Curriculum Vitae

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Training

1988 - 1994	M.D. in Medical School from University of Calcutta, India
07/1998 - 06/2002	M.D. in Anesthesiology from Vanderbilt University Medical Center, Nashville TN
07/2002 - 06/2003	M.D. in Critical Care from Vanderbilt University Medical Center, Nashville TN

Licensure and Certification

12/2014	Boards, American Board of Anesthesiology (Critical Care), Certificate#: 35456
2016	Medical, Tennessee Medical License, License #: 36515
12/2023	Boards, American Board of Anesthesiology, Certificate#: 35456
03/1996 - Present	Boards, USLME Step I
10/1996 - Present	Boards, USLME Step II
03/2002 - Present	Boards, USLME Step III
07/2002 - Present	Boards, ABA Written Exam
04/2003 - Present	Boards, ABA Oral Exam
09/2004 - Present	Boards, Critical Care Subspecialies Board

Academic Appointments

07/2003 - 06/2007	Assistant Professor, Vanderbilt University (Nashville, Tennessee)
2006 - 2011	Course Director, Critical Care Skills Week, Anesthesiology, Vanderbilt University Medical Center (Nashville, Tennessee)
2006 - 2013	Director, Anesthesia Residency Simulation Program, Anesthesiology, Vanderbilt University Medical Center (Nash, Tennessee)
07/2007 - 02/2014	Assistant Professor of Surgery, Vanderbilt University (Nashville, Tennessee)
07/2007 - 10/2012	Assistant Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)
2008 - 2013	Course Director, Intern Boot Camp, Institutional, Vanderbilt University Medical Center (Nashville, Tennessee)
07/2009 - 10/2012	Surgical Clerkship Director, VA SICU, Surgery, Vanderbilt University Medical Center (Nashville, Tennessee)
2010 - Present	Director, American Society of Anesthesiology MOCA Course, Anesthesiology, Vanderbilt University Medical Center (Nashville, Tennessee)
2011 - Present	Director, Simulation Technologies Program, CELA, Simulation Technologies Program, CELA, Vanderbilt University Medical Center (Nashville, Tennessee)
07/2011 - 06/2014	Adjunct Assistant Professor of Nursing, Vanderbilt University (Nashville, Tennessee)
07/2011 - 02/2014	Assistant Professor of Medical Education and Administration, Vanderbilt University (Nashville, Tennessee)
07/2011 - Present	Co-Director Critical Care Medicine Immersion Course, Vanderbilt University School of Medicine, Vanderbilt University Medical Center (Nashville, Tennessee)
03/2012 - 07/2013	Course Co-Director Advanced Perioperative Immersion Course, Anesthesiology, Vanderbilt University Medical Center (Nashville, Tennessee)
07/2013 - 02/2014	Assistant Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)

07/2013 - Present	Director Center for Experiential Learning and Assessment, Vanderbilt University School of Medicine, Vanderbilt University Medical Center (Nashville, Tennessee)
03/2014 - Present	Associate Professor of Medical Education and Administration, Vanderbilt University (Nashville, Tennessee)
03/2014 - Present	Associate Professor of Surgery, Vanderbilt University (Nashville, Tennessee)
03/2014 - Present	Associate Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)
07/2014 - Present	, Vanderbilt University (Nashville, Tennessee)
02/2015 - Present	Assistant Dean for Simulation in Medical Eduacation and Administration, Vanderbilt University (Nashville, Tennessee)
02/2015 - Present	Assistant Dean for Simulation in Medical Education, Vanderbilt University Medical Center (Nashville, Tennessee)

Hospital Appointments

12/1992 - 11/1993	Rotating Internship, NRS Medical College, Calcutta, India
12/1993 - 11/1994	Resident House Staffship, NRS Medical College, Calcutta, India
07/1998 - 06/2002	Resident Physician, Vanderbilt University Medical Center
07/2002 - 06/2003	Fellow, Vanderbilt University Medical Center
2003 - 2012	Attending Anesthesiologist, Anesthesiology, Tennessee Valley Healthcare System (VA Hospital) (Nashville, Tennessee)
2005 - 2012	Medical Director, Surgical ICU, TVHS Nashville, Tennessee Valley Healthcare Systems (VA Hospital) (Nashville, Tennessee)

Other Work Experience

04/1995 - 11/1995	Research Assistant, Vanderbilt University Medical Center
11/1996 - 07/1998	Research Assistant, Vanderbilt University Medical Center

Professional Organizations

Tennessee Society of Anesthesiology, Member
American Society of Anesthesiologists, Member
Society of Critical Care Medicine, Member
Society for Education in Anesthesia, Member
Society for Simulation in Healthcare, Member
American Society of Critical Care Anesthesiologists, Member
International Anesthesia Research Society, Member

Professional Activities

Intramural

2003 - Present	Medical Student Education Committee, Anesthesiology, Member
2003 - Present	Residency Admissions Committee, Anesthesiology, Member
2003 - Present	MDSCC Committee, Vanderbilt University Medical Center, Member
2003 - 2006	Insulin Protocol Development Committee, TVHS,, Veterans' Administration Hospital, Member
2003 - 2006	iMed Consent Group TVHS, Nashville, TN, Veterans' Administration Hospital, Member
2003 - 2012	SICU Committee TVHS, Nashville, TN, Veterans' Administration Hospital, Member
2004 - 2004	Promotions Criteria Committee for MCC track, Anesthesiology, Member
2005 - Present	Program Evaluation Committee, Anesthesiology, Member
2005 - 2006	Compensation Task Force, Anesthesiology, Member
2006 - 2013	Medical Simulation Steering Committee, VUMC, Nashville, TN, Vanderbilt University, Member
2009 - 2012	School of Medicine Admissions Committee, Vanderbilt University School of Medicine School of Medicine, Member
2010 - Present	Medical School Curriculum Revision Workgrup, Vanderbilt University School Of Medicine

2011 - Present	CELA Executive Committee, Vanderbilt University Medical Center, Chair
2012 - Present	CME Strategic Task Force, Vanderbilt University Medical Center, Member
02/2014 - Present	Program in Advanced Anatomy and Simulation Skills, Medical Education :ADMINISTRATION, Advisory Board for the Advanced Anatomical Lab, Member
03/2014 - Present	POCUS Committee, Vanderbilt University Medical Center, Institutional committee to oversee point - of - care Ultrasound Machine, Member

Extramural

2006 - 2007	Insulin Protocol Development Committee, TVHS Nashville TN
2006 - 2008	iMED Consent Group, TVHS Nashville TN
2009 - Present	Committee for Undergraduate Medical Education, Society of Critical Care Medicine, Member
2009 - Present	Simulation Education Network, American Society of Anesthesiology
2010 - 2012	In-Training Steering Committee, Society of Critical Care Medicine, Member
07/2011 - Present	FCCS Program Committee, Society Of Critical Care Medicine
07/2013 - Present	Reviewer for Anesthesiology
07/2013 - Present	Reviewer for Simulation in Healthcare
01/2015 - Present	Vice - Chair, Committee for Undergraduate Medical Education, Society of Critical Care Medicine, Vice - Chair

Teaching Activities

2003 - 02/2003	Pharmacology In The Neuro ICU Department Of Neurology Resident Lecture Series, Instructor
2003 - 02/2003	Trauma Fellows Conference: DVT Prophylaxis, Instructor
2003 - 02/2005	Neuro ICU / Surgical ICU Monthly Conference, Instructor, VUMC
12/2003 - 02/2003	Mock Oral Boards, Mock Oral Examiner
10/2004 - 02/2004	Resident Difficult Airway Workshop, Mock Oral Examiner
12/2004 - 02/2004	Mock Oral Boards, Mock Oral Examiner
2005 - 02/2005	Mock Oral Boards, Mock Oral Examiner
2005 - 02/2007	Review For Written Boards, Instructor
01/2005 - 02/2006	Written Review Question Practice Sessions (Biweekly), Instructor
03/2005 - 02/2005	Trauma Fellows Conference: Thromboelastogram, Instructor
05/2005 - 05/2005	Regional Anesthesia Workshop., Course Director
06/2005 - 02/2005	VMS I ANESTHESIA ELECTIVE AT VA - INTRODUCTION TO ANESTHESIA, Instructor
06/2005 - 02/2005	Introduction To Anesthesia â€" CA-1 Anesthesia Residents, Course Director
06/2005 - 02/2005	FCCS Course Instructor, Instructor, SCCM Course
06/2005 - 02/2005	Pharmacology In The Neuro ICU Department Of Neurology Resident Lecture Series, Instructor
10/2005 - 02/2005	FCCS Course Instructor, Instructor, SCCM Course
10/2005 - 10/2005	Annual Difficult Airway Workshop, Course Director
12/2005 - 02/2005	FCCS Course Instructor, Instructor, SCCM Course
02/2006 - 02/2006	FCCS Course Instructor, Instructor, SCCM Course
04/2006 - 02/2006	Trauma Fellows Conference: Thromboelastogram, Instructor
04/2006 - 02/2006	FCCS Course Instructor, Instructor, SCCM Course
05/2006 - 02/2006	Mock Oral Boards, Mock Oral Examiner
05/2006 - 05/2006	Regional Anesthesia And Acupuncture Workshop, Course Facilitator
06/2006 - 02/2006	VMS I ANESTHESIA ELECTIVE AT VA - INTRODUCTION TO ANESTHESIA, Instructor
06/2006 - 02/2006	Continuum In Simulation, Course Director
06/2006 - 02/2006	Continuum In Simulation, Course Director
06/2006 - 02/2006	FCCS Course Instructor, Instructor, SCCM Course
06/2006 - 02/2006	FCCS Course Instructor, Instructor, SCCM Course
06/2006 - 06/2006	Orientation â€" CA-1 Anesthesia Residents, Course Director
06/2006 - 09/2006	Continuum In Simulation â€" CA-I Anesthesia Residents, Course Director
06/2006 - 09/2006	Continuum In Simulation â€" CA-I Anesthesia Residents, Course Director
06/2006 - 10/2006	CA-2 Anesthesia Resident Simulation Course, Course Director

08/2006 - 02/2006	Mock Oral Boards, Mock Oral Examiner
08/2006 - 02/2006	FCCS Course Instructor, Instructor, SCCM Course
09/2006 - 02/2006	Annual Adult And Pediatric Difficult Airway Workshop, Course Director
10/2006 - 02/2006	FCCS Course Instructor, Instructor, SCCM Course
12/2006 - 12/2006	Critical Skills - Surgery Residents (PGY-I And PGY-Ii), Course Director
02/2007 - 02/2007	CA-I Simulation Continuum Course, Course Director
03/2007 - 02/2007	FCCS Course Instructor, Instructor, SCCM Course
04/2007 - 04/2007	Critical Skills - Surgery Residents (PGY-I And PGY-Ii), Course Director
05/2007 - 02/2007	Mock Oral Boards, Mock Oral Examiner
05/2007 - 05/2007	Regional Anesthesia And Ultrasound Workshop Course, Facilitator And Instructor
06/2007 - 06/2007	Basics And Crisis Management In Anesthesiology, Course Director
06/2007 - 09/2007	CA-2 Simulation Sessions, Course Director
07/2007 - 02/2007	The Proâ€™s And Conâ€™s Of Using LMAâ€™S, Organizer
07/2007 - 02/2007	The Airway Debate, Organizer
08/2007 - 02/2007	FCCS Course Instructor, Instructor, SCCM Course
08/2007 - 08/2007	Teamwork Day., Instruction And Curriculum Development Team
09/2007 - 09/2007	Annual Adult And Pediatric Difficult Airway Workshop, Course Director
12/2007 - 12/2007	CA-3 Anesthesia Resident Simulation Course, Course Director
01/2008 - 03/2008	CA-3 Simulation Sessions, Course Director
03/2008 - 02/2008	Trauma Fellows Conference: Thromboelastogram, Instructor
03/2008 - 02/2008	FCCS Course Instructor, Instructor, SCCM Course
03/2008 - 05/2008	CA-2 Simulation Sessions, Course Director
05/2008 - 02/2008	FCCS Course Instructor, Instructor, SCCM Course
06/2008 - 06/2008	Introduction To Anesthesia And Crisis Management Simulation Session, Course Director
07/2008 - 02/2008	FCCS Skill Station, Instructor
08/2008 - 2008	Fundamentals of Critical Care Support, Instructor
08/2008 - 02/2008	Mock Oral Boards, Mock Oral Examiner
08/2008 - 02/2008	Renal System And Anesthesia For Urologic Surgery, Instructor
08/2008 - 08/2008	CCSW: Ventilator Workshop 2hrs, Course Director
08/2008 - 08/2008	Teamwork Day., Instruction And Curriculum Development Team
08/2008 - 08/2008	Airway Workshop, Instructor
08/2008 - 09/2008	CCSW: Ventilator Workshop 8hrs, Course Director
09/2008 - 02/2008	FCCS Skill Station, Instructor
09/2008 - 02/2008	FCCS Course Instructor, Instructor, SCCM Course
10/2008 - 02/2008	FCCS Skill Station, Instructor
10/2008 - 02/2008	Anesthesia Session Instructor, Instructor
10/2008 - 10/2008	Airway Workshop: Cook Critical Care Course, Instructor, VUMC, 2 1/2 course incorporating didactic and simulation based teaching on clinical aspects of Cook Products used in the ICU
11/2008 - 2008	Fundamentals of Critical Care Support, Instructor, Course offered by SCCM
11/2008 - 02/2008	Complex Pulmonary Mechanics - VUSN, Instructor
11/2008 - 02/2008	FCCS Course Instructor, Instructor, SCCM Course
11/2008 - 02/2008	Anesthesia Interest Group, Instructor
11/2008 - 11/2008	CCSW: Diagnosis Of Shock, Course Director
11/2008 - 11/2008	Arrhythmia 4Hrs, Course Director
11/2008 - 11/2008	CCSW: Ventilator Workshop 4hrs, Course Director
11/2008 - 12/2008	Anesthesia CA-2 Simulation Session Course Development And Instruction, Course Director
12/2008 - 2008	Fundamentals of Critical Care Support, Instructor, Course offered by SCCM
01/2009 - 02/2009	CA-3 Anesthesia Simulation Sessions Course Development And Instruction, Course Director
01/2009 - 02/2009	Latin American Intensivist Simulation Session, Course Director
01/2009 - 02/2009	NP Simulation Session, Instructor
02/2009 - 02/2009	CCSW: Diagnosis Of Shock 4Hrs, Course Director
02/2009 - 02/2009	CCSW: Arrhythmia, Course Director
02/2009 - 02/2009	CCSW: Ventilator Workshop, Course Director

03/2009 - 2009	Fundamentals of Critical Care Support, Instructor, Course offered by SCCM
03/2009 - 2009	Fundamentals of Critical Care Support, Instructor, Offered by SCCM
03/2009 - 03/2009	Airway Workshop: Cook Critical Care Course, Instructor, VUMC, 2-Â½ day course for the Sales Representatives of Cook Critical Care. This course incorporates both didactic as well as simulation-based teaching on clinical aspect of Cook Products. used in the ICU.
04/2009 - 02/2009	FCCS: FCCS Skill Station, Instructor
04/2009 - 04/2009	Anesthesia CA-2 Simulation Session â€" Advanced Course Development And Instruction, Course Director
06/2009 - 02/2009	Mock Oral Boards, Mock Oral Examiner
06/2009 - 02/2009	FCCS Skill Station, Instructor
06/2009 - 02/2009	Ca-1- Renal Issues In Anesthesia, Instructor
06/2009 - 06/2009	Introduction To Anesthesia And Crisis Management Simulation Session, Course Director
06/2009 - 06/2009	Introduction To CELA. CA-1 Anesthesia, Course Director
08/2009 - 08/2009	CA-2 Anesthesia Simulation Sessions, Course Director
08/2009 - 08/2009	CCSW: Neurological Support 4h, VMS - III
08/2009 - 08/2009	CCSW: Arrhythmia 4h, CCSW Course Director
08/2009 - 08/2009	Teamwork Day., Instruction And Curriculum Development Team
08/2009 - 08/2009	CCSW: Ventilator Workshop 4h, Course Director
08/2009 - 08/2009	Mechanical Ventilation, Instructor, SICU
08/2009 - 08/2009	CCSW: Miscellaneous Lecture 1h, Course Director
09/2009 - 02/2009	FCCS: Trauma / Burn Skill Station, Instructor, SCCM Course
09/2009 - 02/2009	FCCS Course Instructor, Instructor, SCCM Course
09/2009 - 02/2009	Trauma Fellows Conference: Modes Of Ventilation â€" Part I, Instructor
09/2009 - 02/2009	Shock Skill Station, Instructor, SCCM Course
09/2009 - 09/2009	Fellows Simulation Session â€" Cardiology
09/2009 - 09/2009	Obstructive Shock, Instructor
10/2009 - 02/2009	Mock Oral Boards, Mock Oral Examiner
10/2009 - 02/2009	Fellows Simulation - Neurology, Instructor
10/2009 - 02/2009	Ventilator Workshop â€" VDR, Instructor
10/2009 - 02/2009	Trauma Fellows Conference: Modes Of Ventilation â€" Part Ii, Instructor
10/2009 - 10/2009	CA-3 Anesthesia Simulation Sessions, Course Director
10/2009 - 10/2009	Mechanical Ventilation, Instructor, SICU
10/2009 - 10/2009	Endocrine Issues, Instructor, SICU
10/2009 - 10/2009	Mechanical Ventilation, Instructor, SICU
10/2009 - 10/2009	Hemodynamic Monitoring, Instructor, SICU
11/2009 - 02/2009	FCCS Skill Station, Instructor
11/2009 - 11/2009	CCSW: Ventilator Workshop 4h, Course Director
11/2009 - 11/2009	Course Director: Arrhythmia 4h, CCSW
11/2009 - 11/2009	Management Of Increased ICP, Instructor, Neuro ICU
11/2009 - 11/2009	Hyponatremia, Instructor, Neuro ICU
11/2009 - 11/2009	CCSW: Miscellaneous Lectures 1h, Course Director
12/2009 - 12/2009	Airway Workshop: Cook Critical Care Course, Instructor, VUMC, 2-Â½ day course for the Sales Representatives of Cook Critical Care. This course incorporates both didactic as well as simulation-based teaching on clinical aspect of Cook Products.
12/2009 - 12/2009	CA-1 Anesthesia Resident Simulation Session â€" Continuum, Course Director
01/2010 - 02/2010	Ventilator Workshop, Instructor
02/2010 - 02/2010	CCSW: Diagnosis Of Shock 4h, Course Director
02/2010 - 02/2010	CCSW: Ventilator Workshop 2h, Course Director
02/2010 - 02/2010	CCSW: Arrhythmia 2h, Course Director
02/2010 - 02/2010	ACLS Review And Teamwork, Course Director
02/2010 - 02/2010	CCSW: Diagnosis Of Critically Ill 4h, Course Director
02/2010 - 02/2010	FCCS: Trauma / Burn Skill Station, Instructor, SCCM Course
02/2010 - 02/2010	FCCS: Neurological Support, Instructor, SCCM Course
03/2010 - 02/2010	Breaking Bad News / Disclosure PGY-1 â€" Surgery And Anesthesia, Course Director

03/2010 - 02/2010	Breaking Bad News / Disclosure PGY-1 â€" Surgery And Anesthesia, Course Director
04/2010 - 04/2010	ABG Interpretation, Instructor, SICU
05/2010 - 02/2010	FCCS: FCCS Course Instructor, Instructor, SCCM Course
05/2010 - 02/2010	FCCS: Airway Management, Instructor, SCCM Course
05/2010 - 05/2010	CCSW: Ventilator Workshop 4h, Course Director
05/2010 - 05/2010	CCSW: Arrhythmia 4h, Course Director
05/2010 - 05/2010	CCSW: Diagnosis Of Critically Ill 4h, Course Director
05/2010 - 05/2010	FCCS: Trauma / Burn Skill Station, SCCM Course
05/2010 - 05/2010	CCSW: Miscellaneous Lectures 1h, Course Director
06/2010 - 02/2010	Intern Boot Camp: Intern Boot Camp, Course Director
06/2010 - 02/2010	Renal Physiology â€" Ca-1 Core Curriculum, Instructor
06/2010 - 06/2010	Introduction To Anesthesia And Crisis Management Simulation Session, Course Director
08/2010 - 08/2010	CCSW: Ventilator Workshop (4 Hours), Course Director
08/2010 - 08/2010	CCSW: Pregnancy (4 Hours), Course Director
08/2010 - 08/2010	Teamwork Day, Instruction And Curriculum Development Team
08/2010 - 08/2010	CCSW: Miscellaneous Lectures (1hour), Course Director
09/2010 - 02/2010	Mock Oral Boards, Mock Oral Examiner
09/2010 - 02/2010	Central Lines Skill Station â€" PGY-1- Surgery And Anesthesia, Course Director
09/2010 - 02/2010	Central Lines Skill Station â€" PGY-1- Surgery And Anesthesia, Course Director
09/2010 - 02/2010	Central Lines Skill Station â€" PGY-1- Surgery And Anesthesia, Course Director
09/2010 - 09/2010	Anesthesia CA-2 Simulation Session, Course Director
10/2010 - 02/2010	Cook Rep Course: Simulation Session, Instructor
10/2010 - 09/2010	Anesthesia CA-3 Simulation Session, Course Director
10/2010 - 10/2010	Cook Critical Care Course, Instructor, VUMC, 2-Â½ day course for the Sales Representatives of Cook Critical Care. This course incorporates both didactic as well as simulation-based teaching on clinical aspect of Cook Products.
11/2010 - 02/2010	FCCS: Shock Skill Station, Instructor, SCCM Course
11/2010 - 02/2010	Ventilator Workshop â€" VDR, Instructor
11/2010 - 02/2010	APRV and VDR, Instructor
11/2010 - 11/2010	Anesthesia CA-1 Simulation Session, Course Director
11/2010 - 11/2010	CCSW: Ventilator Workshop (4 Hours), Course Director
11/2010 - 11/2010	Airway Management, Instructor, SICU
11/2010 - 11/2010	ABG Interpretation, Instructor, SICU
12/2010 - 12/2010	CA-2 Anesthesia Resident Simulation Sessions â€" Continuum, Course Director
01/2011 - 01/2011	Anesthesia CA-3 Simulation Session, Course Director
01/2011 - 02/2011	ACLS Refresher And Teamwork â€" PGY-1 â€" Surgery And Anesthesia, Course Director
01/2011 - 02/2011	ACLS Refresher And Teamwork â€" PGY-1 â€" Surgery And Anesthesia, Course Director
01/2011 - 02/2011	ACLS Refresher And Teamwork â€" PGY-1 â€" Surgery And Anesthesia, Course Director
01/2011 - 02/2011	Ventilator Workshop, Instructor
01/2011 - 02/2011	ACLS And Teamwork, Instructor
02/2011 - 02/2011	Teamwork / ACLS Course for PACU RN's, Instructor
02/2011 - 02/2011	ACLS Refresher And Teamwork â€" PGY-1 â€" Surgery And Anesthesia, Course Director
02/2011 - 02/2011	ACLS Review And Teamwork, Course Director
02/2011 - 02/2011	CCSW: Ventilator Workshop (4 Hours), Course Director
02/2011 - 02/2011	CCSW: Shock (4 Hours), Course Director
02/2011 - 02/2011	CCSW: Arrhythmia (4 Hours), Course Director
02/2011 - 02/2011	Endocrine Issues in the ICU, Instructor
02/2011 - 02/2011	CCSW: Miscellaneous Lectures (1hour), Course Director
02/2011 - 08/2011	FCCS: FCCS Skill Station, Instructor

03/2011 - 03/2011	CA-3 CONTINUUM, Course Director
03/2011 - 03/2011	CA-2 SESSION, COURSE DIRECTOR
03/2011 - 08/2011	Central Lines and Arterial Lines, Instructor
03/2011 - 08/2011	FCCS: FCCS Skill Station, Instructor
03/2011 - 08/2011	ACLS and Teamwork, Instructor
03/2011 - 08/2011	Central Lines and Arterial Lines, Instructor
03/2011 - 08/2011	Acute Kidney Injury, Instructor
04/2011 - 08/2011	FCCS: FCCS Skill Station, Instructor
04/2011 - 08/2011	Shock, Instructor
05/2011 - 2011	Cook Critical Care Course, Instructor, VUMC, 2-Â½ day course for the Sales Representatives of Cook Critical Care. This course incorporates both didactic as well as simulation-based teaching on clinical aspect of Cook Products.
05/2011 - 05/2011	CCSW: Ventilator Workshop 4h, Course Director
05/2011 - 05/2011	CCSW: Arrhythmia 4h, Course Director
05/2011 - 05/2011	CA-2 Continuum, Course Director
05/2011 - 06/2011	Acute Kidney Injury, Instructor
05/2011 - 08/2011	FCCS: Shock Skill Station, Instructor, SCCM Course
06/2011 - 2011	Intern Boot Camp, Course Director
06/2011 - 06/2011	Crisis Management in Anesthesia, Course Director
06/2011 - 06/2011	Introduction to Anesthesia, Course Director
06/2011 - 06/2011	Renal Physiology and Anesthesia â€" Ca-1 Core Curriculum, Instructor
07/2011 - 07/2011	ACLS and Teamwork, Instructor, 7/11/2011. 120mins.
08/2011 - 08/2011	Assessment: Global Skills Assessment for Outgoing Interns, De-Brief, Global Assessment of Intern Skills (IRB approved GIVME grant) Two sessions - 8/20/2012 and 8/27/2012. 120mins each.
08/2011 - 08/2011	CCSW: Arrhythmia, Instructor, CCSW: ACLS / Arrhythmia 4 hours
08/2011 - 08/2011	CCSW: Ventilators, Instructor, CCSW: Mechanical Ventilation 4hours
08/2011 - 08/2011	Central Lines, Instructor, Requested by IM Program Director to help with remediation of IM Resident. 1:1 session for 120 mins
08/2011 - 08/2011	Teamwork Day, Teamwork Day Committee Member
09/2011 - 08/2011	Anesthesia Resident Sim Session: CA-3 Anesthesia Resident Sim Session, Course Director, 9/29/2011. 120mins
09/2011 - 09/2011	CA-2 Anesthesia Resident Sim Session, Course Director, 9/8/11. 120mins
09/2011 - 10/2011	DVT / PE, Instructor, SICU/TICU Lecture series. 9/15/2011. 60 mins
09/2011 - 10/2011	Airway Management, Instructor, 60 mins. 9/13/2011. SICU/TICU lecture series
10/2011 - 2011	Surgery and Anesthesia Intern Sim: Mechanical Ventilation, Instructor, 10/27/2011
10/2011 - 10/2011	Anesthesia Resident Sim Session: CA-2 Anesthesia Resident Sim Session, Course Director, 10/13/2011. 120mins
10/2011 - 10/2011	Perioperative Skills Course: ACLS and Teamwork, Instructor, 10/13/2011. 120 mins
10/2011 - 10/2011	Trauma Fellows Lecture: APRV and VDR, Lecturer, Trauma Fellows Conference 10/13/2011.
11/2011 - 10/2011	Periop Skills Course: ACLS and Teamwork, Instructor, 11/15/11 120 mins
11/2011 - 11/2011	CCSW: Ventilators, Instructor
11/2011 - 11/2011	CCSW: Arrhythmia, Instructor
12/2011 - 10/2011	Burn ICU Simulation Session, Instructor, 12/2/2011 60mins
12/2011 - 12/2011	Cook Critical Care Course, Instructor, VUMC, 2-Â½ day course for the Sales Representatives of Cook Critical Care. This course incorporates both didactic as well as simulation-based teaching on clinical aspect of Cook Products.
12/2011 - 12/2011	Anesthesia Resident Sim Session: CA-1 Anesthesia Residnt Sim Session, Course Director, 12/12/2011. 120mins.
12/2011 - 12/2011	SICU / TICU Lecture Series: Sedation, Instructor, SICU / TICU Lecture Series. 60mins. 12/8/2011
12/2011 - 12/2011	ALI / ARDS, Instructor, 12/6/2011 60 mins
01/2012 - 2012	ICU NP Student: Mechanical Ventilation, Instructor, 1/18/2012. 180 mins. Course conducted by VUSN.
01/2012 - 2012	Intern Skills Assessment: Cumulative Skills Assessment, Assessment and De-brief, 1/1/2012 240mins. GIVME grant Skills assessment.

01/2012 - 01/2012	Intern Skills Assessment: Cumulative Skills Assessment, Assessment and De-Brief, 1/16/2012. Intern Skills Assessment. 240 mins. GIVME.
01/2012 - 01/2012	SICU / TICU lecture: ALI/ARDS, Instructor, 1/26/2012. 60 mins
01/2012 - 01/2012	SICU / TICU Lecture: Mechanical Ventilation, Instructor, 60 mins. 1/24/2012
02/2012 - 2012	CCSW: CCSW: Mechanical Ventilation, Instructor, 2/13/2012. CCSW: Ventilator. 240mins
02/2012 - 02/2012	CCSW: CCSW: Arrhythmia, Instructor, CCSW: Arrhythmia. 2/13/2012. 240 mins.
02/2012 - 02/2012	SICU / TICU lecture: ALI /ARDS, Instructor, 1/26/2012. 60 mins
02/2012 - 02/2012	SICU/TICU Lecture: DVT / PE, Instructor, 2/23/2012. 60 mins.
03/2012 - 2012	Advanced Periop Immersion Course: Central Lines / Airway Management, Course Co-Director, 180mins. 3/1/2012
03/2012 - 03/2012	Advanced Periop Immersion Course: SBAR / Handover, Course Co-Director, 3/20/2012. 180mins
03/2012 - 03/2012	Advanced Periop Immersion Course: Hemorrhage and Hypotensoion, Course Co-Director, 3/20/2102. 180 mins
03/2012 - 03/2012	Anesthesia and Surgical Critical Care Fellows Simulation Session: CCM Fellows Simulation, Instructor, 3/16/2012. 120mins.
03/2012 - 03/2012	Intern Skills Assessment: Cumulative Skills Assessment, Instructor, VUMC, Intern Skills Assessment: Cumulative Skills Assessment, Assessment and Debrief. Surgery and Anesthesia PGY-1 Residents
03/2012 - 03/2012	Intern Skills Assessment: Cumulative Skills Assessment, Instructor, VUMC, Intern Skills Assessment: Cumulative Skills Assessment, Assessment and Debrief. Surgery and Anesthesia PGY-1 Residents
03/2012 - 03/2012	Advanced Periop Immersion Course: Pain and Delirium, Course Co-Director, 90mins. 3/13/2012
03/2012 - 03/2012	Advanced Periop Immersion Course: Arterial Blood Gas and Ventilator Workshop, Course Co-Director, 3/12/2012 150mins
05/2012 - 05/2012	CCSW: CCSW: Ventilator, Instructor, 5/14/2012. 240mins.
05/2012 - 05/2012	CCSW: CCSW: Arrhythmia, Instructor, 5/14/2012. 240mins.
05/2012 - 05/2012	Anesthesia Resident Sim Session: CA-1 Anesthesia Resident Sim, Course Director, 5/31/2012. 120 mins
05/2012 - 05/2012	Anesthsia Resident Simulation Session: Anesthesia Resident Sim Session, Course Director, 5/31/2012. 120mins.
05/2012 - 08/2012	Anesthesia and Surgery Fellows S: Fellows Simulation Session, Instructor, 5/7/2012. 120 mins.
06/2012 - 06/2012	Anesthesia and Surgical Critical Care Fellows Simulation Session. CCM Fellows Simulation, Instructor, VUMC, Anesthesia and Surgical Critical Care Fellows Simulation Session. CCM Fellows Simulation
06/2012 - 06/2012	Anesthesia Resident Simulation Session: Rising CA-1 Simulation Session, Course Director, 6/22/2012. 180mins
06/2012 - 06/2012	Intern Boot Camp, Course Director, 6/28/2012; 6/29/2012. 8 hours
06/2012 - 06/2012	Rising CA-1 Session: Crisis Management, Course Director, 180 minutes 6/21/2012
06/2012 - 06/2012	SICU/TICU Lecture: ALI/ARDS, Instructor, 6/12/2012. 60mins
06/2012 - 06/2012	SICU / TICU lecture: DVT/PE, Instructor, 6/14/2012. 60mins
07/2012 - 2012	Mechanical Ventilation, Instructor, 7/5/2012. 60 minutes
07/2012 - 07/2012	Fellow Teaching Responsibilites, Instructor, 60 mins
08/2012 - 08/2012	FCCS Skill Station: Fundamentals of Critical Care Support, Instructor, VUMC
08/2012 - 08/2012	Critical Care Skills Week: Arrhythmia, Instructor, 8/21/2012 240mins
08/2012 - 08/2012	ACNP Boot Camp: Airway Management, Instructor, 150 mins 8/30/2012
08/2012 - 08/2012	FCCS: Shock, Instructor, 8/11/2012 240mins
08/2012 - 08/2012	Airway Management, Instructor, VUMC, 1 hour Airway Management for General Surgery Residents - organized by the Department of General Surgery
08/2012 - 08/2012	Critical Care Skills Week: Ventilator Workshop, Instructor, 8/24/2012 120mins
09/2012 - 2012	SICU/TICU Lecture Series: ABG Interpretation, Instructor, 9/20/2012 60mins
09/2012 - 09/2012	Mock Oral Board, Mock Oral Board Examiner, 9/4/2012 90 mins
09/2012 - 09/2012	Anesthesia and Surgical Critical Care Fellows Simulation Session. CCM Fellows Simulation, Instructor, VUMC, Anesthesia and Surgical Critical Care Fellows Simulation Session. CCM Fellows Simulation

09/2012 - 09/2012	Cook Critical Care Course, Instructor, VUMC, 2-Â½ day course for the Sales Representatives of Cook Critical Care. This course incorporates both didactic as well as simulation-based teaching on clinical aspect of Cook Products.
09/2012 - 09/2012	FCCS Skill Station: Fundamentals of Critical Care Support, Instructor, VUMC, SCCM Sponsored Course
09/2012 - 09/2012	CA-3 Resident Sim Session: CA-3 Resident Sim Session, Course Director, 9/27/2012 120mins
09/2012 - 09/2012	CCM Immersion Course: Respiratory Physiology Sim, Course Co-Director, 9/7/2012 120mins
09/2012 - 09/2012	CA-3 Resident Sim Session: CA-3 Resident Sim Session, Course Director, 120 mins 9/6/2012
09/2012 - 09/2012	Anesthesia and Surgery Skills Stations: Central Lines, Course Co-Director, 9/19/2012 120mins
09/2012 - 09/2012	Anesthesia and Surgery Skills Stations: Central Lines, Course Co-Director, 120 mins 9/12 /2012
09/2012 - 09/2012	Cook Course: Airwaway Management and Thoracic Drainage, Instructor, 9/10/2012 180mins
09/2012 - 09/2012	Periop Skills Course: SBAR, Instructor, 60mins 9/5/2012
09/2012 - 09/2012	Trauma Fellows Conference: APRV and VDR Physiology, Instructor, 9/20/2012 60mins
09/2012 - 09/2012	SICU/TICU Lecture Series: Mechanical Ventilation, Instructor, 9/18/2012 60mins
09/2012 - 09/2012	SICU/TICU Lecture Series: ARDS/ALI, Instructor, 60 mins 9/13/2012
09/2012 - 09/2012	Fundamental Series - CA-1: Stress Ulcer Prophylaxis and Ventilators, Instructor, 60 mins 9/5/2012
10/2012 - 10/2012	Anesthesia and Surgery Skills Stations: Breaking Bad News, Course Co-Director, 10/18/2012 120mins
10/2012 - 10/2012	SBAR / Handover: Peri operative Skills Course, Instructors, 2 hours
10/2012 - 10/2012	Anesthesia Resident Sim Session CA- 3, Instructor, 2 hours
10/2012 - 10/2012	Anesthesia and Surgical Critical Care Fellows Simulation Session. CCM Fellows Simulation, Instructor, 1 hour
10/2012 - 10/2012	Anesthesia Simulation Session. CA-2 Anesthesia Residents, Instructor, 2 hours
10/2012 - 10/2012	Anesthesia Simulation Session. CA-2 Anesthesia Residents, Instructor, 2 hours
10/2012 - 10/2012	SICU/TICU Lecture Series: ABG Interpretation, Instructor, 10/04/2012 60mins
10/2012 - 10/2012	SICU/TICU Lecture Series: Mechanical Ventilation, Instructor, 10/2/2012 60mins
11/2012 - 2012	Respiratory Pathophysiology Sim: Critical Care Immersion Course VMS IV Respiratory Physiology, Instructor, VUMC, 11/2/2012 1 hour
11/2012 - 2012	Intern Skills Assessment: Cumulative Skills Assessment. Surgery and Anesthesia PGY-1 Residents, Instructor, Assessment and Debrief. 4 hours 11/28/2012
11/2012 - 08/2012	Perioperative Skills Course: SBAR/Handovers. PGY-1 Anesthesia, Instructor, 11/19/2012 1 Hour
11/2012 - 11/2012	Oro-Maxillo facial resident simulation session, Instructor, VUMC, Organize and set up course for OMFS residents.
11/2012 - 11/2012	Critical Care Skills Week: Ventilator Workshop, Instructor, 11/14/2012 4 hours
11/2012 - 11/2012	Anesthesia and Surgical Critical Care Fellows Simulation Session. CCM Fellows Simulation, Instructor, 1 hour
11/2012 - 11/2012	Critical Care Immersion: Respiratory Physiology Simulation Session. VMS IV, Instructor, 11/16/2012 1 hour
11/2012 - 11/2012	Anesthesia Simulation Session. CA-1 Anesthesia Residents, Instructor, 1 hour
11/2012 - 11/2012	APRV / BiVENT, Instructor, VUMC, 1 hour Anesthesia Critical Care Fellows
11/2012 - 11/2012	Renal and Hepatic physiology: Renal and Hepatic physiology. Fundamental Series CA-1, Instructor, VUMC, 1 hour
12/2012 - 12/2012	Intern Skills Assessment: Cumulative Skills Assessment. Surgery and Anesthesia PGY-1 Residents, Instructor, Assessment and Debrief. 4 hours 12/4/2012
12/2012 - 12/2012	Critical Care Fellow â€" Remediation session, Instructor, 2 hours
12/2012 - 12/2012	Anesthesia Simulation Session. CA-1 Anesthesia Residents, Instructor, 2 hours
12/2012 - 12/2012	Anesthesia Simulation Session. CA-1 Anesthesia Residents, Instructor, 2 hours

12/2012 - 12/2012	Intern Skills Assessment: Cumulative Skills Assessment, Assessment and Debrief. Surgery and Anesthesia PGY-1 Residents, Intsructor, 4 hours 12/10/2012
12/2012 - 12/2012	Peri operative Skills Course. SBAR and Handover. PGY-1 Anesthesia Resident Sessions, Instructor, SBAR and Handover. PGY-1 Anesthesia Resident Sessions 1 hour
01/2013 - 01/2013	Anesthesia and Surgical Critical Care Fellows Simulation Session. CCM Fellows Simulation, Instructor
01/2013 - 01/2013	Anesthesia Simulation Session. CA-1 Anesthesia Residents, Instructor
01/2013 - 01/2013	Intern Skills Assessment: Cumulative Skills Assessment. Surgery and Anesthesia PGY-1 Residents, Instructor, Assessment and Debrief.
02/2013 - 02/2013	Peri Operative Immersion Course: SBAR / Handover. VMS IV, Instructor, 1 hour. 2/22/2013
02/2013 - 02/2013	Critical Care Immersion Course: Sepsis Simulation. VMS IV, Instructor, 1 hour 2/1/2013
02/2013 - 02/2013	Critical Care Skills Week: Cardiopulmonary / Cerebral Resuscitation. VMS IV, Instructor, 4 hours. 2/19/2013
02/2013 - 02/2013	Critical Care Skills Week: Neurological Support. VMS IV, Instructor, 4 hours. 2/20/2013
02/2013 - 02/2013	Anesthesia Simulation Session. CA-3 Anesthesia Residents, Instructor
02/2013 - 02/2013	Nutrition, Instructor, VUMC, 1 hour SICU / TICU residents
02/2013 - 02/2013	Acute Kidney Injury, Instructor, VUMC, 1 hour SICU / TICU residents
02/2013 - 02/2013	Intern Skills Session: Ventilator Workshop. PGY-1 Anesthesia and Surgery Residents, Instructor, 2 hours. 3/5/2013
03/2013 - 03/2013	Airway Workshop: Cook Critical Care Course, Instructor, VUMC, 2-Â½ day course for the Sales Representatives of Cook Critical Care. This course incorporates both didactic as well as simulation-based teaching on clinical aspect of Cook Products.
03/2013 - 03/2013	Anesthesiology Resident Simulation Session. CA-3 Anesthesiology Residents., Instructor, 2 hours 3/21/2013
03/2013 - 03/2013	FCCS Skill Station: Fundamentals of Critical Care Support, Instructor, VUMC, SCCM
03/2013 - 03/2013	ALI / ARDS, Instructor, VUMC, 1 hour SICU / TICU lecture series
03/2013 - 03/2013	Sedation and Delirium, Instructor, VUMC, 1 hour SICU / TICU residents
05/2013 - 05/2013	Mock Oral Boards, Mock Oral Board Examiner, VUMC, 2 hours. 5/28/2013
05/2013 - 05/2013	Critical Care Skills Week: Ventilator Workshop. VMS IV., Instructor, 4 hours. 5/21/2013
05/2013 - 05/2013	Anesthesiology Resident Simulation Session: CA-3 Residents, Instructor, 2 hours. 5/24/2013
05/2013 - 05/2013	Critical Care Skills Week: Trauma Burn and Fluid Management. VMS IV, Instructor, 4 hours. 5/23/2013
05/2013 - 05/2013	Fundamentals of Critical Care Support. Ventilator II Skills Station., 3 hours. 5/4/2013.
05/2013 - 05/2013	Hematology. Fundamental CA - 1 Series, Instructor, VUMC, 1 hour
06/2013 - 05/2013	Anesthesiology Resident Simulation Session: Introduction to Anesthesia. CA-0 Residents., Instructor, 3 hours. 6/10/2013. PM session
06/2013 - 05/2013	Anesthesiology Resident Simulation Session: Introduction to Anesthesia. CA-0 Residents, Instructor, 3 hours. 6/10/2013. AM session
06/2013 - 06/2013	Anesthesiology Resident Simulation Session: Introduction to Anesthesia. CA-0 Residents, Instructor, 3 hours. 6/12/2013.
06/2013 - 06/2013	Anesthesiology Resident Simulation Session: Crisis Management in Anesthesia. CA-0 Residents, Instructor, 3 hours. 6/17/2013.
07/2013 - 07/2013	Critical Care Medicine Basics: Simulation Session. VMS II, Instructor, 2 hours. 7/12/2013
07/2013 - 07/2013	Critical Care Fellows Simulation: Introduction to Simulation. Critical Care Fellows, Instructor, 1 hour. 7/26/2013
07/2013 - 07/2013	SICU Lecture Series: Sedation / Delirium. SICU Residents and Fellows, Instructor, 1 hour. 7/23/2013
07/2013 - 07/2013	SICU Lecture Series: Arrhythmia. SICU Residents and Fellows., Instructor, 1 hour. 7/25/2013.
08/2013 - 2013	Anesthesiology Resident Simulation Session. CA-3 Residents, Instructor, 2 hours. 8/15/2013.
08/2013 - 08/2013	Intern Skills Session: US Guided Central Line Placement. PGY-1 Surgery and Anesthesia Residents., Instructor, 2 hours. 8/29/2013

08/2013 - 08/2013	Anesthesiology Resident Simulation Session. CA-3 Residents, Instructor, 2 hours. 8/29/2013
08/2013 - 08/2013	Intern Skills Session: ACLS Mock Code. PGY-1 Surgery and Anesthesia Residents., Instructor, 2 hours. 8/22/2013
08/2013 - 08/2013	Intern Skills Session: ACLS Mock Code. PGY-1 Surgery and Anesthesia Residents., Instructor, 2 hours. 8/15/2013
08/2013 - 08/2013	Intern Skills Session: ACLS Mock Code. PGY-1 Surgery and Anesthesia Residents., Instructor, 2 hours. 8/1/2013
08/2013 - 08/2013	Management of Hypoxemia in the ICU: Beyond Intubation. Anesthesia CCM Fellows, Instructor, 1 hour. 8/30/2013
09/2013 - 09/2013	Intern Skills Session: US Guided Central Line placement. PGY-1 Anesthesia and Surgery Residents., Instructor, 2 hours. 9/19/2013
09/2013 - 09/2013	Anesthesiology Resident Simulation Session. CA-2 Residents, Instructor, 2 hours. 9/19/2013
09/2013 - 09/2013	Fellows Combined SCC Conference.VDR and APRV Workshop. CCM Faculty and Fellows (Surgery and Anesthesia), Instructor, 1 hour. 9/19/2013
09/2013 - 09/2013	SICU Lecture Series: ALI / ARDS. SICU Residents and Fellows., Instructor, 1 hour. 9/5/2013
09/2013 - 09/2013	SICU Lecture Series: Mechanical Ventilation. SICU Residents and Fellows., Instructor, 1 hour. 9/3/2013
09/2013 - 09/2013	ABA Anesthesia Lecture Series: Cardiovascular Physiology and Anesthesia. CA-1 Anesthesia Residents., Instructor, 1 hour. 9/4/2013
10/2013 - 10/2013	Critical Care Immersion Course: Simulation Session. VMS IV, Instructor, 3 hours 10/21/2013
10/2013 - 10/2013	Critical Care Skills Week: Fluid and Electrolyte Management. VMS IV., Instructor, 4 hours. 10/1/2013
10/2013 - 10/2013	Anesthesiology Resident Simulation Session. CA-1 Residents, Instructor., 2 hours 10/24/2013
10/2013 - 10/2013	Critical Care Skills Week: Ventilator Workshop. VMS IV., Instructor, 4 hours. 10/2/2013
10/2013 - 10/2013	Critical Care Immersion Course: Coagulopathies. VMS IV, Instructor, 1 hour. 10/21/2013
10/2013 - 10/2013	Critical Care Immersion Course: Journal Club. VMS IV, Instructor, 1 hour. 10/21/2013
11/2013 - 11/2013	Anesthesiology Resident Simulation Session. CA-3 Residents, Instructor, 2 hours. 11/14/2013
11/2013 - 11/2013	ABA Anesthesia Lecture Series: Management of Patients with Fluid and electrolyte disturbances. CA-1 Anesthesia Residents., Instructor, 1 hour. 11/27/2013
11/2013 - 11/2013	Critical Care Medicine Basics: Monitoring Oxygen balance / Monitoring Acid Base balance. VMS II, Instructor, 1 hour. 11/8/2013
12/2013 - 12/2013	SICU Lecture Series: Mechanical Ventilation. SICU Residents and Fellows., Instructor, 1 hour. 12/24/2013
12/2013 - 12/2013	SICU Lecture Series: ALI / ARDS. SICU Residents and Fellows., Instructor, 1 hour. 12/26/2013
02/2014 - 02/2014	Critical Care Skills Week: Trauma Burn and Fluid Management. VMS IV., Instructor, 4 hours. 2/7/2014
02/2014 - 02/2014	Anesthesiology Resident Simulation Session. CA-2 Residents, Instructor, 2 hours. 2/13/2014.
02/2014 - 02/2014	Critical Care Immersion Course: Simulation Session. VMS IV, Instructor, 3 hour. 2/17/2014
02/2014 - 02/2014	Anesthesiology Resident Simulation Session. CA-1 Residents, Instructor, 2 hours. 2/27/2014.
02/2014 - 02/2014	Intern Skills Assessment: Cumulative Skills Assessment. Surgery and Anesthesia PGY-1 Residents, Instructor, 2 hours 2/20/2014
02/2014 - 02/2014	ABA Anesthesia Lecture Series: Thermoregulation, Hypothermia, & Malignant Hyperthermia / Nutrition in Peri operative and Critical Care Medicine. CA-1 Anesthesia Residents., Instructor, 1 hour. 2/26/2014
02/2014 - 02/2014	Critical Care Immersion Course: Case Presentation. VMS IV, Instructor, 3 hours. 2/12/2014
02/2014 - 02/2014	Intro to Surgical Internship: Airway Management. VMS IV, Instructor, 2 hours. 2/18/2014
02/2014 - 02/2014	Critical Care Immersion Course: Oximetry and Capnography. VMS IV, Instructor, 1 hour. 2/17/2014

02/2014 - 02/2014	Critical Care Immersion Course: Valve Management Physiology. VMS IV, Instructor, 1 hour. 2/12/2014
02/2014 - 02/2014	Critical Care Immersion Course: Journal Club. VMS IV, Instructor, 30 mins. 2/12/2014
02/2014 - 02/2014	Critical Care Immersion Course: Journal Club. VMS IV, Instructor, 30 mins. 2/17/2014
03/2014 - 03/2014	Mock Oral Boards, Instructor, 3/13/2014
03/2014 - 03/2014	Anesthesiology Resident Simulation Session. CA-1 Anesthesia Resdient, Instructor, 2 hours 3/13/2014
04/2014 - 04/2014	Critical Care Skills Week: Trauma Burn and Fluid Management. VMS IV., Instructor, 4 hours. 4/4/2014
04/2014 - 04/2014	VC3 EPA / Milestones Assessment. VMS IV, Course Development, 4/14/2014
04/2014 - 04/2014	Critical Care Skills Week: Diagnosis and Management of Shock. VMS IV., Instructor, 4 hours. 4/3/2014.
04/2014 - 04/2014	Ventilator Workshop, Instructor, 2 hours 4/17/2014
04/2014 - 04/2014	ABA Anesthesia Lecture Series: Inhalation Anesthetics. CA-1 Anesthesia Residents., Instructor, 1 hour 4/7/2014
04/2014 - 04/2014	ABA Anesthesia Lecture Series: Intravenous Anesthetics / Analgesics. CA-1 Anesthesia Residents., Instructor, 1 hour 4/2/2014
06/2014 - 06/2014	Anesthesia Resident Simulation Session: Vigilance: Recognizing Critical Events & Initiation Management. CA-0 Anesthesia Residents., Instructor, 3 hours 6/18/2014
06/2014 - 06/2014	Anesthesia Resident Simulation Session: Vigilance: Recognizing Critical Events & Initiation Management. CA-0 Anesthesia Residents., Instructor, 3 hours. 6/17/2014
08/2014 - 08/2014	Intern Skill Stations Rapid Responses Surgery and Anesthesiology Interns, Instructor, 8/12/2014 3:30:00 PM 8/12/2014 5:30:00 PM
08/2014 - 08/2014	CCM Anesthesiology Fellows Lecture Management of Hypoxemia in the ICU: Beyond Intubation CCM Anesthesiology & Surgical Fellows, Instructor, 8/19/2014 12:00:00 PM 8/19/2014 1:00:00 PM
08/2014 - 08/2014	ABA Basic Topics in Anesthesiology Cardiovascular Physiology & Anesthesia CA-1s, Instructor, 8/20/2014 6:30:00 AM 8/20/2014 7:30:00 AM
09/2014 - 09/2014	Anesthesia Resident Simulation Session - CA-2 Anesthesia Resident, Instructor, 9/25/2014 9:30:00 AM 9/25/2014 11:30:00 AM
09/2014 - 09/2014	Anesthesia Resident Simulation Session - CA-2 Anesthesia Resident, Instructor, 9/18/2014 9:30:00 AM 9/18/2014 11:30:00 AM
09/2014 - 09/2014	SICU/TICU Resident Lecture Sepsis/Shock SICU/TICU Residents, Instructor, 9/9/2014 1:00:00 PM 9/9/2014 2:00:00 PM
09/2014 - 09/2014	SICU/TICU Resident Lecture Sepsis/Shock SICU/TICU Residents, Instructor, 9/9/2014 1:00:00 PM 9/9/2014 2:00:00 PM
09/2014 - 09/2014	SICU/TICU Resident Lecture Series Acute Kidney Injury SICU/TICU Residents, Instructor, 9/11/2014 1:00:00 PM 9/11/2014 2:00:00 PM
10/2014 - 10/2014	Anesthesia Resident Simulation Session - CA-2 Anesthesia Residents, Instructor, 10/9/2014 9:30:00 AM 10/9/2014 11:30:00 AM
10/2014 - 10/2014	Critical Care Skills Week Ventilator Workshop VMS I, Instructor, 10/2/2014 10:00:00 AM 10/2/2014 12:00:00 PM
10/2014 - 10/2014	SICU/TICU Resident Lecture - Arrhythmias - SICU/TICU Residents, Instructor, 10/16/2014 1:00:00 PM 10/16/2014 2:00:00 PM
10/2014 - 10/2014	Critical Care Skills Week Ventilator Workshop VMS IV, Instructor, 10/2/2014 8:00:00 AM 10/2/2014 10:00:00 AM
10/2014 - 10/2014	Critical Illness Immersion Simulation VMS IV, Instructor, 10/24/2014 11:00:00 AM 10/24/2014 12:30:00 PM
10/2014 - 10/2014	Critical Illness Immersion CBL VMS IV, Instructor, 10/24/2014 9:00:00 AM 10/24/2014 11:00:00 AM
11/2014 - 11/2014	Intern Skills Session Breaking Bad News Surgical & Anesthesiology Interns, Instructor, 11/6/2014 3:30:00 PM 11/6/2014 5:30:00 PM
12/2014 - 12/2014	Fellows Simulation Simulation CCM Anesthesia & Surgery Fellows, Instructor, 12/12/2014 12:00:00 PM 12/12/2014 2:00:00 PM
12/2014 - 12/2014	Intern Skills Session Breaking Bad News Surgical & Anesthesiology Interns, Instructor, 12/4/2014 12:00:00 PM 12/4/2014 1:00:00 PM
12/2014 - 12/2014	Fellows Combined SCC Conference VDR Workshop CCM Faculty and Fellows (Surgery and Anesthesia), Instructor, 12/4/2014 12:00:00 PM 12/4/2014 1:00:00 PM

12/2014 - 12/2014	SICU/TICU Resident Lecture Series Acute Kidney Injury SICU/TICU Residents, Instructor, 12/4/2014 1:00:00 PM 12/4/2014 2:00:00 PM
12/2014 - 12/2014	SICU/TICU Resident Lecture Series Sepsis/Shock SICU/TICU Residents, Instructor, 12/2/2014 1:00:00 PM 12/2/2014 2:00:00 PM
01/2015 - 01/2015	Resident Simulation: Anesthesia Resident Simulation Session - CA3 Anesthesia Residents, Instructor, 1/15/2015 9:30:00 AM 1/15/2015 11:30:00 AM
01/2015 - 01/2015	Assessment Session: Global Assessments for Anesthesiology and Surgical Interns, Instructor, 1/29/2015 2:15:00 PM 1/29/2015 3:30:00 PM
01/2015 - 01/2015	Anesthesia Resident Simulation Session: Anesthesia Resident Simulation Session - CA-2 Anesthesia Residents, Instructor, 1/29/2015 9:30:00 AM 1/29/2015 11:30:00 AM
01/2015 - 01/2015	CC VUSN Intensivist Course: Advanced Mechanical Ventilation, Instructor, 1/28/2015 1:30:00 PM 1/28/2015 4:30:00 PM
02/2015 - 02/2015	Ventilator Workshop, Instructor, 2/19/2015 3:45:00 PM 2/19/2015 5:30:00 PM
02/2015 - 02/2015	Fellows Combined SCC Conference Ventilator CCM Faculty and Fellows (Surgery and Anesthesia), Instructor, 2/19/2015 12:00:00 PM 2/19/2015 2:00:00 PM
02/2015 - 02/2015	Neuro ICU Conference Intracranial Hypertension NCU Residents, Instructor, 2/3/2015 1:00:00 PM 2/3/2015 2:00:00 PM
02/2015 - 02/2015	Neuro ICU Conference Subarachnoid Hemorrhage NCU Residents, Instructor, 2/4/2015 1:00:00 PM 2/4/2015 2:00:00 PM
02/2015 - 02/2015	Critical Illness Immersion Course CBL VMS III & IV, Instructor, 2/25/2015 9:00:00 AM 2/25/2015 11:00:00 AM
02/2015 - 02/2015	Critical Illness Immersion Course CBL VMS III & IV, Instructor, 2/23/2015 9:00:00 AM 2/23/2015 11:00:00 AM
02/2015 - 02/2015	Critical Illness Immersion Simulation VMS III and IV, Instructor, 2/27/2015 11:00:00 AM 2/27/2015 12:30:00 PM
02/2015 - 02/2015	Critical Illness Immersion CBL VMS III and IV, Instructor, 2/27/2015 9:00:00 AM 2/27/2015 11:00:00 AM
03/2015 - 03/2015	SICU/TICU Resident Lecture Series Acute Kidney Injury SICU/TICU Residents, Instructor, 3/26/2015 1:00:00 PM 3/26/2015 2:00:00 PM
03/2015 - 03/2015	SICU/TICU Resident Lecture Series Sepsis/Shock SICU/TICU Residents, Instructor, 3/24/2015 1:00:00 PM 3/24/2015 2:00:00 PM
03/2015 - 03/2015	ABA Lecture Inhalation Anesthetics CA-1s, Instructor, 3/25/2015 6:30:00 AM 3/25/2015 7:30:00 AM
04/2015 - 04/2015	Anesthesia Resident Simulation Session - CA-1 Anesthesia Resident, Instructor, 4/23/2015 9:30:00 AM 4/23/2015 11:30:00 AM
04/2015 - 04/2015	Anesthesia Resident Simulation Session - CA-1 Anesthesia Resident, Instructor, 4/2/2015 1:00:00 PM 4/2/2015 3:00:00 PM
04/2015 - 04/2015	Critical Care Skills Week Cardiopulmonary/Cerebral Resuscitation VMS III & IV, Instructor, 4/2/2015 10:30:00 AM 4/2/2015 12:30:00 PM
04/2015 - 04/2015	Critical Care Skills Week Ventilator Workshop Ventilator Workshop VMS III & IV, Instructor, 4/2/2015 8:30:00 AM 4/2/2015 10:
04/2015 - 04/2015	Critical Care Skills Week Ventilator Workshop VMS III & IV, Instructor, 4/1/2015 10:00:00 AM 4/1/2015 12:00:00
04/2015 - 04/2015	Critical Care Skills Week Ventilator Workshop Ventilator Workshop VMS III & IV, Instructor, 4/1/2015 8:00:00 AM 4/1/2015 10:00:00 AM
05/2015 - 05/2015	Oral Board Practice Exam Practice CA-2s & CA-3s, Instructor, 5/21/2015 5:00:00 PM 5/20/2015 7:00:00 PM
05/2015 - 05/2015	Oral Board Practice Exam Practice CA-2s & CA-3s, Instructor, 5/12/2015 5:00:00 PM 5/12/2015 7:00:00 PM

Research Supervision / Mentorship

07/2008 - 07/2009	Jordan Stuckey Vanderbilt University Medical Center, Current Position: CA-3. (Resident, General Mentorship)
07/2008 - 07/2009	Kori Turner Vanderbilt University Medical Center, Current Position: PGY-1 Anesthesia. (Resident, General Mentorship)
07/2009 - 07/2010	Lori Keifer Vanderbilt University Medical Center, Current Position: PGY-1 Anesthesia. (Resident, General Mentorship)
07/2010 - 06/2011	Elizabeth Embury, M.D. Vanderbilt University Medical Center, Current Position: PGY-1 Anesthesia. (Resident, General Mentorship)

07/2010 - 07/2011	Elizabeth Embury Vanderbilt University Medical Center, Current Position: PGY-1 Anesthesia. (Resident, General Mentorship)
07/2012 - Present	Nora Azzazy, M.D. Vanderbilt University Medical Center, Current Position: Fellow CCM. (Post-doc Fellow, General Mentorship)
07/2013 - Present	Kyla Terhune, M.D. VUMC, Current Position: Assistant Professor. (Faculty, General Mentorship)
07/2013 - Present	Tracy McGrane, M.D. VUMC, Current Position: Assistant Professor. (Faculty, General Mentorship)
07/2014 - Present	Ric Sedlak Vanderbilt University Medical Center, Current Position: CA-1. (Resident, General Mentorship)
07/2014 - Present	Matthew Parks Vanderbilt University Medical Center, Current Position: CA-1. (Resident, General Mentorship)
10/2014 - Present	Elizabeth Self Vanderbilt University, Current Position: Doctoral Candidate Peabody College,. (Post-doc Fellow, Education)

Other Significant Activities

03/2014	Reviewer for Standing Assessment Committee: Homeostasis Course Review

Grants and Funding

Grant number unavailable N/A
Charles River Analytics Inc.
Monitoring, Extracting, and Decoding Indicators of Cognitive Load (MEDIC II)
Role: Principal Investigator

Grant number unavailable Vanderbilt University School of Medicine (PI) 2006 - 2011
Course Director, Critical Care Skills Week
Funded Academic Position
Role: Consultant

Grant number unavailable Matthew Weinger (PI) 09/2006 - 09/2009
Agency for Healthcare Research and Quality
STRAIT: Simulation Training of Rapid Assessment and Improved Teamwork
Role: Co-Investigator

Grant number unavailable 2010 - 2011
GIVME
A Cumulative Assessment of Simulated Surgical Skills Instruction
Role: Co-Principal Investigator

Grant number unavailable Matthew Weinger (PI) 2010 - 03/2012
Agency for Healthcare Research and Quality
HS20415-01 CREATING SIMULATION-BASED PERFORMANCE ASSESSMENT
Role: Co-Investigator

Grant number unavailable 07/2011 - Present
VUSM
Director, Center for Experiential Learning and Assessment
Role: Consultant

Grant number unavailable 07/2011 - 06/2013
Vanderbilt University School of Medicine
Director Simulation Technologies Program - CELA
Funded Academic Position
Role: Consultant

Grant number unavailable 07/2012 - 07/2014

FAER
Factors Contributing to Global Subjective Clinical Assessment
Role: Principal Investigator

Honors / Awards

2006	Golden Apple Award for excellence in Teaching, Department of Anesthesiology, VUMC
2007	Golden Apple Award for excellence in Teaching, Department of Anesthesiology, VUMC
2010	Best Poster Presentation: "Introducing Fundamentals of Critical Care Support (FCCS) into the Undergraduate Medical Curriculum - An Innovative Pilot Curriculum Program", Vanderbilt Research Symposium
2011	Faculty with Distinction for Educator Development Program, OTLM
2012	Golden Apple Award for Excellence inTeaching, Department of Anesthesiology, VUMC

Publications

Peer Reviewed Publications

Research Articles

1. Matthew B. Weinger, MD, Arna Banerjee, MD, Jason Slagle, PhD, Ray Booker, Anne Miller, RN, PhD, Dan France, PhD, Lisa Rawn. A Simulation-Based Curriculum to Introduce Key Teamwork Principles to Entering Medical Students (In Preparation). Submitted to BMC Education for consideration.
2. Danzo BJ, Shappell HW, **Banerjee A**, Hachey DL. Effects of nonylphenol, 1,1-dichloro-2,2-bis(p-chlorophenyl)ethylene (p,p'-DDE), and pentachlorophenol on the adult female guinea pig reproductive tract. Reproductive toxicology (Elmsford, N.Y.) 2002; 16(1):29-43. PMID: 11934530.
3. Pandharipande P, **Banerjee A**, McGrane S, Ely EW. Liberation and animation for ventilated ICU patients: the ABCDE bundle for the back-end of critical care. Critical care (London, England) 2010; 14(3):157. PMID: 20497606 PMCID: PMC2911702.
4. **Banerjee, A**, McGrane S, Pandharipande, P. Minimizing perioperative sedation to reduce delirium. . Future Neurology 2010 May;5(3):357-361.
5. Hughes CG, Weavind L, **Banerjee A**, Mercaldo ND, Schildcrout JS, Pandharipande PP. Intraoperative risk factors for acute respiratory distress syndrome in critically ill patients. Anesthesia and Analgesia 2010 Aug;111(2):464-7. PMID: 20418537.
6. **Banerjee A**, Girard TD, Pandharipande P. The complex interplay between delirium, sedation, and early mobility during critical illness: applications in the trauma unit. Current opinion in anaesthesiology 2011 Apr;24(2):195-201. PMID: 21386669.
7. **Banerjee A**, Stoica C, Walia A. Acute hyperkalemia as a complication of intravenous therapy with epsilon-aminocaproic acid. Journal of clinical anesthesia 2011 Nov;23(7):565-8. PMID: 22050802.
8. Walia A, Mandell MS, Mercaldo N, Michaels D, Robertson A, **Banerjee A**, Pai R, Klinck J, Weinger M, Pandharipande P, Schumann R. Anesthesia for liver transplantation in US academic centers: institutional structure and perioperative care. Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society 2012 Jun;18(6):737-43. PMID: 22407934.
9. Schumann R, Mandell MS, Mercaldo N, Michaels D, Robertson A, **Banerjee A**, Pai R, Klinck J, Pandharipande P, Walia A. Anesthesia for liver transplantation in United States academic centers: intraoperative practice. 2013 Nov;25(7):542-550. PMID: 23994704.
10. Weinger MB, Slagle JM, Kuntz AH, Schildcrout JS, **Banerjee A**, Mercaldo ND, Bills JL, Wallston KA, Speroff T, Patterson ES, France DJ. A Multimodal Intervention Improves Post-Anesthesia Care Unit Handovers. Anesthesia and analgesia 2015 Mar; PMID: 25806398.
11. Semler MW, Keriwala RD, Clune JK, Rice TW, Pugh ME, Wheeler AP, Miller AN, **Banerjee A**, Terhune K, Bastarache JA. A Randomized Trial Comparing Didactics, Demonstration, and Simulation for Teaching Teamwork to Medical Residents. Annals of the American Thoracic Society 2015 Mar;12(4):512-519. PMID: 25730661.

Review Articles

1. **Banerjee A**, Vasilevskis E, Pandharipande P. Strategies to Improve Delirium Assessment Practices in the Intensive Care Unit. J Clinical Outcomes Management 2010 Oct;17(10):459-468.

Abstracts

1. Walters, J., M.D., **Banerjee, A**., M.D. Difficult airway management of large goiter with tracheal compression. Proc Am Soc Anesthesiol Ann Mtg MC 361. 2012. Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
2. Okwuezee, M., **Banerjee, A**. Minimizing Cerebral Edema in a Complicated AVM resection. American Society of Anesthesiology Annual Mtg 2006; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
3. Harrison, S., **Banerjee, A**. To treat or not to treat unexpected pulmonary hypertension. Am Soc Anesthesiol Ann Mtg 2007; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting) .
4. Gunn, C., **Banerjee, A**. TRALI. Am Soc Anesthesiol Ann Mtg 2007; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
5. Franklin, A., **Banerjee, A**. Sub-cutaneous emphysema. Am Soc Anesthesiol Ann Mtg 2007; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting) .
6. **Banerjee, A**., Weinger,. Critical care skills week - A simulation based curriculum to teach critical care to third year medical students. Crit Care Med 2007; 35(12).
7. Franklin, A., **Banerjee, A**. Cricoaretynoid arthritis. Am Soc Anesthesiol Ann Mtg 2007; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
8. Nahrwold, D., **Banerjee, A**. Autonomic hyperreflexia in a quadraplegic following urological surgery. Am soc Anesthesiol ann mtg 2007; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
9. Canlas, C., **Banerjee, A**. Reperfusion Injury of the Right Lung S/p MINI MVR. Am Soc Anesthesiol Ann Mtg 2007; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
10. Pope, J., **Banerjee, A**. Ventilator weaning induced asystole. Am Soc Anesthesiol Ann Mtg 2007; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
11. Okwueze, M., M.D., **Banerjee, A**., M.D., Cunningham, G., B.S., Summar, M., M.D., Thompson, R., M.D. Biological markers in patients with cerebral vasospasm following aneurysmal subarachnoid hemorrhage. Proc Am Soc Anesthesiol Ann Mtg 2008; A 903.
12. **Banerjee, A**., Barwise, J., Parmley, C. L. and Weinger, M. A simulation-based curriculum to teach anesthesia and critical care to third year medical students. Proc Am Soc Anesthesiol Ann Mtg 2008; A 412.
13. **Banerjee, A**., Weinger, M. B., Slagle, J., Miller, A., and France, D. Teamwork Day - A novel daylong simulation-based learning experience for new medical students . Proc Am Soc Anesthesiol Ann Mtg 2008; A 409.
14. Walton, S., **Banerjee, A**. Hemodynamic challenges of the post-radiated chest. Am Soc Anesthesiol Ann Mtg 2008; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).
15. Slage, J., Weinger, M. B., **Banerjee, A**., Miller, A., Booker, R., and France, D. Teamwork Day - A novel daylong simulation-based learning experience for new medical students. Proc SGEA Mtg 2009; 255 (O).
16. Terhune, K., J. Easdown, **Banerjee, A**. Assessing percieved usefulness of a clinical orientation program for anesthesia and surgery interns. Proc Am Soc Anesthesiol Ann Mtg 2009; A 447.
17. **Banerjee, A**. M.D., Slagle, J. Ph.D., Kuntz, A. R.N., Weinger, M, M.D. A handoff training and improvement initiative â€" the curriculum design. Proc Am Soc Anesthesiol Ann Mtg 2009; A 1606.
18. Hughes, C G, M.D., Weavind, L, M.D.,**Banerjee, A**., M.D., Pandharipande, P., M.D. Intraoperative anesthetic characteristics and the development of ARDS: a pilot study. Proc Am Soc Anesthesiol Ann Mtg 2009; A 1447.
19. Hughes, C G, M.D., Weavind, L, M.D., **Banerjee, A**., M.D., Pandharipande, P., M.D. Intraoperative anesthetic characteristics and the development of ARDS: a pilot study. Association of University Anesthesiologists. 57th Annual Mtg 2009.
20. Weinger, M.B., M.D., Slagle, J.M., Ph.D., Kuntz, A., Ed.D., R.N., **Banerjee, A**., M.D., Schildcrout, J., Ph.D., Mercaldo, N., M.S., France, D., Ph.D., M.P.H., Speroff, T., Ph.D., Bills, J., Ed.D. Wallston, K., Ph.D. on behalf of the PACU Handover Improvement Team. Improving actual handover behavior with a simulation-based training intervention. Proceedings of the Human Factors and Ergonomics Society Annual Meeting 2009.
21. 24. Turner, K., **Banerjee, A**. Somnolence after lipophilic beta blocker therapy. Am Soc Anesthesiol Ann Mtg 2009; Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting).

22. **Banerjee, A**., M.D., Slagle, J., Ph.D., Kuntz, A., R.N., Weinger, M., M.D. A handoff training and improvement initiative â€" the curriculum design. American Academy of Communication in Healthcare 2009; Miami, FL.
23. **Banerjee, A**., Oâ€™Byrne, W., Barwise, J., Weavind, L. Introducing fundamentals of critical care support (FCCS) into the undergraduate medical curriculum? An innovative pilot curriculum program. Critical Care Medicine (Supplement, Society of Critical Care Medicineâ€™s 39th Critical Care Congress Abstract) 2009; 37(12):A280 (579) .
24. Tomlinson, R., MD, Easdown, J., MD, **Banerjee, A**., MD. Simulation for the developing world. Proc Am Soc Anesthesiol Ann Mtg 2011; A 153.
25. Walters, J., M.D., **Banerjee, A**., M.D. Third degree heart block following spinal anesthesia. Proc Am Soc Anesthesiol Ann Mtg 2012; MC 362. Medically Challenging Case Presentation. (Resident Mentored Presentation at a National Meeting) .
26. **Banerjee, A**., M.D. McGrane, S., M.D. Barwise, J., M.D., Weinger, M.B., M.D. Introducing Fundamentals Of Critical Care Support (FCCS) Into The Undergraduate Medical Curriculum - An Innovative Pilot Curriculum Program. Association of University Anesthesiologists. 60th Annual Mtg 2013.

Non-Peer Reviewed Publications

Book Chapters

1. **Banerjee A**, Easdown J, Weinger MB. Anesthesia Equipment and Patient Safety. The MGH Textbook of Anesthetic Equipment. Editors: Sandberg WS, Urman RD, Ehrenfeld JM. Philadelphia, Pennsylvania, United States: Elseveir; 2010; 1-9.
2. **Banerjee A**, Pandharipande P. Delirium. Conn's Current Therapy 2010. Editors: Bope ET, Rakel RE, Kellerman RD. Philadelphia, PA: Saunders/Elsevier.; 2010; 62nd ed 1117.
3. **Banerjee, A**. Crush Injury, Crush Syndrome, Traumatic Rhabdomyolysis, Muscle Reperfusion syndrome. . Decision Support in Medicine. Program - Critical Care Medicine. Editors: Kellum, Fortenberry, Fuchs and Shaw. 2011.
4. **Banerjee A**, Pandharipande P. Delirium. Conn's Current Therapy 2011. Editors: Bope ET, Rakel RE, Kellerman RD. Philadelphia, Pennsylvania, United States: Saunders; 2011; 1128.
5. **Banerjee A**, Ely, W E, Pandharipande, P P. Agitation and Delirium. Textbook of Critical Care 2011. Editors: Fink, Abraham, Vincent . Philadelphia, Pennsylvania, United States: Saunders/Elsevier.; 2011; Chapter 2, Page 8.
6. **Banerjee A**, Pandharipande P. Sedation, Analgesia and Delirium. Critical Care Secrets. 5th edition. Editors: Parsons PE, Wiener-Kronish P. Philadelphia, Pennsylvania, United States: Saunders/Elsevier; 2012; Chapter 73.
7. **Banerjee A**, Pandharipande P. Delirium. Conn's Current Therapy 2012. Editors: Bope ET, Rakel RE, Kellerman RD. Philadelphia, Pennsylvania, United States: Saunders/Elsevier; 2012; Chapter 16.
8. Easdown, L. J., **Banerjee, A**, and Weinger, M. B. Simulation for assessing human responses to critical events. The Oxford Handbook of Cognitive Engineering (Oxford Library of Psychology) . Editors: Lee, J. D. and Kirlik, A. New York, New York, United States: Oxford University Press; 2013; Chapter 21.
9. **Banerjee A**, Pandharipande P. Delirium. Conn's Current Therapy 2013. Editors: Bope ET, Rakel RE, Kellerman RD. Philadelphia, Pennsylvania, United States: Saunders/Elsevier; 2013; Page 932.
10. **Banerjee A**, Pandharipande P. Delirium. Conn's Current Therapy 2014. Editors: Bope ET, Rakel RE, Kellerman RD. Philadelphia, Pennsylvania, United States: Saunders/Elsevier; 2014; Page 942.
11. Pandharipande, Pratik, **Banerjee, A**rna, Ely, E. Wesley. Preventing Suffering In the ICU | How Does One Diagnose, Treat, and Reduce Delirium in the Intensive Care Unit? . Evidence-Based Practice of Critical Care, 2nd edition. Editors: Deutschman, Clifford S. Neligan, Patrick. 2015; Section 16.

Conference Proceedings

1. Weinger, M., Slagle, J., Kuntz, A., **Banerjee, A**., Schildcrout, J., Mercaldo, N., France, D., Speroff, T., Bills, J. Wallston, K. Improving actual handover behavior with a simulation-based training intervention. Proceedings of the Human Factors and Ergonomics Society Annual Meeting. 2010 Sep;54th Annual Meeting.

Presentations

Internal Grand Rounds

1. Anesthesiology Grand Rounds. Department of Vanderbilt University School of Medicine; Nashville, Tennessee. 2007 Jan; Acute Lung Injury and Refractory Hypoxemia.

2. Anesthesiology Grand Rounds. Department of Anesthesiology, Vanderbilt University School of Medicine; Nashville, Tennessee. 2009 Jun; Initiation of a Structured Orientation Program for Anesthesia and Surgery Interns.
3. Medical Education Grand Rounds. Vanderbilt University School of Medicine; Nashville, Tennessee. 2013 Jan; Five Years Down the Road: Simulation at Vanderbilt. Where we are and where we want to go.

Workshop

1. Arna Banerjee. IARS. IARS; Orlando, Florida. 2007; Transthoracic Echo Workshop.
2. Vanderbilt University School of Medicine; Nashville, Tennessee. 2009; Latin American Intensivist Simulation Session.
3. Arna Banerjee. American Society of Anesthesiology Annual Meeting. American Society of Anesthesiology; New Orleans, Louisiana. 2009; 10; Society for Education in Anesthesiology Simulation Workshop.
4. Terhune, K.; Banerjee, A. ACGME Conference. ACGME; Nashville, Tennessee. 2010; 3; Using Intern Orientation for Effective Education: Multidisciplinary Clinical Orientation â€" Facilitated Workshop.
5. Banerjee, A., Easdown, J., Booker, R., Weinger, M. Educator Development Program Workshop. Office for Teaching and Learning in Medicine, Vanderbilt University Medical Center; Nashville, Tennessee. 2010; 4; Simulation as a teaching tool.
6. Vanderbilt Critical Skills Summit. Department of Anesthesiology, Vanderbilt University Medical Center; Nashville, Tennessee. 2010; 5; Airway Workshop â€" Simulator Session.
7. Nashville, Tennessee. 2010 Jan 16; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
8. Nashville, Tennessee. 2010 Jun 12; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
9. Nashville, Tennessee. 2010 Aug 30; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
10. Nashville, Tennessee. 2011 Jun 25; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
11. Nashville, Tennessee. 2011 Aug 27; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
12. Arna Banerjee, M.D. and Kyla Terhune, M.D. Educator Development Program Workshop. Office for Teaching and Learning in Medicine, VUMC; Nashville, Tennessee. 2011 Oct 11; Teaching Technical Skills â€" The Boot Camp Experience at Vanderbilt.
13. Arna Banerjee. American Society of Anestheiology. Society of Critical Care Anesthesiologists; Chicago, Illinois. 2011 Oct 15; Simulation-Based Training in Critical Incident Management and Teamwork.
14. Arna Banerjee. American Society of Anestheiology. Society of Education in Anesthesia; Chicago, Illinois. 2011 Oct 15; Simulation-Based Training in Critical Incident Management and Teamwork.
15. Simulation Design Workshop. Center for Experiential Learning and Assessment; Nashville, Tennessee. 2011 Dec 14; Simulation Design Workshop.
16. Nashville, Tennessee. 2012 Apr 21; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
17. Pioneer Program Collaborative Learning Session. VHVI, VUMC; Nashville, Tennessee. 2012 Jun 22; Pioneer Program Collaborative Learning Session.
18. Nashville, Tennessee. 2012 Jun 26; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
19. American Society of Anesthesiology Annual Meeting. Society of Critical Care Anesthesiologists; Washington DC, District of Columbia. 2012 Oct 14; ASA Sim Live! Society of Critical Care Anesthesiologists.
20. American Society of Anesthesiology Annual Meeting. Society of Education in Anesthesia; Washington DC, District of Columbia. 2012 Oct 14; ASA Sim Live! Society of Education in Anesthesia.
21. Nashville, Tennessee. 2012 Dec 8; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
22. Nashville Health Care Council and Vanderbilt Owen Graduate School of Management; Nashville, Tennessee. 2013 Mar 1; Nashville Health Care Council Fellows Simulation Session.
23. Nashville, Tennessee. 2013 Sep 14; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
24. American Society of Anesthesiology Annual Meeting. American Society of Anesthesiology; San Francisco, California. 2013 Oct 14; Peri Operative A-ACLS Workshop (Simulation).
25. American Society of Anesthesiologists Annual Meeting. American Society of Anesthesiology; San Francisco, California. 2013 Oct 15; Peri Operative A-ACLS Workshop (Simulation).

26. Nashville, Tennessee. 2013 Dec 7; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
27. American Society of Anesthesiology; Nashville, Tennessee. 2014 Jan 18; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
28. The International Meeting for Simulation in Healthcare. Society for Simulation in Healthcare; San Francisco, California. 2014 Jan 25; Conducting Business in an Educational Workplace: What are the Variables and Issues that Determine the Cost of Doing Simulation Business and How to Price It Right.
29. Nashville Health Care Council and Vanderbilt Owen Graduate School of Management; Nashville, Tennessee. 2014 Jan 31; Nashville Health Care Council Fellows Simulation Session.
30. Nashville, Tennessee. 2014 Feb 22; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
31. Nashville, Tennessee. 2014 Apr 12; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
32. Nashville, Tennessee. 2014 Aug 30; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
33. HOSA Fall Symposium. Tennessee Rural Health; Nashville, Tennessee. 2014 Nov 24; Day in the Life of a Physician.
34. The International Meeting for Simulation in Healthcare. Society for Simulation in Healthcare; New Orleans, Louisiana. 2015 Jan 25; Pricing the Cost of Doing Business in Your Simulation Center.
35. Nashville, Tennessee. 2015 Feb 8; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.
36. Nashville Health Care Council and Vanderbilt Owen Graduate School of Management; Nashville, Tennessee. 2015 Feb 13; Nashville Health Care Council Fellows Simulation.
37. Nashville, Tennessee. 2015 Feb 28; American Society of Anesthesiology: Maintenance of Certification in Anesthesia. Simulation Workshop.

Panel Presentation

1. Medical Education Research Day. OTLM, Vanderbilt University Medical Center; Nashville, Tennessee. 2009; 10; The Future of Medical Education Research at Vanderbilt.
2. New Faculty Orientation. Vanderbilt University School of Medicine; Nashville, Tennessee. 2013 Jul 12; Educators Panel.
3. The International Meeting for Simulation in Healthcare. Society for Simulation in Healthcare; San Francisco, California. 2014 Jan 29; "How To" of Multi-Institutional Simulation Research: The Details Matter!.
4. American Society of Anesthesiology Annual Meeting. American Society of Anesthesiology; New Orleans, Louisiana. 2014 Oct 12; Simulation Education in Competency Based Training and Assessment: Present and Future.

Invited Presentation - Local

1. Program Director's Meeting. Graduate Medical Education, Vanderbilt University Medical Center; Nashville, Tennessee. 2009; 8; Multidisciplinary Intern Orientation â€" Boot Camp.
2. Banerjee, A. MD, Terhune, K. M.D. MedED Research Day. Office for Teaching and Learning in Medicine, Vanderbilt University Medical Center; Nashville, Tennessee. 2009; 10; Multidisciplinary Intern Orientation â€" Boot Camp.

Invited Presentation - Regional

1. HOSA Fall Symposium. Tennessee Rural Health; Nashville, Tennessee. 2013 Nov 19; Day in the life of a Physician.

Presentations at Scientific Meetings

1. Banerjee, A. 26th Annual Gulf-Atlantic Anesthesiology Research Conference. Chapel Hill, North Carolina. 2000; Fire in the Operating Room.
2. Banerjee, A. 27th Annual Gulf-Atlantic Anesthesiology Research Conference. Galveston, Texas. 2001; Acute Hyperkalemia Following AMICAR therapy.
3. Banerjee, A. ASATT Regional conference. ASATT; Nashville, Tennessee. 2005; Point of care Testing.
4. Terhune, K., Banerjee, A. Society of Education in Anesthesia. Society of Education in Anesthesia; Seattle, Washington. 2009; 6; Initiation of A Structured Orientation Program For Anesthesia and Surgery Interns.
5. Society for Pelvic Surgeons Annual Meeting. Society for Pelvic Surgeons; Nashville, Tennessee. 2009; 10; Simulation Workshop on Teamwork and Communication.

6. Banerjee, A. American Society of Anesthesiology Annual Meeting. American Society of Anesthesiology; New Orleans, Louisiana. 2009; 10; A Handoff Training and Improvement Initiative â€" The Curriculum Design. FAER Session: Simulation in Education.

University Talk

1. Medical School Orientation. VUMC; NASHVILLE, Tennessee. 2013 Jul 18; Introduction to CELA.