, Berkow L, Miller C. Analysis of remote emergency airway management cases: Finding order in the chaos of a large database. World Airway Management Meeting (WAMM), Dublin, Ireland, 2015.
9. **Schiavi A**, Morrison B, Puttgen HA. Determination of Death by Neurological Criteria Support Team (DDNCS-T): Ensuring system-wide timely brain death testing. International Anesthesia Research Society (IARS) Annual Meeting, Washington, DC 2017
10. Miller C, Greenberg R, **Schiavi A**. The use of the Federal Aviation Administration's Crew Resource Management techniques to identify hazardous attitudes. International Anesthesia Research Society, Montreal, CA 2019.

### Posters

1. Baumbach L **Schiavi A**, Gonzalez, R, Tapley S, Moraes C, Stein S, Eidson M, Unterwood L, Cleveland W. Identification of a Bahamian genetic isolate with Laron Syndrome – Molecular investigations of the living population and its genetic relationship to 17<sup>th</sup> century ancestral remains. *Clin Res.* 1993;41(4):A789.
2. **Schiavi A**, Day J, Cleveland W, and Baumbach L. Molecular Investigations of a Bahamian genetic isolate with Laron Syndrome and its relationship to 17<sup>th</sup> century ancestral remains. *Nuc Acid Sym Series.* 1994;30:84.
3. Baumbach L, Kobayashi H, Bhaskar A, and **Schiavi A**. Recent progress in mapping the gene for X-Linked Infantile Lethal Anterior Horn Cell Disease. *Nuc Acid Sym Series* 1994;30:70.
4. Baumbach L, Kobayashi H, Hoffman E, **Schiavi A**, and Greenberg F. Identification of a candidate disease region for X-Linked Lethal Spinal Muscular-Atrophy through PCR-based automated screening. *Neurology* 1994;44(4):A221.
5. Sanchez JC, **Schiavi A**, Parks J. Abnormal pituitary development and function in three siblings of a Jamaican family: A new syndrome involving the Pit-1 gene. *Amer J Hum Genetics* 1994;55(supp3):44. Presented at the American Society of Human Genetics, Montreal, CA, 1994.
11. Perera E, **Schiavi A**, Gonzalez R, Day J, Moraes. PCR amplification and DNA-sequence analysis of ancient DNA from 400-year old human skeletal specimens: Genetic and historical perspectives. *Amer J Hum Genetics.* 1994;55(4):217. Presented at the American Society of Human Genetics, Montreal, CA, 1994.
12. Baumbach L, and **Schiavi A**. X-Linked Lethal Infantile Spinal Muscular Atrophy: From clinical description to molecular mapping. *Amer J Hum Genetics.* 1994;55(4). Presented at the American Society of Human Genetics, Montreal, CA, 1994.

13. Kobayashi H, BAumach L, Matisse TC, **Schiavi A**, Greenberg F, Hoffman EP. A gene for X-Linked Infantile Spinal Muscular-Atrophy (A severe lethal form of X-Linked Arthrogryposis) maps to XP11. 3-Q11.2. *Amer J Hum Genetics* 1995;57(4):1881. Presented at the American Society of Human Genetics, Minneapolis, MN, 1995.
14. Stepan, J. Duckworth, J. **Schiavi, A**. Morad, A.(2011) Perioperative Stroke in a Young Patient with Ehlers-Danlos Syndrome following minor abdominal surgery. American Society of Anesthesiology, Chicago, IL.
15. Salmasi V, **Schiavi A**, Orr, B, Ball D, Binder Z, and Gallia G. Intraoperative Hypertensive Crisis due to a catecholamine-secreting Esthesioneuroblastoma. North American Skull Base Society Annual Meeting 2012 Las Vegas, NV.
16. Schwengel D, **Schiavi A**, Cover K, and Mark L. The next horizon in determining the competence of anesthesiology residents: embracing the ACGME milestones project with Anesthesia Information Management Systems (AIMS). Association of University Anesthesiologists 59<sup>th</sup> annual meeting May 2012. Cleveland, OH
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[Military Service](#)

N/A

[Community Services](#)

N/A

[Humanitarian Activities](#)

N/A

[Philanthropic Activities](#)

N/A

[Other](#)

N/A