

# Curriculum Vitae

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## Training

08/1976 - 06/1978 B.S. in Zoology from Iowa State University, Ames, Iowa  
08/1979 - 06/1983 D.O. in Osteopathic Medicine from University of Osteopathic Medicine & Health Sciences, Des Moines, Iowa  
07/1983 - 06/1984 Internship in Anesthesiology from University of Iowa Hospitals & Clinics, Iowa City, Iowa  
07/1984 - 06/1986 Residency in Anesthesiology from University of Iowa Hospitals & Clinics, Iowa City, Iowa  
07/1986 - 07/1987 Fellowship in Neuroanesthesia from University of Iowa Hospitals & Clinics, Iowa City, Iowa

## Licensure and Certification

12/1983 - Present Boards, Diplomate, National Board of Medical Examiners (FLEX)  
07/1987 - 07/2006 Medical, Inactive License: Osteopathy & Surgery; Virginia #102036893 of Virginia  
07/1987 - 2010 Medical, Inactive License: Osteopathic Medicine & Surgery; Iowa #2037 of Iowa United States  
1989 - 1990 Medical, Iowa Controlled Substances Certificate #1301916  
04/1989 - Present Boards, Diplomate, American Board of Anesthesiology, #16338  
1990 - Present Medical, UPIN: B18071  
1993 - 1994 Medical, Virginia Controlled Substance Registration License # 204-34873  
1993 - 07/2016 Medical, Inactive: Licensed Physician & Surgeon - Illinois of Illinois United States (036-087890)  
1994 - 2011 Medical, Illinois Controlled Substance License of Illinois (003-36-87890-01)  
11/1994 - 11/2009 Medical, Inactive License: Osteopathic Physician: Texas of Texas (J6878)  
1999 - Present Medical, NPI: 1912959537  
2005 - 2007 Medical, Texas DPS Controlled Substance of Texas (F0090247)  
2007 - 03/2013 Medical, Inactive License: Medicine & Surgery; North Carolina #32990 of North Carolina  
10/2007 - Present Medical, License: Doctor of Osteopathy - Tennessee of Tennessee United States (DO 1886)  
02/2014 - Present Certification, Clinical Laboratory Improvement Amendments (CLIA) United States  
06/2019 - 07/2022 Medical, Federal Controlled Substances Certificate of Tennessee United States (AB2319742)

## Academic Appointments

07/1987 - 08/1990 Director, Anesthesia Research; Director, Neuroanesthesia, Portsmouth Naval Hospital (Portsmouth, Virginia)  
07/1987 - 10/1991 Director, Anesthesia Computer Systems, Anesthesiology, Portsmouth Naval Hospital (Portsmouth, Virginia)  
11/1987 - 08/1994 Permanent Staff Privileges, Anesthesiology, Portsmouth Naval Hospital (Portsmouth, Virginia)  
10/2007 - 06/2008 Assistant Professor of Clinical, Vanderbilt University (Nashville, Tennessee)  
07/2008 - Present Assistant Professor of Clinical Anesthesiology, Vanderbilt University (Nashville, Tennessee)

## Hospital Appointments

10/1984 - 11/1985 Emergency Department Physician (part-time), Midwest Emergency Medicine Outpatient Clinics (Waterloo, Iowa)

09/1985 - 09/1988	Clinical Courtesy Privileges Emergency Department Physician, Anesthesiology, Mercy Hospital (Clinton, Iowa)
09/1985 - 09/1988	Clinical Courtesy Privileges Emergency Department Physician, Jane Lamb Medical Center (Clinton, Iowa)
09/1985 - 09/1988	Clinical Courtesy Privileges Emergency Department Physician, Marshalltown Area Comm. Hospital (Marshalltown, Iowa)
07/1988 - 05/1989	Locum Tenens; Courtesy Staff Privileges, Anesthesiology, Randolph Hospital (Asheboro, North Carolina)
04/1989 - 08/1994	Intermittent Locum Tenens; Courtesy Staff Privileges, Anesthesiology, Northampton-Accomack Memorial Hospital (Nassawadox, Virginia)
04/1990 - 05/1990	Locum Tenens, Courtesy Staff Privileges, Anesthesiology, Marian Health Center (Sioux City, Iowa)
11/1991 - 08/1994	Practicing Staff Anesthesiologist, Elizabeth River Anesthesia Group (Tidewater, Virginia)
01/1992 - 08/1994	Provisional Staff Privileges, Sentara Norfolk General Hospital, Norfolk, Virginia
01/1992 - 08/1994	Provisional Staff Privileges, Anesthesiology, Portsmouth General Hospital, Portsmouth, Virginia
01/1994 - 03/1994	Locum Tenens Anesthesia Provider, Anesthesiology, CGH Medical Center (Sterling, Illinois)
09/1994 - 04/2003	Active Staff Privileges, Department Chairman, Osteopathic Medical Center of Texas, (OMCT) Fort Worth, Texas
04/2003 - 11/2007	Clinical Services; Chairman, Section of Anesthesia, Department of Surgery, Alliance Hospital, Ltd., Odessa, Texas
11/2007 - Present	Assistant Professor, Vanderbilt University Medical Center, Vanderbilt University, Nashville, TN

## Professional Organizations

1983	American Society of Anesthesiologists
1985	International Anesthesia Research Society
1987 - 2007	American Society for Regional Anesthesia
1987 - 2019	Society for Neuroscience in Anesthesia and Critical Care
1996 - 2007	Society for Cardiac Anesthesia
2009 - 2011	International Neuropsychological Society
2013	Society for Neuroscience
2014	American Association for the Advancement of Science

## Professional Activities

### Intramural

08/2008 - 02/2012	HRPP (IRB#1), Voting member of Institutional Review Board #1 for the protection of Human Subjects in Research., Member, Human Research Protection
06/2014 - Present	Anesthesia Equipment Committee, Anesthesiology, The Anesthesia Equipment Committee provides guidance for considerations of Departmental equipment evaluation and purchase., Member

### Extramural

06/2010 - 06/2011	ASA House of Delegates, Anesthesiology, Availability as a Voting Alternate Delegate to the ASA House of Delegates representing the State of Tennessee. Served as Delegate at 2010 ASA, Active Alternate Delegate
07/2010 - Present	Communications Committee, Society for Neuroscience in Anesthesia and Critical Care, Assist in communicating news, information and efforts of SNACC to its members., Committee Member
05/2011 - Present	Reviewer for Anesthesiology
06/2019 - Present	Reviewer for Pain Medicine

## Teaching Activities

08/13 - Present	Monro-Kellie, ICP & 2ndary Injury, Facilitator, 4648 TVC, Review and discussion of ICP, components of secondary injury and their relation to Monro-Kellie.
09/13 - Present	Working Through Small Holes, Facilitator, 4648 TVC, Discussion of special anesthetic considerations for neurosurgical procedures involving either endoscopic or transvascular approaches to intracranial pathology.

10/13 - Present	Functional Neurosurgery, Facilitator, 4648 TVC, Review of the various elements of functional brain surgery, including DBS, MVD, Seizure Mapping, SCS and anesthetic management. Discussions include air embolism, Non-motor Parkinson's, Essential tremor, Dystonia.
11/2007 - Present	Pharmacology of Anesthetic Adjuvants, Instructor, Main OR, Review and discussion of a variety of anesthetic adjuvants including alpha-2 agonists, lidocaine by infusion, ketamine; non-traditional importance of vagolytics, H2-antagonists, action and properties of inhalational agents and GABA mimetics.
11/2007 - Present	Ventilatory Management, Lecturer, OR, ALI/ARDS Ventilator Management; Volutrauma, Barotrauma; Laparoscopic Procedures. Cranial Procedures. Prone Positioning. Inhalational PK for Obesity.
11/2008 - Present	Dexmedetomidine: Pharmacokinetics and Pharmacodynamics, Lecturer, Discussion of PK/PD and current uses of dexmedetomidine with special emphasis on neurosurgical procedures.
06/2009 - Present	EEG & Evoked potentials: Electrophysiologic Monitoring, Instructor, Library, Discussion of the neurophysiologic basis of EEG, somatosensory and motor evoked potentials. Rationale for such monitoring during cervical and thoracic spine surgery, as well as carotid endarterectomy.
08/2009 - Present	POCD - Aging for Anesthesia, Lecturer, Light Hall, Review of neurocognitive risks of aging in relation to anesthesia and anesthetic agents.
09/2009 - Present	Intravenous Anesthetics, Lecturer, Multiple presentations of basic PK/PD of common intravenous anesthetics.
09/2009 - 06/2010	Pulmonary Physiology, Lecturer, Factors influencing respiratory function related to anesthesia.
12/2009 - Present	Neurosurgical Fluid Management, Lecturer, Management of IV fluids and types of fluids utilized during neurosurgical procedures; alterations of ICP, BBB transfer, mass effects.
01/2010 - Present	Anesthesia for DBS, Minimally Invasive and MVD, Lecturer, Anesthesia for specific neurosurgical procedures including Deep Brain Stimulation, Minimally Invasive Procedures (awake craniotomy, Gasserian ganglion injection/ablation) and Microvascular Decompression (MVD).
04/2010 - 04/0	Neurophysiology, Lecturer, Condensation of the vast realm of neurophysiology for specific anesthetic concerns relating to ICP/ measurement/management and brain relaxation.
04/2010 - 04/0	Anesthesia for Interventional Neuroradiology, Lecturer, Extended discussion of the types of interventions in the neuroradiology suite, the anesthetic problems and equipment required.
04/2010 - 04/2010	Spasmodic Dysphonia - Case Presentation, M & M Lecturer, 218 Light Hall, Case of Occiput-C3 fusion in a patient with spasmodic dysphonia, receiving Botox treatments
04/2010 - 06/2010	NSAIDs - Coagulation and Outcomes, Lecturer, VUMC Neurosurgical Spine Conference on problems, pitfalls, platelet function and planning required for the neurosurgical management of NSAIDs perioperatively.
04/2010 - 2013	Inhalational Anesthesia Basics, Lecturer, Library, Essential understanding of PK/PD, uptake, distribution and elimination of inhalational anesthetics
12/2010 - Present	Posterior Fossa Procedures, Lecturer, Basics of access to the posterior fossa with review of positioning, anesthetic considerations
03/2011 - 04/2011	Why and How?: Peri-Anesthetic Imaging of Cognitive Decline (PAICOD), Lecturer, Cognitive decline is clearly a potential after anesthesia and surgery, but little is known about what is actually going on in the brain postoperatively.
06/2011 - Present	Supratentorial Tumors, Facilitator, 2301 VUH, Pathophysiology, surgical and anesthetic management of supratentorial tumors, intracranial pressure, cerebral perfusion, autoregulation, reduction of ICP with hyperventilation, diuretics, CSF drainage.
09/2011 - Present	Electrophysiologic Monitoring, Facilitator, Library, Discussion of SSEP, MEP, EEG, BAER for neurosurgical procedures with correlation of effects of anesthetics on these modalities
10/2011 - Present	Working Through Small Holes, Facilitator, Discussion of anesthetic management for transvascular neurosurgical procedures.
04/2012 - Present	Examiner, Sim Center
05/2012 - Present	POCD and POD, Facilitator, 4, Discussion of Post-op cognitive changes per Miller - Chapter 89
08/2012 - Present	Pre-op & Neuro Positioning, Facilitator, Library, Discussion of specifics of preoperative considerations for positioning during various neurosurgical procedures
08/2012 - Present	Liquid Space-occupying Lesions, Facilitator, Library, The Liquids: space-occupying lesions of acute and slow accumulations of blood or CSF

08/2013 - Present	Monroe-Kellie, ICP, 2nd Inj, Facilitator, 4648 TVC, Review of Monroe-Kellie doctrine, components and determinants of ICP, and Mechanisms of Post-Ischemic Secondary Brain Injury.
09/2013 - 09/2013	Continuity Clinical Experience: Team-Based Care, Facilitator, Light Hall 4011, CCX seeks to instill the values and goals of interprofessional team-based care. These goals include improvement in quality, safety and access to care.
10/2013 - Present	Neuroanesthesia Didactic: Functional Neurosurgery, Facilitator, 4648 TVC, Review of various functional neurosurgical procedures, including DBS, MVD, Central & Peripheral nerve stim, VNS, Intrathecal infusion systems
10/2013 - 02/2013	CCx: Medication Reconciliation, Sm Group Facilitator, Light Hall
12/2013 - 12/2013	CCx: Quality Improvement, Small Group Facilitator, Light Hall
01/2014 - Present	Working Thru Small Holes, Facilitator, 4648 TVC, Review of anesthetic issues associated with Neurovascular and Neuroendoscopy.
01/2014 - 08/0	Neuroanesthesia Didacticso: Spine Surg & EP Monitoring, Facilitator, 48648 TVC, Discussion of modalities for monitoring the spinal cord during spine surgery, including, SSEP, MEP, EMG
01/2014 - 08/2014	Neuroanesthesia Didactics: Spine & EP Monitoring, Facilitator, 4648 TVC, Discussion of the various modalities of brain & spinal cord monitoring including SEP, MEP, VEP, BAER, EEG, including appropriate anesthetic choices to allow stable monitoring throughout the various procedures.
02/2014 - 02/2014	CCx: Systems Engineering, Small group Facilitator, Light Hall
03/2014 - Present	Space-Occupying Lesions, Facilitator, 4648 TVC, Anesthetic concerns for ICP and fluid management of patients undergoing Supratentorial Lesions
03/2014 - 03/2014	Continuity Clinical Experience: Patient Safety, Small Group Facilitator, Light Hall
06/2014 - 08/2014	Neuro Pre-op, Positioning, VAE, Facilitator, 4648 TVC, Components of H & P specific tp neuroanesthesia; special positioning for neurosurgery; risks and management of venous air embolism.
08/2014 - 08/2014	Fndations of Clin Care Delivery: Settings of Care, Sm Group Facilitator, VUSOM, Settings of Care -Seminar 1 - Describe settings in which care may be delivered within the healthcare delivery system.
10/2014 - 10/2014	CCx: Settings of Care, Sm Group Facilitator, 4011 Light Hall, Compare and contrast different care settings based on: care provided in the setting, strengths and weakness of care delivery in various settings, payment modes for that setting
11/2014 - 11/2014	CCx IDIS 5215: Transitions of Care, Sm Group Facilitator, VUSOM, Describes the Transitions that occur between various care settings, e.g., hospital to SNF, SNF to home, home to clinic, etc.
12/2014 - 12/2014	CCx IDIS 5215: Settings/Transitions Debrief, Sm Group Facilitator, VUSOM, Provide opportunity for reflection and feedback on clerkship and CCX experiences. Debrief the transitions of care assignments from Seminar 2 Provide end of semester reminders and preview of spring semester of CCX
01/2015 - 09/2015	CCx IDIS 5215: Social Determinants of Health, Sm Group Facilitator, VUSOM, Describe Social Determinants of Health, including "Allosteric Load", biological pathways subject to social stresses, upstream factors influencing health outcomes.
03/2015 - 03/2015	CCx IDIS 5215: Health Advocacy & Resources, SmGroup Facilitator, VUSOM, Health Advocacy in Clinical support of individual patients, Paraclinical support of needs parallel to the health care system, and Supraclinical health advocacy as population-based social determinants of health.
05/2015 - 05/2015	CCx IDIS 5215: Foundations of Health Care Delivery, Sm Group Facilitator, VUSOM, Recap and Debrief: Course Goals - 1. Create Self-directed learners; 2. Cultivate Respectful Professionals; 3. Integrate Knowledge with Clinical Care; 4. Prep for Safe, Effective, Pt-Centered, Timely, Efficient, Equitable Care.
08/2015 - 09/2015	Clinical Correlation Experience: Getting to Know Your Clinic, Sm Group Facilitator, Light Hall, Define team-based care and its importance with relation to the IOM Aims of Care (Safety, Efficacy, Pt-Centeredness, Cultural Sensitivity, Timeliness, Efficiency & Equity) within the framework of the Care Delivery Team Members Roles and Responsibilities.
09/2015 - 10/2015	FHD CCx Seminar IDIS 5048: Team Based & Pt-Centered Care, Sm Group Facilitator, Light Hall
10/2015 - 12/2015	FHD CCx Seminar IDIS 5048: Patient-Centered Care, Small Group Facilitator, Light Hall, 1. Debrief Team Roles and Responsibilities. Tracking Team Members through EMR 2. "Patient-Centered Care" : Definition, Barriers; vs Patient Experience
12/2015 - 01/2016	FHD CCx Seminar IDIS 5048: Pt Cent. Care & Med Rec, Small Group Facilitator, Light Hall 4011, Define Medication Reconciliation; demonstrate

Best Possible Medication History (BPMH); Document complete list w all 4 elements of script. Overcoming common barriers; MERP med error algorithm

01/2016 - 02/2016 FHD CCx Seminar IDIS 5048: Pt Education and Health Coaching, Small Group Facilitator, 419 Light Hall, Patient-centered care, education and specific health coaching skills

02/2016 - 03/2016 FHD CCx Seminar IDIS 5048: Pt Education & Health Coaching, Sm Group Facilitator, 419 Light Hall, Introduce the basics of pt-centered ed, behavior change and health coaching skills; Introduce first 2 stages of intentional behavior change (pre-contemplation, contemplation); opportunity to practice 3 key skills

03/2016 - 04/2016 FHD CCx Seminar IDIS 5048: Med Rec and Health Coaching, Sm Group Facilitator, 419 Light Hall, Recognize and categorize med errors with MERP algorithm. Identify stages of change. Demonstrate effective patient education and motivational interviewing

05/2016 - 05/2016 FHD CCx Seminar IDIS 5048: Pt Education, Health Coaching Debrief; Intro Safety, Sm Group Facilitator, Light Hall, Hickson Lecture; Introduction to patient safety, culture of safety, evaluation (Fishbone) and reporting of safety incidents (via Veritas)

06/2016 - 06/2016 FHD CCx Seminar IDIS 5048: Patient Safety Debrief; VERITAS & Wrap-Up, Sm Group Facilitator, Light Hall, Medical Students as "value added" to clinics; Incident Reporting thru VERITAS. Completed Patient Safety interviews; Fishbone Follow-up; Reporting Systems, Root Cause Analysis

07/2016 - 07/2016 Neuroanesthesia Didactic: Anesthesia For Craniotomy, Facilitator, 3161 MCE, Reading: Monro-Kellie - Chapters 1,2,5,10 from Cottrell & Young; Mini-Oral Board Review: Oral Board #4 - Neuro Trauma; Anesthesia for Craniotomy

07/2016 - 07/2016 Neuroanesthesia Didactic: Sitting Craniotomy, Facilitator, 3161 MCE, Cottrell & Young Chapters 3 & 16; Mini-Oral Board #5 - Sitting Crani 7/19/16

07/2016 - 07/2016 CA1 Lecture: Your First Crani, Facilitator, Robbins Library, Assisted Senior Resident with basics of Operative Craniotomy (7/21/16)

08/2016 - 08/2016 Neuroanesthesia Didactic: Neuroradiology, Facilitator, 3161 MCE, Cottrell & Young Chpt 13, 15, 16 (Neurovascular); Mini-Oral Board: SAH 8/18/16

08/2016 - 08/2016 Neuroanesthesia Didactic: TIA & CEA, Facilitator, 3161 MCE, Cottrell & Young - Chpts 1,2,5,19; Mini-Oral Board #2 - TIA & CEA - 8/30/16

09/2016 - 09/2016 Neuroanesthesia Didactic: Neuroanesthesia & Acute Stroke, Facilitator, 3161 MCE, Cottrell & Young - Chapt 6; Neuroradiology; SNACC Practice Quizzes 7 & 8: Neuroanesthesia & Acute Stroke - 9/20/16

09/2016 - 09/2016 Neuroanesthesia Didactics: Supratentorial Craniotomy, Facilitator, 2161 MCE, Cottrell & Young Chpts 1, 2, 5, 10; Mini-Oral Board: ICP, Sitting Position & VAE

10/2016 - 10/2016 Neuroanesthesia Didactics: TIAs & CEA, Facilitator, MCE 3161, Cottrell & Young Chpt 1,2,5,10: Monro-Kellie, ICP & Secondary Injury; Oral Board #3 - TIA & CEA

11/2016 - 11/2016 Neuroanesthesia Didactic: Functional Neurosurgery, Facilitator, 3161 MCE, 11/29/16 - Cottrell & Young Chpt 17 (Awake Crani); PBLD Functional Neurosurgery - DBS

12/2016 - 12/2016 Neuroanesthesia Didactics: Pre-op, Positioning & VAE, Facilitator, MCE 3161, Cottrell & Young Chpt 11 & 12; PBLD - Neuro Pre-op, Positioning & VAE

01/2017 - 01/2017 Neuroanesthesia Didactics: Cerebral Aneurysm, Facilitator, 3161 MCE, Cottrell & Young: Chpts 1, 6, 13; PBLD - Cerebral Aneurysm

02/2017 - 02/2017 Neuroanesthesia Didactics: Anticoagulants & Pituitary Surg, Facilitator, 3136 MCE, Cottrell & Young - Chapt 6 - Neuroradiology; Mini-Oral Board - SNACC Quizzes -17 & 18 (2/7/17)

03/2017 - 03/2017 Neuroanesthesia Didactics: TIA & CEA, Facilitator, 3161 MCE, Cottrell & Young - Chpt 3 & 18; Mini-Oral Board #2 - CEA (3/28/17)

04/2017 - 04/2017 Neuroanesthesia Didactics: Chronic Pain & ERAS, Facilitator, 3161 MCE, Cottrell & Young - Chapt 9 - Brain Tumor Management; PBLD - Chronic Pain & ERAS protocol

05/2017 - 05/2017 Neuroanesthesia Didactic: CEA, Facilitator, 3161 MCE, Cottrell & Young Chpts 7 & 20 - Evoked Potentials - Spine & Spinal Cord; Mini-Oral Board #2 CEA - Neuroanesthesia Didactics: Stroke, CEA, Facilitator, 3161 MCE, Reading - Cottrell & Young Chapters 3, 18 - Stroke (Wet & Dry); TBI, Hydrocephalus. Mini-Oral Board #3 - TIA & CEA

06/2017 - 06/2017 Neuroanesthesia Didactics: Stroke, CEA, Facilitator, 3161 MCE, Reading - Cottrell & Young Chapters 3, 18 - Stroke (Wet & Dry); TBI, Hydrocephalus. Mini-Oral Board #3 - TIA & CEA

07/2017 - 07/2017 Neuroanesthesia Didactics: Oral Board - Urgent CEA, Facilitator, 3161 MCE, Mini-oral Board of urgent open CEA

08/2017 - 08/2017 Neuroanesthesia Didactics: SNACC Practice Questions, Facilitator, 3161 MCE, SNACC Quizzes 9 & 10

08/2017 - 08/2017 Neuroanesthesia Didactics: PBLD - Pituitary, Facilitator, 3161 MCE, PBLD for Trans-sphenoidal Pituitary resection

09/2017 - 09/2017	Neuroanesthesia Didactics: TIA & CEA, Facilitator, 3161 MCE, Discussion of Transient Cerebral Ischemia and management of CEA
10/2017 - 10/2017	Neuroanesthesia Didactics: Delayed Emergence, Facilitator, 3161 MCE, Etiology and management of delayed emergence
11/2017 - 11/2017	Neuroanesthesia Didactic: PBLD Spine & Neuro Monit, Facilitator, 3161 MCE, Management of TIVA for Spine surgery with Neuro Monitoring
12/2017 - 12/2017	Neuroanesthesia Didactics: PBLD - TBI, Facilitator, 3161 MCE, Discussion of Management of Traumatic Brain Injury
01/2018 - 01/2018	Neuroanesthesia Didactics: PBLD - Delayed Emergence, Facilitator, 3161 MCE, Discussion of Etiology and Management of Delayed Emergence
01/2018 - 01/2018	Neuroanesthesia Didactic: Oral Board - Urgent CEA, Facilitator, 3161 MCE, Oral Board Stem - Emergent Open CEA
02/2018 - 03/2018	Neuroanesthesia Didactics: PBLD - Delayed Emergence, Facilitator, 3161 MCE, Discussion of Causes and Management of Delayed Emergence
03/2018 - 03/2018	Neuroanesthesia Didactics: Oral Board - Urgent CEA, Facilitator, 3161 MCE, Mini-Oral Board of Indications Management of Urgent Open CEA
03/2018 - 03/2018	Neuroanesthesia Didactics: Landmark: IHAST, Facilitator, 3161 MCE, Discussion of Landmark Article: IHAST Study
03/2018 - 03/2018	Neuroanesthesia Didactics: PBLD - Aneurysm Coiling, Facilitator, 3161 MCE, Discussion of Transvascular intracranial aneurysm coiling
04/2018 - 04/2018	Neuroanesthesia Didactics: Oral Board - Sitting Crani, Facilitator, 3161 MCE, Mini-Oral Board - Sitting Craniotomy & Air Embolism
04/2018 - 04/2018	Neuroanesthesia Didactics: PBLD - Delayed Emergence, Facilitator, MCE 3161, Discussion of Causes and Management of Delayed Emergence
05/2018 - 05/2018	Neuroanesthesia Didactics: PBLD Spine & Chronic Pain, Facilitator, 3161 MCE, Problem-Based Learning Discussion of Anesthesia for Spine Surgery in patients with Chronic Pain - Opioids
05/2018 - 05/2018	Neuroanesthesia Didactics: Landmark Article - IHAST, Facilitator, 3161 MCE, Discussion of Todd, MM, et al. Mild Intraoperative Hypothermia During Surgery for Intracranial Aneurysm
06/2018 - 06/2018	Neuroanesthesia Didactics: Spine Surgery & EP Monit, Facilitator, 3161 MCE, Discussion of TIVA anesthetic management to facilitate electrophysiologic monitoring (SEPs & MEPs)
06/2018 - 06/2018	Neuroanesthesia Didactics: Landmark Article - IHAST, Facilitator, 3161 MCE, Discussion of Todd, MM, et al. Mild Intraoperative Hypothermia During Surgery for Intracranial Aneurysm
07/2018 - 07/2018	Neuroanesthesia Didactics: PBLD - Aneurysm Coiling, Facilitator, 3161 TVC, Problem-Based Learning Discussion of anesthetic management for trans vascular cerebral aneurysm coiling
07/2018 - 08/2018	Neuroanesthesia Didactics: PBLD Aneurysm Coiling, Facilitator, 3161 MCE
07/2018 - 08/2018	Neuroanesthesia Didactics: PBLD - Aneurysm Coiling, Facilitator, 3161 MCE, Discussion of anesthetic management of neurovascular interventions
08/2018 - 08/2018	Neuroanesthesia Didactics: ISAT Landmark Article, Facilitator, 3161 MCE, Discussion of the International Subarachnoid Aneurysm Trial of acute coiling vs open clipping in the management of ruptured intracranial aneurysms
08/2018 - 08/2018	Neuroanesthesia Didactics: ISAT Landmark Article, Facilitator, 3161 TVC, Discussion of the International Subarachnoid Aneurysm Trial of aneurysm coiling vs aneurysm clipping.
08/2018 - 08/2018	Neuroanesthesia Didactics: Orientation Milestones, Facilitator, 3161 MCE, Neuroanesthesia Rotation Orientation Highlights - including Goals, Objectives and Milestones, as well as PBLD discussions, Practice Improvement, Protocols and Standardization, and accessing Spark-Learn for didactic materials.
09/2018 - 09/2018	Neuroanesthesia Didactics: PBLD - Pituitary Resection, Facilitator, 3161 MCE, Problem-Based Learning Discussion of Transnasal Transphenoidal Pituitary Mass Resection, including ramifications of Cushing's syndrome and potential complications.
10/2018 - 10/2018	Neuroanesthesia Didactics: PBLD Spine & Chronic Pain, Facilitator, 3161 MCE, Problem-Based Learning Discussion of Chronic Pain patients on drugs such as suboxone, scheduled for ERAS management of a spinal procedure.
10/2018 - 10/2018	Neuroanesthesia Didactics: PBLD - DBS, Facilitator, 3161 MCE, Problem-Based Learning Discussion of the management of Deep Brain Stimulator placement including risks and complications.
11/2018 - 2018	Neuroanesthesia Didactics: PBLD Pituitary Resection, Facilitator, 3161 MCE, Problem-Based Learning Discussion of Transnasal Transphenoidal Pituitary Mass Resection, including ramifications of Cushing's syndrome and potential complications.

12/2018 - 2018 neuroanesthesia Didactics: PBLD - TBI, Facilitator, 3161 MCE, PBLD: Perioperative Management of patient with closed head injury for Non-Neurologic procedure

02/2019 - 02/2019 Neuroanesthesia Didactics: IHAST Classic Article, Facilitator, 3161 MCE, Discussion of the landmark study of "Mild Intraoperative Hypothermia during Surgery for Intracranial Aneurysm" demonstrating no benefit from mild hypothermia in this study population.

02/2019 - 02/2019 Neuro Didactics: PBLD - Pituitary - TSS, Facilitator, 3161 MCE, Problem-Based Learning Discussion of Transnasal Transphenoidal Pituitary Mass Resection, including ramifications of Cushing's syndrome and potential complications.

04/2019 - 04/2019 Neuroanesthesia Didactics: Landmark Article - IHAST, Facilitator, 3161 MCE, Discussion of Todd, MM, et al. Mild Intraoperative Hypothermia During Surgery for Intracranial Aneurysm

04/2019 - 04/2019 Neuro Didactics: PBLD - Delayed Emergence, Facilitator, 3161 MCE, Discussion of Causes and Management of Delayed Emergence with particular attention to neurosurgical procedures where early arousal is desirable.

05/2019 - 05/2019 Neuroanesthesia Didactics: PBLD - Aneurysm Coiling, Facilitator, 3161 MCE, Problem-Based Learning Discussion of the Pre-operative Evaluation, Assessment Monitoring and Management of patients undergoing transvascular aneurysm interventions and coiling.

05/2019 - 05/2019 Neuroanesthesia Didactics: Landmark Article - IHAST, Facilitator, 3161 MCE, Discussion of Todd, MM, et al. Mild Intraoperative Hypothermia During Surgery for Intracranial Aneurysm

05/2019 - 05/2019 Cognitive Recovery: EEG Monitoring, Clinical Instructor, VOR3 Rm 9, Patient discussion of cognitively impaired 55 y/o vasculopath undergoing bilateral LE arterial grafting. Using the BIS we engaged a hands-on modulation of the "awareness vs over-anesthetized" debate with adjuncts including late addition of IV clonidine and ketamine to promote a somewhat smoother emergence from anesthesia. Other elements of the talk included NMDA antagonism, essential of Mg++ management, alpha-2 pharma, and opioid-associated hyperalgesia.

06/2019 - 06/2019 Neuroanesthesia Didactics: Oral Board - Sitting Craniotomy, Facilitator, MCE 3161, The Mini-Oral Board Presentation of a Sitting Craniotomy case was developed through case evaluation and questioning of a single resident with the group's participation. Highlights include Pre-op evaluation, Differential Diagnosis of Air Embolus and management, as well as Hypertension, Hypokalemia, ICP, Fluid Mgmt

06/2019 - 06/2019 Neuro Didactics: PBLD - Pituitary Tumor, Facilitator, 3161 MCE, Problem-Based Learning Discussion of the pathophysiology of pituitary tumors, anesthetic management of transsphenoidal hypophysectomy and management of complications attendant to the procedure.

08/2019 - 08/2019 Neuroanesthesia Didactics: PBLD - Delayed Emergence, Facilitator, 3161 TVC, Problem-Based Learning Discussion- Including causes and management of delayed emergence from anesthesia

08/2019 - 08/2019 Neuro Didactics: PBLD - TBI, Facilitator, 3161 MCE, Problem-Based Learning Discussion - Involving a case of Traumatic brain injury, including anesthetic management

09/2019 - 09/2019 Neuro Didactics: PBLD - Spine/Chronic Pain, Facilitator, 3261 MCE, Problem-Based Learning Discussion, involving management of a patient with chronic pain, on suboxone, scheduled for spinal surgery

09/2019 - 09/2019 Neuro Didactics: PBLD - DBS, Facilitator, 3161 MCE, Problem-Based Learning Discussion of the management of a patient undergoing sitting awake craniotomy for placement of Deep Brain Stimulating electrodes for Parkinson's disease.

10/2019 - 10/2019 Neuro Didactics: PBLD - CEA, Facilitator, 3161 MCE, Problem-Based Learning Discussion of anesthetic management of a patient undergoing open carotid endarterectomy.

10/2019 - 10/2019 Neuro Didactics: PBLD - Delayed Emergence, Facilitator, 3161 MCE, Problem-Based Learning Discussion- Including causes and management of delayed emergence from anesthesia

10/2019 - 10/2019 Neuro Didactics: PBLD - Aneurysm Coiling, Facilitator, 3161 MCE, Problem-Based Learning Discussion of Anesthetic management of a patient undergoing transvascular cerebral aneurysm coiling.

12/2019 - 12/2019 Neuro Didactics: Mini-Oral Board - CEA, Facilitator, 3161 MCE, Oral Board Case Presentation format of the Management of open Carotid Endarterectomy by one of the residents with comments by the Facilitator.

12/2019 - 12/2019 Neuro Didactics: Landmark Article - IHAST, Facilitator, 3161, Review of the Classic Article: Todd, MM, et al. Mild Intraoperative Hypothermia during

	<p>Surgery for Intracranial Aneurysm. NEJM 2005; 352:135-45. conclusions Intraoperative hypothermia did not improve the neurologic outcome after craniotomy among good-grade patients with aneurysmal subarachnoid hemorrhage.</p> <p>Neuro Didactics: Landmark Article: ISAT, Facilitator, 3161 MCE, Review of the Classic Article: International Subarachnoid Aneurysm Trial (ISAT) Collaborative Group. International Subarachnoid Aneurysm Trial (ISAT) of neurosurgical clipping versus endovascular coiling in 2143 patients with ruptured intracranial aneurysms: a randomised trial. Lancet 2002; 360 1267-74. Interpretation In patients with a ruptured intracranial aneurysm, for which endovascular coiling and neurosurgical clipping are therapeutic options, the outcome in terms of survival free of disability at 1 year is significantly better with endovascular coiling. The data available to date suggest that the long-term risks of further bleeding from the treated aneurysm are low with either therapy, although somewhat more frequent with endovascular coiling.</p>
12/2019 - 12/2019	
01/2020 - 01/2020	<p>Neuro Didactics: Oral Board #4 - Neuro Trauma, Facilitator, 3161 MCE, Oral Board Question Review - Neuro Trauma with questioning of a selected resident about the anesthetic management of a patient undergoing craniotomy after cranial trauma.</p> <p>Neuro Didactics: Landmark Article: ISAT Trial, Facilitator, 3161 MCE, Review of the Classic Article: International Subarachnoid Aneurysm Trial (ISAT) Collaborative Group. International Subarachnoid Aneurysm Trial (ISAT) of neurosurgical clipping versus endovascular coiling in 2143 patients with ruptured intracranial aneurysms: a randomised trial. Lancet 2002; 360 1267-74. Interpretation In patients with a ruptured intracranial aneurysm, for which endovascular coiling and neurosurgical clipping are therapeutic options, the outcome in terms of survival free of disability at 1 year is significantly better with endovascular coiling. The data available to date suggest that the long-term risks of further bleeding from the treated aneurysm are low with either therapy, although somewhat more frequent with endovascular coiling.</p>
01/2020 - 01/2020	
01/2020 - 01/2020	<p>Neuro Didactics: Landmark Article: RESCUEicp, Facilitator, ZOOM, Hutchinson PJ, et al. RESCUEicp: Trial of decompressive craniectomy for traumatic intracranial hypertension. NEJM. 2016. v375; 12:1119-1130. Medical or surgical management in TBI need to be placed in the historical context of severe head injury management. Medical management alone (versus decompressive craniotomy), as well as the general use of ICP monitoring have only been widely considered as critical issues over the past 20-25 years and uniform brain trauma management guidelines implemented over the past 10-15 years. The findings of this trial argue for more investigation into the nuances of selecting patients for decompressive craniectomy after traumatic brain injury and for the development of more refined clinical decision-making tools.</p>
01/2020 - 01/2020	
02/2020 - 02/2020	<p>Neuro Didactics: Neuro Rotation Orientation, Facilitator, 3161 MCE, Basic and Advanced Neuro rotation: To provide a venue for application of the basic fundamentals of anesthesiology, to integrate the core neuroanesthetic concepts, and expose the residents to routine and some complex neurosurgical cases.</p>
02/2020 - 02/2020	<p>Neuro Didactics: PBLD - Aneurysm Clipping, Facilitator, 3161 MCE, Problem-Based Learning Discussion: Anesthetic management of Open Cerebral Aneurysm Clipping, with consideration of pre-op assessment, intraoperative monitoring and postoperative care.</p>
02/2020 - 06/2020	<p>Neuro Didactics: Landmark Article: IHAAT, Facilitator, 3161 MCE, Review of the Classic Article: Todd, MM, et al. Mild Intraoperative Hypothermia during Surgery for Intracranial Aneurysm. NEJM 2005; 352:135-45. Conclusions: Intraoperative hypothermia did not improve the neurologic outcome after craniotomy among good-grade patients with aneurysmal subarachnoid hemorrhage.</p>
03/2020 - 03/2020	<p>Neuro Didactics: PBLD: Pre-op Eval, Positioning, &amp; Cardiopulmonary, Facilitator, 3161 MCE, Problem-Based Learning Discussion: Pre-op Eval, Positioning and Cardiopulmonary interactions for Cerebellar craniotomy. Includes considerations for sitting position and venous air embolism.</p>
03/2020 - 03/2020	<p>Neuro Didactics: Landmark Article- Rescue ICP, Facilitator Moderator, Zoom Meeting, Hutchinson PJ, et al. Trial of Decompressive Craniectomy for Traumatic Intracranial Hypertension. NEJM 2016; 375:1119-30. CONCLUSIONS At 6 months, decompressive craniectomy in patients with traumatic brain injury and refractory intracranial hypertension resulted in lower mortality and higher rates of vegetative state, lower severe disability, and upper severe disability than medical care. The rates of moderate disability and good recovery were similar in the two groups.</p>

04/2020 - 04/2020	<p>Neuro Didactics: Oral Board #2 - CEA, Facilitator, 3161 MCE, Oral Board Case Presentation format with a critique of the Management of open Carotid Endarterectomy as elicited from one of the residents with comments by the Facilitator.</p>
04/2020 - 04/2020	<p>Neuro Didactics: Landmark Article - GOLIATH, Discussion Facilitator, Zoom Meeting, Review of the Classic Article:Sorensen LH, et al. Safety and quality of endovascular therapy under general anesthesia and conscious sedation are comparable: results from the GOLIATH trial. <i>NeuroIntervent Surg</i> 2019;11:1070–1072. (GOLIATH) trial compared infarct growth and outcome in patients undergoing endovascular therapy (EVT) under either general anesthesia (GA) or conscious sedation (CS). The results were the same for the primary outcome (infarct growth) but successful reperfusion was higher in the GA arm. Safety and quality of EVT under either GA and CS are comparable.</p>
05/2020 - 05/2020	<p>Neuro Didactics: PBLD - Pituitary - TSS, Facilitator/Moderator, Zoom Meeting, Problem-Based Learning Discussion: Transnasal Transphenoidal Pituitary Mass Resection. Guided discussion of the Anesthetic Considerations for managing Pituitary surgery, with concerns for pre-op management of Cushing's and other endocrine issues associated with secreting tumors, management of intraoperative complications including hemorrhage, and management of potential Post-op DI.</p>
05/2020 - 05/2020	<p>Neuro Didactics: Landmark Article - GOLIATH, Facilitator/Moderator, Zoom Meeting, Review of the Classic Article:Sorensen LH, et al. Safety and quality of endovascular therapy under general anesthesia and conscious sedation are comparable: results from the GOLIATH trial. <i>NeuroIntervent Surg</i> 2019;11:1070–1072. (GOLIATH) trial compared infarct growth and outcome in patients undergoing endovascular therapy (EVT) under either general anesthesia (GA) or conscious sedation (CS). The results were the same for the primary outcome (infarct growth) but successful reperfusion was higher in the GA arm. Safety and quality of EVT under either GA and CS are comparable.</p>
06/2020 - 06/2020	<p>Neuro Didactics: Basic Overview, Facilitator, ZOOM, Initial Chapters (1-4) of Cottrell &amp; Patel Neuroanesthesia Text as well as Basic overview of the Neuroanesthesia Rotation including application of the basic fundamentals of anesthesiology and to integrate the core neuroanesthetic concepts, and expose the residents to routine and some complex neurosurgical cases.</p>
06/2020 - 06/2020	<p>Neuro Didactics: PBLD - DBS, Facilitator/Moderator, Zoom Meeting, Problem-Based Learning Discussion of the pre-op evaluation and management of a patient undergoing sitting awake craniotomy for placement of Deep Brain Stimulating electrodes for Parkinson's disease.</p>
06/2020 - 06/2020	<p>Neuro Didactics: Landmark Article - IHASt, Facilitator/Moderator, Zoom Meeting, Review of the Classic Article: Todd, MM, et al. Mild Intraoperative Hypothermia during Surgery for Intracranial Aneurysm. <i>NEJM</i> 2005; 352:135-45. Conclusions: Intraoperative hypothermia did not improve the neurologic outcome after craniotomy among good-grade patients with aneurysmal subarachnoid hemorrhage.</p>
08/2020 - 08/2020	<p>Neuro Didactics: Landmark Article - GOLIATH, Facilitator, ZOOM, Reading: Chapters 13-15, 18; Session - Landmark Article: GOLIATH "Safety and quality of endovascular therapy under general anesthesia and conscious sedation are comparable: results from the GOLIATH trial", essentially that. No difference in outcomes if GA or Iconscious sedation.</p>
09/2020 - 09/2020	<p>Neuro Didactics: PBLD - "Just a MAC", Facilitator, ZOOM, Problem-Based Learning Discussion of the anesthetic management of Deep Brain Stimulator placement including risks and complications.</p>
10/2020 - 10/2020	<p>Neuro Didactics: PBLD: Delayed Emergence, Facilitator, ZOOM, Problem-Based Learning Discussion- Including causes and management of delayed emergence from anesthesia</p>
11/2020 - 11/2020	<p>Neuro Didactics: PBLD - Spine &amp; Chronic Pain, Moderator, ZOOM</p>
12/2020 - 12/2020	<p>Neuro Didactics: Oral Board - Trauma Crani, Examiner, ZOOM, Oral Board Question: Discussion of Initial evaluation, Monitoring, Induction, Maintenance and complications in a head-injured patient with femoral fracture DM2, for craniotomy, attendant post-op care with complications.</p>
01/2021 - 01/2021	<p>Neuro Didactics: Landmark Article "RESCUEicp", Facilitator, ZOOM, RESCUEicp: Hutchinson PJ, et al. Trial of decompressive craniectomy for traumatic intracranial hypertension. <i>NEJM</i>. 2016. v375; 12:1119-1130. RESCUEicp and really, any trials of medical or surgical management in TBI need to be placed in the historical context of severe head injury management. Medical management alone (versus decompressive craniotomy), as well as the general use of ICP monitoring have only been widely considered as critical issues over the past 20-25 years and uniform</p>

brain trauma management guidelines implemented over the past 10-15 years. The RESCUEicp trial showed that decompressive surgery in patients with traumatic brain injury and raised intracranial pressure was associated with lower mortality than medical management.

## Research Supervision / Mentorship

04/2008 - 06/2011	Humphrey Lam, M.D. Department of Anesthesiology VUMC and Carroll Children's Hospital, Current Position: Fellow - Pediatric Anesthesia. (Faculty, General Mentorship)
04/2008 - 06/2012	Andrey Belous, M.D. Department of Anesthesiology, VUMC, Current Position: Resident. (Faculty, General Mentorship)
06/2012 - 08/2018	Stephen Harvey, M.D. Vanderbilt University Medical Center, Current Position: Staff Anesthesiologist. (Faculty, Research)
05/2013 - 07/2013	Sonal Walia, Undergraduate Vanderbilt University, Current Position: 3rd year student. (Faculty, Research)
12/2013 - 12/2014	Art Sedykh, M.D. Vanderbilt University Medical Center, Current Position: PGY 4 Department of Anesthesiology. (Faculty, Research)

## Other Significant Activities

03/2012	Richmond Agitation-Sedation Scale (RASS) on Emergence: RASS scoring immediately on emergence from anesthesia is being added to the electronic record (GasChart). This measure will facilitate improved record keeping and research into early cognitive changes post-operatively.
03/2012	Report on 2012 World Congress of Anaesthesiologists Lecture Sessions Related to Neurocognitive Dysfunction: Report to SNACC for Newsletter promulgation contains brief reviews of 10 lectures presented at WCA covering aspects of neurocognitive decline related to anesthesia and surgery. To be expanded into article for JNA.
04/2012	30th Vanderbilt Annual Research Forum: Served as a Judge for the Annual Research Forum, judging poster and verbal presentations of more than 100 resident and student research projects.
08/2012	Simulation Training for Maintenance of Certification in Anesthesiology (MOCA®): Enrolled participants will experience or observe various clinical scenarios carefully selected to represent common and infrequent critical events in anesthesia practice.
04/2013	31st Vanderbilt Annual Research Forum : Served as a Judge for the Annual Research Forum, judging posters and verbal presentations of more than 120 resident and student research projects
03/2015	Clinical Continuity Experience: Completing 2nd year as a Small Group Facilitator for a group of 1st/2nd year medical students in a program designed to provide substantial clinical experience in patient teaching and coaching, systems engineering, team care, and patient safety.
04/2015	34th Annual Vanderbilt University Housestaff Research Forum: Judged research poster presentations for this Annual Research Symposium
10/2015	Problem-Based Learning Discussion (PBLD) - ASA October 10/24/15: Subarachnoid hemorrhage - Recognition and Current Management
10/2015	Society for Neuroscience in Anesthesia and Critical Care - Poster Session: Electronic Poster Session Co-Moderator with Dr. James Cottrell (primarily Dexmedetomidine Pharmacology)
04/2016	35th Annual Vanderbilt University House Staff Research Forum: Served as a Judge for the Annual VUMC Research Forum, judging posters and verbal presentations of more than 130 resident and student research projects
06/2016	Clinic Continuity Experience: Completing 3rd year as a Small Group Facilitator for a group of 1st year medical students in a program designed to provide substantial clinical experience in patient teaching and coaching, systems engineering, team care, and patient safety.
06/2016	CEBA Guideline - Indocyanine Green Use and Safety: Brief description of the clinical uses of ICG during open neuromuscular procedures, including Indications, Contraindications, Precautions, Adverse Reactions, Dosage and Administration.
06/2016	CEBA Guideline - Adenosine - Use in Neurosurgery - Quick Reference: Adenosine Pharmacology, Mechanism, Indications, Contraindications, Dosages, Route of Administration, Drug Interactions, Warnings & Precautions.

07/2016	Guanfacine Reformulation: Creating a parenteral formulation of guanfacine, a highly selective alpha-2 agonist, as an additive to local anesthetics for analgesic injection of the Gasserian Ganglion (CN5) for facial pain.
01/2019	CEBA Guideline - Lidocaine Infusion - Pharmacology & Safety: Authored "Lidocaine Infusion - Brief Review" describes the Pharmacology, Pharmacokinetics, Metabolism, & Binding w rationale for continuous infusion. Analgesia, Cerebral effects, TIVA, contraindications, side effects and safety are discussed w references.
04/2020	VUMC 39th Annual Research Forum : Served as a Judge for the Annual Research Forum, judging virtual abstracts, posters and verbal presentations of more than 144 resident and student research projects.

## Grants and Funding

VUMC35170	James Blair (PI)	12/2008 - 12/2013
Hospira, Inc.; Anesthesia Innovations Grant		
Perioperative Infusion of Dexmedetomidine Does Not Reduce Hospital Stay after Major Spine Surgery-A DBPC Study		
Anesthesia has traditionally served an ancillary role in the surgical treatment of disease. However, there is clear potential for anesthesia to influence outcome, beyond getting the patient safely through the surgery. Other considerations, such as reducing length of stay and thus reducing the cost of medical care are emerging as real goals of astute anesthetic management. This study seeks to determine if the use of a drug (dexmedetomidine) with pleotropic actions can help reach these goals.		
Role: Principal Investigator		
Total Cost: \$45,150.00		
VUMC35170		04/2011 - 12/2015
CTSA/VICTR; Anesthesia Innovations Grant		
Peri-anesthetic Imaging of Cognitive Decline -PAICOD Study		
Over the past several years, concern has been growing that for patients at the extremes of age, some anesthetic agents may harbor subtle, previously minimally examined, serious neurotoxic effects that can cause lasting decline in the function of the central nervous system (CNS). For the elderly, these effects may manifest in lasting post-operative deterioration of memory and the capacity for normal information processing that can result in the inability to perform the activities of daily living (ADLs) with eventual early demise. Unfortunately, even though our ability to evaluate anesthetic risk has grown asymptotically for virtually every organ system, the brain remains neglected. The study aims to determine if MRI can demonstrate changes in the CNS pre-op vs post-op that relate to anesthesia and surgery and how those changes might correlate with neurocognitive testing. VICTR component of Study Re-Funded on 2 June 2014.		
Role: Principal Investigator		
Total Cost: \$77,375.00		
Grant number unavailable	Stephen Harvey (PI)	08/2016 - 08/2017
VICTR		
A Randomized, Placebo-Controlled, Double-Blind Trial of Oral Guanfacine to Reduce PONV After Thyroidectomy		
Untreated post-op nausea and vomiting occur after 20-30% of surgical procedures. Pre-op oral Guanfacine (GF), an alpha-2A agonist, may reduce the incidence of PONV, as well as post-op pain and delirium on emergence after thyroidectomy.		
Role: Co-Investigator		
Total Cost: \$5,000.00		

## Publications

### Peer Reviewed Publications

#### Research Papers

1. **Blair, JL**, Warner, DS, Todd, MM. Effects of elevated plasma magnesium versus calcium on cerebral ischemic injury in rats. *Stroke* 1989 April;20(4):507-512. PMID: 2648653.
2. Olivencia-Yurvati AH, **Blair JL**, Baig M, Mallet RT. Pyruvate-enhanced cardioprotection during surgery with cardiopulmonary bypass. *J Cardiothorac Vasc Anesth*. 2003 December;17(6):715-720. PMID: 14689411.
3. Fei M, **Blair JL**, Rice MJ, Edwards DA, Liang Y, Pilla MA, Shotwell MS, Jiang Y. Comparison of effectiveness of two commonly used two-handed mask ventilation techniques on unconscious

apnoeic obese adults. British Journal of Anaesthesia 2017 April;118(4):618-624. PMID: 28403406.

### Case Reports

1. Greening A, Mathews L, **Blair JL**. Apparent dexmedetomidine-induced polyuric syndrome in an achondroplastic patient undergoing posterior spinal fusion . Anesthesia & Analgesia 2011 December;113(6):1381-1383. PMID: 22003216.
2. Kim SM, **Blair JL**, Mathews L. Anesthetic Management of Craniopharyngioma in a 19-Year-Old COVID-19 Suspect: Clinical Decision Making and Dilemmas. SNACC Newsletter Summer 2020 2020 June.

### Non-Peer Reviewed Publications

#### Book Chapters

1. Oleg V. Evgenov, Yandong Jiang, Yafen Liang and James L. Blair. Chapt 21: Pulmonary Pharmacology of Inhaled Anesthetics. Miller's Anesthesia - 9th Edition. Editors: Michael A. Gropper, Neil H. Cohen, Lars I. Eriksson, Lee A. Fleisher, Kate Leslie, Jeanine P. Wiener-Kronish. New York, New York, United States: Elsevier; 2020 January; 1 & 2 540-571. ISBN: Set: 978-0-323-59604-6.

#### Abstracts

1. **Blair JL**, McGuire R, Killian J, Amundson G. Esmolol as primary agent for controlled hypotension. Abstract; Presented at the IARS (63rd Congress) March 4-8, Lake Buena Vista, FL, March 4-8 1989. Anesth Analg 1989 February;68(ppg S1-S321):S32.

#### Conference Proceedings

1. Warner DS, **Blair JL**, Todd MM. Interaction between acute hypermagnesemia, hypercalcemia and plasma glucose: effects on cerebral ischemic injury.. Second International Symposium on the Pharmacology of Brain Ischemia, Marburg, West Germany Oct 3-5, 1988. SYS.1 A5159.74; 9.02.89 WissVerlag/Kriegelstein (00) L58. 1989 September;18:5(Pharmazie in Unserer Zeit SYS.1 A5159)Marburg, Germany.
2. **Blair JL**, Killian J. Esmolol for Controlled Hypotension in Pediatric Scoliosis Surgery.. (Poster) Presented at the International Scoliosis Research Society . 1989 September;The Hague, The Netherlands.
3. **Blair JL**, Warner DS, Todd MM. Effects of Pre-Ischemic Elevation of Plasma Magnesium versus Calcium on Cerebral Ischemic Injury in the Rat.. American Society of Anesthesiologists. 1989 October;San Francisco, CA.

### Presentations

#### Presentations at Scientific Meetings

1. Blair JL, Warner DS, Todd MM. World Congress of Anesthesia. WCA; Washington, District of Columbia. 1988 May 26; Effects of Pre-Ischemic Elevation of Plasma Magnesium versus Calcium on Cerebral Ischemic Injury in the Rat.
2. Warner DS, Blair JL, Todd MM. Second International Symposium on the Pharmacology of Brain Ischemia. Marburg, Germany. 1988 Oct 3; Interaction between acute hypermagnesemia, hypercalcemia and plasma glucose: effects on cerebral ischemic injury.
3. Isaak R, Blair JL. American Society of Anesthesiologists Annual Meeting. ASA; New Orleans, Louisiana. 2009 Oct; Intraoperative management of 6 cm giant right middle cerebral artery aneurysm.
4. Schlesinger J, Blair JL. American Society of Anesthesiologists Annual Meeting. ASA; San Diego, CA, California. 2010 Oct; Rebound hypertension after unrecognized clonidine cessation successfully treated with dexmedetomidine.
5. Schlesinger J, Blair JL. American Society of Anesthesiologists Annual Meeting. ASA; San Diego, California. 2010 Oct; Intermittent bolus dosing of dexmedetomidine to provide a smooth emergence in a patient with a history of agitation and operative delirium.
6. Schlesinger J, Blair JL. American Society of Anesthesiologists Annual Meeting. ASA; San Diego, California. 2010 Oct; Dexmedetomidine and regional anesthesia in a patient with a known difficult airway and Becker's Muscular Dystrophy (BMD).
7. Greening A, Mathews L, Blair JL. American Society of Anesthesiologists Annual Meeting. ASA; San Diego, California. 2010 Oct; Apparent dexmedetomidine-induced diabetes insipidus in an achondroplastic patient undergoing posterior spinal fusion.
8. Tomlinson R. Blair JL. American Society of Anesthesiologists Annual Meeting. ASA; San Diego, California. 2010 Oct; Laparoscopic surgery after repair of congenital heart disease (Fontan).

9. Tomlinson R. Blair JL. American Society of Anesthesiologists Annual Meeting. ASA; San Diego, California. 2010 Oct; TO PRESS OR NOT TO PRESS? Carotid stenosis, recent myocardial infarction, unsecured cerebral aneurysm with subarachnoid hemorrhage, and severe vasospasm.
10. Blair JL, St Jacques P, Neeley R. Tennessee Society of Anesthesiologists. TSA; Nashville, Tennessee. 2011 Feb 26; Spasmodic Dysphonia complicating airway management and skull base surgery.
11. Maziad J, Blair JL. Tennessee Society of Anesthesiologists. TSA; Nashville, Tennessee. 2011 Feb 26; Prolonged neuromuscular blockade during continuous infusion of piperacillin-tazobactam (Zosyn).
12. Cropsey C, Blair JL. ASA. ASA; Chicago, Illinois. 2011 Oct 17; Spinal hardware revision complicated by recent coronary stents.
13. Aron Broman, MD. American Society of Anesthesiologists. ASA; Washington, District of Columbia. 2012 Oct 15; Osteomyelitis Induced Cervico-Thoracic Hardware Failure Leading to Severe Kyphotic Deformity.
14. James L. Blair. American Delirium Society. American Delirium Society; Indianapolis, Indiana. 2013 Jun 3; Case Report of Post-op Delirium & Amnesia with NCT Follow-up – Prefrontal Cortex & the Stroop Task.
15. James L. Blair. American Delirium Society Annual Meeting. American Delirium Society; Indianapolis, Indiana. 2013 Jun 3; Guanfacine for Emergence Delirium in Children – A Case Report in Twins.

#### **Invited Presentation - Local**

1. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1988 Jun; Neurologic Monitoring for Spine Surgery.
2. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1989 Apr; Anesthesia: Neurophysiologic Correlations.
3. Texas Assoc. of Post-Anesthetic Nurses; Fort Worth, Texas. 1997 Mar 12; Pulmonary Edema in PACU - Identification and Management.
4. Tumor Board. Hillcrest Baptist Hospital; Waco, Texas. 1999 Mar 24; Chronic Pain: Identification & Management.
5. Center for Pain Management; Fort Worth, Texas. 1999 May; Chronic Pain Management Utilizing Narcotics: How to Do It Safely.
6. Huguley Memorial Medical Center; Fort Worth, Texas. 1999 Aug 31; Pain Management & Your License: Changing Rules in Texas.
7. Department of Anesthesiology - Womack Army Medical Center; Fort Bragg, North Carolina. 2000 Aug 9; Current Clinical Considerations in Regional Anesthesia.
8. Department of Anesthesiology - Christiana Care Hospital; Newark, Delaware. 2000 Aug 23; A New Look at Local Anesthetics.
9. Department of Anesthesiology - Pontiac Hospitals; Pontiac, Delaware. 2000 Sep 11; Regional Anesthetic Toxicity in Acute & Chronic Pain Management.
10. 22nd Annual University of Detroit Graduate CRNA Seminar. University of Detroit; Troy, Michigan. 2000 Sep 16; Local Anesthetic Toxicity: Lessons Learned and New Medications.
11. Department of Anesthesiology - Union Hospital; Lynn, Massachusetts. 2001 Jan 4; Levobupivacaine - Stereochemistry, Pharmacology and Utility.
12. Department of Anesthesiology - Henry Ford Hospital; Detroit, Michigan. 2001 Jan 9; Regional Anesthetic Techniques for Upper Extremity Blocks.
13. Department of Anesthesiology - Henry Ford Hospital; Detroit, Michigan. 2001 Jan 10; New Local Anesthetic Agents & Techniques.
14. Department of Anesthesiology - Piedmont Hospital; Atlanta, Georgia. 2001 Jan 24; Pharmacologic Variations in Local Anesthetics and the New Levo-Isomers.
15. Department of Anesthesiology - United Hospital; St. Paul, Minnesota. 2001 Feb 1; New Local Anesthetic Agents: Derivation Pharmacology & Use.
16. Department of Anesthesiology - Mesa Lutheran Hospital; Mesa, Arizona. 2001 Feb 16; History, Pharmacology and Utility of the Newer Local Anesthetics.
17. Department of Anesthesiology - Scottsdale Health Center; Scottsdale, Arizona. 2001 Feb 16; Regional Anesthetic Techniques for Upper Extremity Blocks.
18. Department of Anesthesiology - University Medical Center; Tucson, Arizona. 2001 Mar 28; History, Pharmacology and Utility of the Newer Local Anesthetic Agents.
19. University of Arizona - Department of Anesthesiology; Tucson, Arizona. 2001 Mar 28; Regional Anesthetic Techniques for Upper Extremity Blocks.
20. Department of Anesthesiology; Erlanger Hospital; Chattanooga, Tennessee. 2001 Apr 11; L-Bupivacaine: Safety, Clinical Utility and Experience.
21. Low Country Anesthesia; Beaufort, South Carolina. 2001 Apr 30; Levobupivacaine: Chemistry, Safety, Clinical Utility and Experience.
22. Department of Anesthesiology; Munson Medical Center; Traverse City, Michigan. 2001 May 16; History, Pharmacology and Utility of the Newer Local Anesthetic Agents.

23. Department of Anesthesiology; Shands Hospital; Jacksonville, Florida. 2001 May 24; Levobupivacaine: Chemistry, Safety, Clinical Utility and Experience.
24. Department of Anesthesiology; Hendrick Medical Center; Abilene, Texas. 2001 May 24; History, Pharmacology and Utility of the Newer Local Anesthetic Agents.
25. Department of Anesthesiology; Medical Center; Austin, Texas. 2001 Jun 21; Levobupivacaine: Chemistry, Safety, Clinical Utility and Experience.
26. Department of Anesthesiology - MetroHealth; Cleveland, Ohio. 2001 Jul 17; L-Bupivacaine: Safety, Clinical Utility and Experience.
27. Department of Anesthesiology - Ingham Regional Medical Center; Lansing, Michigan. 2001 Sep 4; Levobupivacaine: Chemistry, Safety, Clinical Utility and Experience.
28. Respiratory Therapy Colloquium. Osteopathic Medical Center of Texas; Fort Worth, Texas. 2001 Nov 15; Airway Management: Basics, Tools, Tricks.
29. St. John Mercy Hospital Department of Anesthesiology; St. Louis, Missouri. 2002 Jan 9; Clinical Profile – The Newer Chiral Local Anesthetic Agents.
30. Clinical Rounds. Department of Nursing - Osteopathic Medical Center of Texas; Fort Worth, Texas. 2002 Jan 25; Things I Have Learned in Pain – Acute Pain Management.
31. James Blair. Vanderbilt CRNA Continuing Education. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jun 27; Alpha-2 Agonists - Pharma & Utility.
32. Research Faculty and Staff. Vanderbilt Annual Anesthesia Research Symposium. Department of Anesthesiology; Nashville, Tennessee. 2013 May 3; Alpha-2 Agonists - Sedation, Attention, Inflammation.
33. James Blair. Vanderbilt Skull Base Surgeons Monthly Meeting. Vanderbilt University; Nashville, Tennessee. 2014 Nov 5; Anesthesia for Skull Base Surgery.
34. James Blair, DO. Vanderbilt Skull-Base Surgical Grand Rounds. Vanderbilt Department of Otolaryngology; Nashville, Tennessee. 2015 Sep 3; Neuropharmacology.
35. James Blair, DO. Department of Neurosurgery Grand Rounds. Vanderbilt Department of Neurosurgery; Nashville, Tennessee. 2015 Dec 4; Neurophysiologic Monitoring During Neurosurgery.

#### **Invited Presentation - Regional**

1. Annual Meeting, Texas Osteopathic Medical Association. TOMA; Dallas, Texas. 1999 Jun 19; Pain Management & Narcotics: Clinical & Ethical Considerations.
2. Fayetteville Hospital; Fayetteville, North Carolina. 2000 Aug 8; L-Bupivacaine - A Novel Formulation of an Old Friend.
3. Annual Meeting - MANA. Minnesota Association of Nurse Anesthetists; Bloomington, Minnesota. 2001 Mar 10; Local Anesthetics: History, Chemistry and Newer Agents.
4. TSPAN Fall Fling. Tennessee Society of Perianesthetic Nurses; Nashville, Tennessee. 2012 Oct 6; Post-Anesthetic Cognitive Decline.
5. Region 3 Semi-annual Anesthesia Technologists Meeting. American Society of Anesthesia Technologists; Nashville, Tennessee. 2016 Nov 12; NEW & OLD – THE LMA & Other Buggy Whips; Some Anesthesia History.

#### **Invited Presentation - National**

1. 2014 American Society of Anesthesiologists Annual Meeting. ASA; New Orleans, Louisiana. 2014 Oct 14; Dexmedetomidine Does Not Reduce Length of Stay After 3+ Level Spine Surgery.

#### **Invited Presentation - International**

1. Faculty Presentation - University of Debracen, Hungary. Medical Faculty, University of Debracen, Department of Anesthesiology; Debracen, Tennessee, Hungary. 2014 Nov 12; Clinical Use of Alpha-2 Agents in Anesthesiology and Critical Care.

#### **Invited Presentation - Other**

1. Department of Anesthesiology - Regions Hospital; St. Paul, Minnesota. 2001 Feb 1; New Local Anesthetic Agents & Techniques.
2. Columbus Anesthesia Associates. Department of Anesthesiology - St. Francis Hospital; Columbus, Georgia. 2001 Mar 26; L-Bupivacaine: Safety, Clinical Utility and Experience.
3. St. Louis Society of Anesthesiologists; St. Louis, Missouri. 2002 Jan 8; Upper Extremity Blocks – Techniques & Clinical Experience.

#### **External Grand Rounds**

1. Surgical Grand Rounds. Texas Tech Department of Surgery; El Paso, Texas. 1999 Jun 17; Pain Management & Your License.

#### **Internal Grand Rounds**

1. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1988 Mar; Anesthetic Management of Patients with Increased ICP.
2. Neuroanesthesia Basics. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1988 Mar; Neurophysiology II – Pathophysiology and Increased ICP.
3. Neuroanesthesia Lectures. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1988 Mar; Neurophysiology I – Basic Science.
4. Department of Anesthesiology; Portsmouth, Virginia. 1988 Jul; Controlled Hypotension: Agents and Clinical Considerations.
5. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1988 Oct; Anesthetic & Monitoring Considerations for Carotid Endarterectomy.
6. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1989 May; Fluid Management in Neurosurgery.
7. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1989 Jul; Brain/Spinal Cord Protection: What Can Be Done?.
8. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1991 May; Patient Positioning and Temperature Regulation in Anesthesia.
9. Department of Anesthesiology - Fairfax Hospital; Fairfax, Virginia. 2001 Feb 21; L-Bupivacaine: Safety, Clinical Utility and Experience.
10. Medical Staff Grand Rounds. Baptist Hospital; Pensacola, Florida. 2001 Aug 10; Local Anesthetics: "We All Use Local, Don't We?".
11. Department of Anesthesiology - Ingham Medical Center; Lansing, Michigan. 2001 Sep 5; History, Pharmacology and Utility of the Newer Local Anesthetic Agents.
12. Grand Rounds. VUMC Department of Anesthesiology; Nashville, Tennessee. 2014 Mar 21; ADHD & Emergence Delirium: Potential Relationship & Management with Guanfacine.
13. Grand Rounds - Departmental QMMI. VUMC Department of Anesthesiology; Nashville, Tennessee. 2019 Jul 26; Positioning for Spine Surgery.
14. Grand Rounds. VUMC Department of Anesthesiology; Nashville, Tennessee. 2020 May 29; Employing Processed EEG to Inform Clinical Decision Making in Anesthesiology.
15. Grand Rounds. VUMC Department of Anesthesiology; Nashville, Tennessee. 2020 Sep 10; Can Understanding Waveforms and Drug effects Lead to Improved Cognitive Outcomes?.

### **Medically Challenging Cases**

1. Department of Anesthesiology - Portsmouth Naval Hospital; Portsmouth, Virginia. 1990 Oct 12; Case Management & Clinical Correlation: Brainstem Tumor.

### **University Talk**

1. VUMC Neuroanesthesia Group. Department of Anesthesiology; Nashville, Tennessee. 2008 Nov; Dexmedetomidine: Pharmacokinetics and Pharmacodynamics.
2. Resident Lecture. VUMC Department of Anesthesiology; Nashville, Tennessee. 2009 Aug 26; POCD - Aging and Anesthesia.
3. Anesthesia Clinical and Research Faculty. Annual Anesthesia Research Symposium. Department of Anesthesiology; Nashville, Tennessee. 2015 May 14; Dexmedetomidine Does Not Reduce Length of Stay After 3+ Level Spine Surgery.

### **Problem based learning discussion**

1. American Society of Anesthesiologists Annual Meeting. ASA; San Diego, California. 2015 Oct 24; Subarachnoid hemorrhage - Recognition and Current Management.