Curriculum Vitae

Name:	Rajnish Kumar Gupta
Office Phone:	615-343-9419
Office Fax:	615-936-6493
Office Address:	1301 Medical Center Drive; 4648 TVC Nashville Tennessee, 37232-5614
Work Email:	raj.gupta@Vanderbilt.Edu

Education

08/1994 - 05/1998	B.A. in Anthropology from Vanderbilt University, Nashville, TN
08/1998 - 05/2002	M.D. in Medicine from Vanderbilt University, Nashville, TN

Training

06/2002 - 06/2003	Internship in Transitional from St. Joseph Mercy Hospotal, Ann Arbor, MI
07/2003 - 06/2006	Residency in Anesthsiology from University of Michigan

Licensure and Certification

12/2005 - 06/2014	Medical Doctor, State of Tennessee Board of Medical Examiners of Tennessee United States (MD0000040714)
04/2007 - 12/2017	Board Certification, American Board of Anesthesiology United States (40785)

Academic Appointments

08/2006 - 05/2008	Assistant Professor, Vanderbilt University (Nashville, Tennessee)
06/2008 - Present	Assistant Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)

Other Work Experience

01/2007 - 06/2008	Associate Director , Adult Acute Pain Service, Anesthesiology, Vanderbilt University School of Medicine (Nashville, Tennessee)
06/2008 - 07/2012	Director of Adult Acute Pain Service, Anesthesiology, Vanderbilt University School of Medicine (Nashville, Tennessee)
01/2009 - 07/2012	Associate Director Regional Anesthesia Fellowship, Anesthesiology, Vanderbilt University School of Medicine (Nashville, Tennessee)
07/2012 - 12/2014	Comprehensive Pain Service, Anesthesiology, Vanderbilt University School of Medicine (Nashvill, Tennessee)

Professional Organizations

2003	American Society of Anesthesiologists
2006	Tennessee Society of Anesthesiologists
2006	American Society of Regional Anesthesia
2011	International Anesthesia Research Society

Professional Activities

Intramural

2008 - 2010	Perioperative Quality Improvement Committee, Member
2009 - 2010	PACU Redesign Committee, Member
2009 - 2010	Root Cause Analysis Committee, Mamber
2009 - 08/2010	MUSIC subcommittee of QI Committee â€" IV PCA Management, Member

08/2010 - Present	Vanderbilt Pharmacy & Therapeutics Committee, Member
04/2011 - 06/2011	GasChart Rewrite Committee, Anesthesiology, Committee Member
12/2012 - 06/2015	One Medication List Steering Committee, Hospital Quality Informatics, Member
01/2013 - 06/2015	Naloxone Peer Review Workgroup, Pharmacology, Member
2014 - Present	Perioperative QMMI Committee, Anesthesiology, Member
07/2014 - 10/2014	Medical School Admissions Screeners Admission Committee, Vanderbilt University School of Medicine, I screened medical school applications for VUSM to determine which candidates should receive in person interviews. We screened approximately 20-40 applicants every two weeks for three months., Member/Screener

Extramural

01/2010 - Present	Ad-hoc Reviewer for American Institute of Biological Sciences
05/2010 - 04/2016	American Society of Regional Anesthesia Communications Committee, American Society of Regional Anesthesia
11/2011 - 04/2016	Chair of American Society of Regional Anesthesia Communications Committee, American Society of Regional Anesthesia, Associate Chair
11/2011 - 11/2012	Section Editor for OpenAnesthesia.org
02/2012 - 06/2104	Editor-in-Chief for American Society of Regional Anesthesia E-News
04/2012 - 06/2015	CMS Patient Controlled Analgesia Clinical Workgroup, CMS, Member
10/2012 - Present	Reviewer for Regional Anesthesia and Pain Medicine
04/2013 - 04/2016	Chair ASRA Website Committee, American Society of Regional Anesthesia and Pain Medicine, Chair of the group that did a complete rewrite and publication of the ASRA.com website which is now published., Chair
02/2015 - 10/2015	SHMâ€™s Reducing Adverse Drug Events from Opioids (RADEO) Initiative Expert Panel, Society of Hospital Medicine, The aim of this project is to develop a step by step implementation guide and online toolkit, outlining a systematic approach to improved opioid monitoring and training., Expert Panelist
06/2015 - 05/2017	Refresher Course Chair for ASRA Spring Meeting 2017, American Society of Regional Anesthesia and Pain Medicine, I will service as the Chair of the Refresher Courses for the ASRA International Spring Meeting 2017., Chair
06/2015 - 05/2016	Workshop Committee for ASRA Spring meeting 2016, American Society of Regional Anesthesia and Pain Medicine, I will function as the Associate Chair of the Workshop Committee for the ASRA International Spring meeting in 2016., Associate Chair
06/2016 - 06/2018	Workshop Committee Chair for ASRA Spring meeting 2018, American Society of Regional Anesthesia and Pain Medicine, I will function as the Chair of the Workshop Committee for the ASRA International Spring meeting in 2018., Chair

Teaching Activities

11/2006 - 11/2006	Cardiac Anatomy & Physiology, Lecturer, VUMC
01/2007 - 01/2007	Medical Student Small Group Discussion Session: Pain Management, Discussion Leader, VUMC
03/2007 - 03/2007	Minimally Invasive Anesthesia, Lecturer, VUMC
05/2007 - 05/2007	Regional Anesthesia Workshop & Conference, Workshop Instructor, VUMC
05/2007 - 05/2007	Critical Care Skills Workshop: Acute Pain Management, Lecturer, VUMC, Medical Student lecture and workshop
06/2007 - 06/2007	Resident Small Group Discussion Session: Pain Topic, Discussion Leader, VUMC
06/2007 - 06/2007	Acute Postoperative Pain Management, Lecturer, VUMC
08/2007 - 08/2007	Resident Small Group Discussion Session: Perioperative Visual Loss, Discussion Leader, VUMC
10/2007 - 10/2007	Cardiac Anatomy & Physiology, Lecturer, VUMC
11/2007 - 11/2007	Resident Small Group Discussion Session: Pressure volume loops, Discussion Leader, VUMC
11/2007 - 11/2007	Pain Management, Lecturer, VUMC
11/2007 - 11/2007	Critical Care Skills Workshop: Acute Pain Management, Lecturer, VUMC, Medical Student lecture and workshop
03/2008 - 03/2008	Resident Small Group Discussion Session, Discussion Leader, VUMC
03/2008 - 05/2008	Acute Postoperative Pain Management, Lecturer, VUMC

05/2008 - 05/2008	Resident Small Group Discussion Sessions: Written Board Question Review Session, Discussion Leader, VUMC
05/2008 - 07/2008	Critical Care Skills Workshop: Acute Pain Management, Lecturer, VUMC, Medical Student lecture and workshop
07/2008 - 07/2008	Resident Small Group Discussion Session, Discussion Leader, VUMC
07/2008 - 07/2008	Resident Small Group Discussion Session, Discussion Leader, VUMC
09/2008 - 09/2008	Combined Surgery/Anesthesia Morbidity & Mortality Conference: Paralysis following epidural hematoma, Lecturer, VUMC
11/2008 - 11/2008	Acute Pain Service/Regional Anesthesia Rotation Didactic Series, Lecturer, VUMC
11/2008 - 11/2008	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer, Medical Student lecture and workshop
01/2009 - 01/2009	Ultrasound and Chronic Pain, Lecturer, VUMC
02/2009 - 02/2009	Acute Pain Service/Regional Didactic Series, Lecturer
02/2009 - 02/2009	Critical Care Skills Workshop: Acute Perioperative Pain Management, Medical Student lecture and workshop
03/2009 - 03/2009	Acute Pain Service/Regional Didactic Series, Lecturer
04/2009 - 04/2009	Acute Pain Service/Regional Didactic Series, Lecturer
04/2009 - 04/2009	Resident Small Group Discussion Session, Discussion Leader
05/2009 - 05/2009	Acute Postoperative Pain Management, Lecturer
05/2009 - 05/2009	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer, Medical Student lecture and workshop
06/2009 - 06/2009	Acute Pain Service/Regional Didactic Series, Lecturer
07/2009 - 07/2009	Acute Pain Service/Regional Didactic Series, Lecturer
07/2009 - 07/2009	CA-1 â€œSummer Schoolâ€ Lecture Series: Local Anesthetic Toxicity, Lecturer
08/2009 - 08/2009	Acute Pain Service/Regional Didactic Series, Lecturer
08/2009 - 08/2009	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer, Medical Student lecture and workshop
09/2009 - 09/2009	Acute Pain Service/Regional Didactic Series, Lecturer
10/2009 - 10/2009	Acute Pain Service/Regional Anesthesia Journal Club
10/2009 - 10/2009	Chronic Pain Lecture Series: Ultrasound and Chronic Pain, Lecturer
10/2009 - 10/2009	Acute Pain Service/Regional Didactic Series, Lecturer
11/2009 - 11/2009	Intern Anesthesia Review Session
11/2009 - 11/2009	Acute Pain Service/Regional Didactic Series, Lecturer
11/2009 - 11/2009	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer, Medical Student lecture and workshop
12/2009 - 12/2009	Acute Pain Service/Regional Anesthesia Journal Club
12/2009 - 12/2009	Acute Pain Service/Regional Didactic Series, Lecturer
01/2010 - 01/2010	Acute Pain Service/Regional Didactic Series, Lecturer
02/2010 - 02/2010	Acute Pain Service/Regional Didactic Series, Lecturer
02/2010 - 02/2010	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer
02/2010 - 02/2010	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer, Medical Student lecture and workshop
03/2010 - 03/2010	Epidural Management for Floor Nurses, Lecturer
03/2010 - 03/2010	Acute Pain Service/Regional Didactic Series, Lecturer
04/2010 - 04/2010	Acute Pain Service/Regional Didactic Series, Lecturer
05/2010 - 05/2010	Acute Pain Service/Regional Didactic Series, Lecturer
05/2010 - 05/2010	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer
06/2010 - 06/2010	Acute Pain Service/Regional Didactic Series, Lecturer
07/2010 - 07/2010	Peripheral Nerve Catheter Management for Floor Nurses, Lecturer
07/2010 - 07/2010	Morbidity & Mortality Conference: Local Anesthetic Toxicity, Lecturer
07/2010 - 07/2010	Acute Pain Service/Regional Didactic Series, Lecturer
08/2010 - 08/2010	Epidural Management for Floor Nurses, Lecturer
08/2010 - 08/2010	Acute Pain Service/Regional Didactic Series, Lecturer
08/2010 - 08/2010	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer
09/2010 - 09/2010	Acute Pain Service/Regional Didactic Series, Lecturer
10/2010 - 10/2010	Peripheral Nerve Catheter Management for Floor Nurses, Lecturer
10/2010 - 10/2010	Peripheral Nerve Catheter Management for Floor Nurses, Lecturer

10/2010 - 10/2010	Acute Pain Service/Regional Didactic Series, Lecturer
11/2010 - 11/2010	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer
12/2010 - 12/2010	Acute Pain Service/Regional Didactic Series, Lecturer
01/2011 - 01/2011	Chronic Pain Lecture Series: Ultrasound and Chronic Pain, Lecturer
01/2011 - 01/2011	Acute Pain Service/Regional Didactic Series, Lecturer
02/2011 - 02/2011	Acute Pain Service/Regional Didactic Series, Lecturer
02/2011 - 02/2011	Critical Care Skills Workshop: Acute Perioperative Pain Management, Lecturer
05/2011 - 05/2011	Acute Pain Service/Regional Didactics Series, Lecturer
05/2011 - 05/2011	basic pain / analgesic concepts / considerations and intra-/post-op strategies, Lecturer
06/2011 - 06/2011	Preoperative Considerations for Regional Anesthesia, Instructor, TVC
06/2011 - 06/2011	Acute Pain Service/Regional Didactics Series, Lecturer
07/2011 - 07/2011	Acute Pain Service/Regional Didactics Series, Lecturer
08/2011 - 08/2011	Acute Pain Service/Regional Didactics Series, Lecturer
11/2011 - 11/2011	Acute Pain Service/Regional Didactic Series, Lecturer, Nashville, TN
11/2011 - 11/2011	Critical Care Skills Week: Acute Perioperative Pain Management, Lecturer
02/2012 - 02/2012	Acute Perioperative Pain Management, Lecturer
02/2012 - 02/2012	Neuroscience: Local Anesthetics, Lecturer, Nashville, TN
03/2012 - 03/2012	Acute Pain Service/Regional Didactics Series, Lecturer
05/2012 - 05/2012	Acute Pain Service/Regional Didactics Series, Lecturer
07/2012 - 07/2012	Acute Pain Service/Regional Didactics Series, Lecturer
08/2012 - 08/2012	Comprehensive Pain Service/Regional Didactic Series, Lecturer, 4 hours
09/2012 - 09/2012	Comprehensive Pain Service/Regional Didactic Series, Lecturer
11/2012 - 11/2012	Pain Management Team communication workshop for nurses, Panel Discussion
11/2012 - 11/2012	Comprehensive Pain Service/Regional Didactic Series, Lecturer
11/2012 - 11/2012	Acute Perioperative Pain Management, Lecturer
11/2012 - 11/2012	Perioperative Immersion Course: Basics of Ultrasonography, Lecturer
02/2013 - 02/2013	Perioperative Medicine Immersion Course: Ultrasound Use, Lecturer
02/2013 - 02/2013	Nurse Residency: Pain Management, Lecturer and Panelist
02/2013 - 02/2013	Comprehensive Pain Service/Regional Didactic Series, Lecturer
02/2013 - 02/2013	Acute Perioperative Pain Management, Lecturer
02/2013 - 02/2013	Brain and Behavior Module: Local Anesthetics, Lecturer
04/2013 - 04/2013	Comprehensive Pain Service/Regional Didactic Series, Lecturer
05/2013 - 05/2013	Critical Care Skills Week: Acute Perioperative Pain Management, Lecturer
06/2013 - 06/2013	Comprehensive Pain Service/Regional Didactic Series, Lecturer
07/2013 - 08/2013	Nurse Resident Course on Pain Management: Pain Management, Lecturer and Panelist, Vanderbilt, 4 hour course covering multimodal analgesia, regional anesthesia (epidurals, peripheral nerve blocks and catheters), pain medications, monitoring pain patients, sedation scales, communication techniques, and addiction/dependence.
08/2013 - 08/2013	CPS/Regional Didactics: CPS/Regional Rotation Orientation Lecture, Lecturer, Vanderbilt
08/2013 - 08/2013	CPS/Regional Didactics: Local anesthetics and adjuncts, Lecturer, Vanderbilt
08/2013 - 08/2013	CPS/Regional Didactics: Multimodal Analgesia, Lecturer, Vanderbilt
08/2013 - 08/2013	CPS/Regional Didactics: Block Room and Nerve Stimulation, Lecturer, Vanderbilt
10/2013 - 10/2013	CPS/Regional Didactics: Multimodal Analgesia, Lecturer, Vanderbilt
10/2013 - 10/2013	CPS/Regional Didactics: Local Anesthetics and Adjuncts, Lecturer, Vanderbilt
10/2013 - 10/2013	CPS/Regional Didactics: Peripheral Nerve Blocks Risks And Benefits, Lecturer, Vanderbilt
10/2013 - 10/2013	CPS/Regional Didactics: CPS/Regional Rotation Orientation Lecture, Lecturer, Vanderbilt
10/2013 - 10/2013	CPS/Regional Didactics: Block Room and Nerve Stimulation, Lecturer, Vanderbilt
02/2014 - 02/2014	CPS/Regional Didactics: Chest and Abdomen Regional Anatomy, Lecturer, Vanderbilt

03/2014 - 03/2014	Nurse Residency Course on Pain Management: Pain Management, Lecturer and Panelist, Vanderbilt, 4 hour course covering multimodal analgesia, regional anesthesia (epidurals, peripheral nerve blocks and catheters), pain medications, monitoring pain patients, sedation scales, communication techniques, and addiction/dependence.
03/2014 - 03/2014	CPS/Regional Didactics: Upper Extremity Regional Anatomy, Lecturer, Vanderbilt
03/2014 - 03/2014	CPS/Regional Didactics: Chest and Abdomen Regional Anatomy, Lecturer, Vanderbilt
03/2014 - 03/2014	CPS/Regional Didactics: Peripheral Nerve blocks Risks and Benefits, Lecturer, Vanderbilt
05/2014 - 03/2014	CPS/Regional Didactics: CPS/Regional Rotation Orientation Lecture, Lecturer, Vanderbilt
05/2014 - 05/2014	CPS/Regional Didactics: Block Room and Nerve Stimulation, Lecturer, Vanderbilt
06/2014 - 06/2014	CPS/Regional Didactics: CPS/Regional Rotation Orientation Lecture, Lecturer, Vanderbilt
06/2014 - 06/2014	CPS/Regional Didactics: Block Room and Nerve Stimulation, Lecturer
06/2014 - 06/2014	CPS/Regional Didactics: Multimodal Analgesia, Lecturer, Vanderbilt
08/2014 - 2014	Nurse Residency Course on Pain Management: Pain Management, Lecturer and Panelist, Vanderbilt, 4 hour course covering multimodal analgesia, regional anesthesia (epidurals, peripheral nerve blocks and catheters), pain medications, monitoring pain patients, sedation scales, communication techniques, and addiction/dependence.
12/2014 - 12/2014	CPS/Regional Didactics: CPS/Regional Orientation, Lecturer, Vanderbilt
12/2014 - 12/2014	CPS/Regional Didactics: Ultrasound mechanics, needle/probe movements, Lecturer, Vanderbilt
12/2014 - 12/2014	CPS/Regional Didactic Series: Regional Anesthesia - Risks and Benefits, Lecturer, Vanderbilt
12/2014 - 12/2014	CPS/Regional Didactics: Multimodal Analgesia, Lecturer, Vanderbilt
03/2015 - 2015	Nurse Residency Course on Pain Management: Pain Management, Lecturer and Panelist, Vanderbilt University, 4 hour course covering multimodal analgesia, lidocaine infusions, regional anesthesia (epidurals, peripheral nerve blocks and catheters), pain medications, monitoring pain patients, sedation scales, communication techniques, and addiction/dependence.
05/2015 - 05/2015	CPS/Regional Rotation Didactics Series: CPS/Regional Orientation Lecture, Lecturer, Nashville, TN
05/2015 - 05/2015	CPS/Regional Rotation Didactics Series: Ultrasound and Needle Movement, Lecturer, Nashville, TN
06/2015 - 06/2015	CPS/Regional Rotation Didactics Series: Local Anesthetics, Lecturer, Nashville, TN
06/2015 - 06/2015	CPS/Regional Rotation Didactics Series: Multimodal Analgesia, Lecturer, Nashville, TN
07/2015 - 2015	Nurse Residency Course on Pain Management: Pain Management, Lecturer and Panelist, Vanderbilt University, 4 hour course covering multimodal analgesia, lidocaine infusions, regional anesthesia (epidurals, peripheral nerve blocks and catheters), pain medications, monitoring pain patients, sedation scales, communication techniques, and addiction/dependence.
03/2016 - 03/2016	Nurse Acute Care Residency: Pain Management, Lecturer and Panelist, Vanderbilt

Research Supervision / Mentorship

06/2011 - 06/2013	Christopher Sobey, M.D. Vanderbilt University, Current Position: Faculty. (Resident, General Mentorship)
07/2011 - Present	Stephen Bruehl, Ph.D. Vanderbilt University. (Faculty, Research)
06/2013 - Present	Jeffery Clemmons, M.D. Vanderbilt University, Current Position: Resident. (Resident, General Mentorship)
11/2013 - Present	Lisa Jaeger, M.D. Vanderbilt University, Current Position: Assistant Professor. (Faculty, General Mentorship)
06/2014 - Present	Britany Raymond, M.D. Vanderbilt University, Current Position: Resident. (Resident, General Mentorship)
10/2014 - 11/2014	Kiyah Anderson Vanderbilt University, Current Position: Undergraduate Student. (Undergraduate, Clinical)

10/2015 - Present	Abhishek Jaddu Vanderbilt University, Current Position: Undergraduate Student. (Undergraduate, Clinical)

Other Significant Activities

2008	QI Project - Epidural Hematoma MRI protocol: Development of a rapid protocol for handling suspected epidural hematomas from epidural catheters. Collaboration with Radiology and neurosurgery to reduce diagnosis time to under 2 hours.
2011	QI Project - Development of a Tamperfree system for On-Q pumps: Collaboration with Pharmacy to develop a tamper-free system of handling On-Q pumps to avoid using contaminated pumps, connection to correct patient, and increase efficiency of pump delivery.
2011	Development and deployment of a standardized Epidural Wiz/HEO decision-support order set: The purpose was to reduce variability in medications ordered, speed up orders, simplify pharmacy processing, and provide real time alerts regarding anticoagulation use and epidurals.
2011	Revision of Hospital Epidural Management Policy: I worked with Nurse management to update and simplify the epidural management policy for the hospital.
2011	Revision of Hospital IV PCA policy: I worked with nurse management to update and simplify the IV PCA policy for the hospital.
2012	Development and deployment of a standardized Peripheral Nerve Catheter Infusion Wiz/HEO decision-support order set : The purpose of this decision-support based order set was to simplify and standardize the orders for peripheral nerve catheter infusions and to provide a consistent order for the pharmacy to implement.
2012	QI Project - Implementation of the use of On-Q pumps: I worked with the pharmacy department nursing education to streamline the use of On-Q pumps for inpatient peripheral nerve catheter infusions and develop comfort with the nurses in managing these new pumps.
02/2014	QI Project - Remifentanil Usage Reduction: We instituted a review of existing usage patterns and developed a strategy to be more efficient with remifentanil use. After implementation, the Pharmacy department an estimated $185,000 per year savings in remifentanil purchases.
02/2014	QI Project - Dexmedetomidine Usage Reduction: We instituted a review of existing usage patterns and developed a strategy to be more efficient with dexmedetomidine use. After implementation, the operating room use of this drug plummeted to near zero levels.
02/2014	QI Project - Albumin Usage Reduction: We instituted a review of existing usage patterns and developed a strategy to be more efficient with albumin use. After implementation, OR albumin usage dropped by 25%, approximately $7000/mo savings.
04/2015	Development and Implementation of a standardized Anesthesia Preop order set: I worked with perioperative nursing, CRNAs, residents, and faculty to develop a standardized approach to preop anesthesia orders.
09/2015	Assisted with the development of a Pediatric Preop Anesthesia Order Set: I worked with the Pediatric Anesthesia department to revise and adapt the Adult Preop Anesthesia order set for Pediatric patients. I assisted in getting the forms validated through the Forms Committee and become part of the medical chart.
10/2015	QI Project - Pre-filled syringe project: I worked with the Departmental QMMI committee and the Pharmacy to determine a deployment and implementation strategy for pre-filled syringes for the OR - including succinylcholine, neostigmine, phenylephrine, ephedrine, epinephrine, and others.
11/2015	Development and Implementation of a Standardized Preop Handoff Checklist: I worked with perioperative nursing, CRNAs, residents, and faculty to develop a standardized handoff checklist for transfer of care from the Holding Room nurse to the In-Room anesthesia provider.
01/2016	Assisted with the development of a Pediatric Preop Handoff Checklist: I worked with the Pediatric Anesthesia department to modify the Adult Preop Handoff Checklist for the pediatric department and their needs.
02/2016	QI Project - Syringe relabelling project: I worked with the Departmental QMMI committee and the Pharmacy to help design, edit, and deploy a new standardized syringe labelling system for all pre-filled syringes from the pharmacy.

Grants and Funding

1R01DA031726-01 Stephen Bruehl, PhD (PI) 09/2011 - 05/2016
NIH
Predictors of Opioid Analgesic Responses and Common Endogenous Opioid Mechanisms
Role: Co-Investigator
Total Cost: $589,469.00

VR6303 Rajnish Gupta (PI) 01/2013 - 09/2013
VICTR
Development of a Leg Holder for Popliteal Nerve Blocks
To develop and produce a prototype of a collapsible, light weight, medical grade leg holder for use during ultrasound guided lateral popliteal nerve blocks and catheter placement.
Role: Co-Principal Investigator
Total Cost: $500.00

1R01DA037891-01A1 Stephen Bruehl (PI) 04/2015 - 04/2019
NIH
Reduced Opioid Analgesic Requirements Via Improved Endogenous Opioid Function
Role: Co-Investigator
Total Cost: $668,348.00

Honors / Awards

1997	Graduate: Awarded early acceptance into Vanderbilt University School of Medicine, School of Medicine, Vanderbilt University
1998	Undergraduate: Honors in the College of Arts & Science, Highest Honors in the Department of Anthropology, Dean's Select Scholarship, Chancellor/Lanier Scholarship, College of Arts & Science, Vanderbilt University
2003	Postgraduate: Transitional Intern of the Year â€" Saint Joseph Mercy Hospital (2003), Saint Joseph Mercy Hospital
2006	Postgraduate: Invited to present Case Report at the Practical Updates in Anesthesiology 2006, Puerto Vallarta, Mexico, Department of Anesthesiology, University of Michigan Hospital
2007	Academic Merit Award, Department of Anesthesiology, Vanderbilt University
2007	Career Development Award, Department of Anesthesiology, Vanderbilt University
2008	Career Development Award, Department of Anesthesiology, Vanderbilt University
2008	Academic Merit Award, Department of Anesthesiology, Vanderbilt University
2009	Academic Merit Award, Department of Anesthesiology, Vanderbilt University
2009	Career Development Award, Department of Anesthesiology, Vanderbilt University
2010	Career Development Award, Department of Anesthesiology, Vanderbilt University
2010	Academic Merit Award, Department of Anesthesiology, Vanderbilt University
06/2010	Golden Apple Teaching Award -- Excellence in Teaching, Department of Anesthesiology Residency Class, Vanderbilt University
06/2011	Career Development Award, Department of Anesthesiology, Recognition of research, education, and administrative work that awards additional non-clinical time to pursue these goals in the following academic year 2011-2012.
06/2011	Golden Apple Teaching Award -- Excellence in Teaching, Department of Anesthesiology Residency Class, Vanderbilt University, Award for excellence in teaching among the Anesthesia Faculty as voted by the senior class of Anesthesia Residents.
06/2012	Career Development Award, Department of Anesthesiology
09/2012	Academic Achievement Award - Excellence, Department of Anesthesiology
04/2013	Career Development Award, Department of Anesthesiology
08/2013	Academic Achievement Award - Excellence, Department of Anesthesiology
04/2014	Career Development Award, Department of Anesthesiology
09/2014	Academic Achievement Award - Chair's Award, Department of Anesthesiology

Publications

Peer Reviewed Publications

Research Articles

1. Bowens C Jr, **Gupta RK**, O'Byrne WT, Schildcrout JS, Shi Y, Hawkins JJ, Michaels DR, Berry JM. Selective local anesthetic placement using ultrasound guidance and neurostimulation for infraclavicular brachial plexus block. Anesthesia and analgesia 2010 May;110(5):1480-1485. PMID: 20418309.
2. Lenart MJ, Wong K, **Gupta RK**, Mercaldo ND, Schildcrout JS, Michaels D, Malchow RJ. The impact of peripheral nerve techniques on hospital stay following major orthopedic surgery. Pain medicine 2012 Jun;13(6):828-834. PMID: 22494645.
3. Bruehl S, Burns JW, **Gupta R**, Buvanendran A, Chont M, Kinner E, Schuster E, Passik S, France CR. Endogenous opioid function mediates the association between laboratory-evoked pain sensitivity and morphine analgesic responses. Pain 2013 Sep;154(9):1856-1864. PMID: 23748117.
4. **Gupta RK**, Lane J, Allen B, Shi Y, Schildcrout JS. Improving Needle Visualization by Novice Residents During an In-Plane Ultrasound Nerve Block Simulation Using an In-Plane Multiangle Needle Guide. Pain medicine 2013 Oct;14(10):1600-1607. PMID: 23758955.
5. Bruehl S, Burns JW, **Gupta R**, Buvanendran A, Chont M, Schuster E, France CR. Endogenous Opioid Inhibition of Chronic Low-Back Pain Influences Degree of Back Pain Relief After Morphine Administration. Regional anesthesia and pain medicine 2014 Feb;39(2):120-125. PMID: 24553304.
6. **Gupta RK**, Bruehl S, Burns JW, Buvanendran A, Chont M, Schuster E, France CR. Relationship between endogenous opioid function and opioid analgesic adverse effects. Regional Anesthesia and Pain Medicine 2014 May;39(3):219-24. PMID: 24682081.
7. **Gupta RK**. Using an electronic clinical decision support system to reduce the risk of epidural hematoma. American Journal of Therapeutics 2014 Sep; PMID: 22878410.
8. Bulka CM, Shotwell MS, **Gupta RK**, Sandberg WS, Ehrenfeld JM. Regional anesthesia, time to hospital discharge, and in-hospital mortality: A propensity score matched analysis. Regional Anesthesia and Pain Medicine 2014 Sep;39(5) PMID: 25025697.
9. Bruehl S, Burns JW, Passik SD, **Gupta R**, Buvanendran A, Chont M, Schuster E, Orlowska D, France CR. The Contribution of Differential Opioid Responsiveness to Identification of Opioid Risk in Chronic Pain Patients. The journal of pain : official journal of the American Pain Society 2015 Jul;16(7):666-75. PMID: 25892658 PMCID: PMC4486517.
10. Myler CS, **Gupta RK**. Spinal Anesthesia in a Patient With a History of Systemic Capillary Leak Syndrome (Clarkson Disease). Regional anesthesia and pain medicine 2015 Nov;40(6):723-5. PMID: 26237002.
11. McEvoy MD, Hand WR, Stiegler MP, DiLorenzo AN, Ehrenfeld JM, Moran KR, Lekowski R, Nunnally ME, Manning EL, Shi Y, Shotwell MS, **Gupta RK**, Corey JM, Schell RM. A Smartphone-based Decision Support Tool Improves Test Performance Concerning Application of the Guidelines for Managing Regional Anesthesia in the Patient Receiving Antithrombotic or Thrombolytic Therapy. Anesthesiology 2016 Jan;124(1):186-98. PMID: 26513023.
12. France CR, Burns JW, **Gupta RK**, Buvanendran A, Chont M, Schuster E, Orlowska D, Bruehl S. Expectancy Effects on Conditioned Pain Modulation Are Not Influenced by Naloxone or Morphine. Annals of behavioral medicine : a publication of the Society of Behavioral Medicine 2016 Jan; PMID: 26809850.
13. Jungquist CR, Correll DJ, Fleisher LA, Gross J, **Gupta R**, Pasero C, Stoelting R, Polomano R. Avoiding Adverse Events Secondary to Opioid-Induced Respiratory Depression: Implications for Nurse Executives and Patient Safety. The Journal of nursing administration 2016 Feb;46(2):87-94. PMID: 26796821.
14. Townley KR, Lane J, Packer R, **Gupta RK**. Unintentional Infusion of Phenylephrine into the Epidural Space. A & A case reports 2016 Mar;6(5):124-6. PMID: 26513673.
15. Bruehl S, Burns JW, **Gupta R**, Buvanendran A, Chont M, Orlowska D, Schuster E, France CR. Do Resting Plasma Beta-Endorphin Levels Predict Responses to Opioid Analgesics?. The Clinical journal of pain 2016 May; PMID: 27183154.
16. **Gupta RK**, McEvoy MD. Initial Experience of the American Society of Regional Anesthesia and Pain Medicine Coags Regional Smartphone Application: A Novel Report of Global Distribution and Clinical Usage of an Electronic Decision Support Tool to Enhance Guideline Use. Regional anesthesia and pain medicine 2016 May;41(3):334-8. PMID: 27076369.

Non-Peer Reviewed Publications

Evidence-Based Guidelines

1. Rajnish Gupta. Perioperative Cisatracurium Use - CEBA Guideline. 2013 Oct.

Book Chapters

1. **Gupta, RK** and Bowens, C. Ultrasound. Monitoring Technologies in Acute Care Environments: . Editors: Ehrenfeld, Jesse; Cannesson, Maxime. New York, New York, United States: Springer; 2013 Dec;1 367-375. ISBN: 9781461485568.
2. Malchow R; **Gupta, RK**. Regional Anesthesia for Foot and Ankle Surgery Chapter. AAOS Comprehensive Orthopaedic Review 2. Editors: Martin I. Boyer, MD, MSc, FRCS. Rosemont, Illinois, United States: Amer Academy of Orthopaedic; 2014 Sep;2 1461-1466. ISBN: 978-0892038459.

Others

1. **Gupta, RK**; McEvoy, M; Corey, J. ASRA Coags REGIONAL iOS App. 2014 Apr.
2. **Gupta, RK**; McEvoy, M. ASRA Local Anesthetic Systemic Toxicity iOS App. 2014 Nov.
3. **Gupta RK**; McEvoy M. ASRA Timeout iOS App. 2014 Nov.
4. Rajnish Gupta, Matt McEvoy. ASRA Timeout Android App. 2015 May.
5. Rajnish Gupta, Matt McEvoy. ASRA Coags REGIONAL Android App. 2015 May.
6. **Gupta, R**ajnish K; McEvoy, Matthew D. ASRA Coags PAIN Android App. 2015 Sep.
7. **Gupta, R**ajnish K; McEvoy, Matthew D. ASRA Coags PAIN iOS App. 2015 Sep.

Research Articles

1. **Gupta, R**; Malchow, M; Lenart, M; Wong, K. Near-OR Perioperative Interventions to Decrease Hospital Length of Stay. 2011 May.

Books

1. Frederickson TW, Gordon DB, De Pinto M, Kral LA, Furnish T, **Gupta R** (editor and co-author of 8 sections), Austin PN, eds. Reducing Adverse Drug Events Related to Opioids Implementation Guide. Reducing Adverse Drug Events Related to Opioids Implementation Guide. Editors: Frederickson TW, Gordon DB, De Pinto M, Kral LA, Furnish T, Gupta R (editor and co-author of 8 sections), Austin PN, eds. Philadelphia, Pennsylvania, United States: Society of Hospital Medicine; 2015 Nov.

Presentations

Podcasts / Webinar

1. 2009 Oct; The Brain: 1st, Do No Harm.
2. 2009 Oct; ASA annual meeting Update.
3. 2009 Oct; The Registry Imperative.
4. 2009 Dec; Healthcare Reform and You.
5. 2009 Dec; Cricoid Pressure, may the Force be with you.
6. 2009 Dec; Regional Anesthesia Today.
7. 2010 Jan; See one, Do one, Teach one Anesthesia Education & Research.
8. 2010 Jan; Intraoperative Blood Pressure, What and Why.
9. 2010 Feb; One or two minutes, Does it really matter?.
10. 2010 Feb; Interactive Multimedia Regional Anesthesia Conference.
11. 2010 Mar; Gas Exchange, Meritocracy in the making.
12. 2010 Mar; Anesthesia, Medicine and Politics.
13. Toronto, Canada. 2010 Apr; ASRA 2010, Ontario, Canada â€" Faculty Interviews.
14. 2010 Apr; Intralipids to the rescue.
15. Toronto, Canada. 2010 May; ASRA 2010, Ontario, Canada â€" Vendor Interviews.
16. Nashville, Tennessee. 2010 May; Slow the Blower Down.
17. Gupta, Saied. Nashville, Tennessee. 2010 Jun; Keep it simple Dude, RSII & TEE.
18. Gupta, Saied. Nashville, Tennessee. 2010 Jul; Not Just Force, Its Relaxation Too.
19. Gupta, Saied. Nashville, Tennessee. 2010 Jul; Can a Poison Save Your Lungs?.
20. Gupta, Canlas, Saied. Nashville, Tennessee. 2010 Sep; Ketamine and Acute pain.
21. Gupta, Saied. Nashville, Tennessee. 2010 Oct; Drain the effusion and disconnect the blower.
22. Gupta, Canlas, Saied. Nashville, Tennessee. 2010 Oct; Not All Anesthetics are created Equal.
23. Gupta, Saied. Nashville, Tennessee. 2010 Nov; Non Invasive Cardiac output monitors - fact or fiction.
24. Gupta, Canlas. Nashville, Tennessee. 2010 Dec; Single Shot or Continuous Catheter & Where.

25. Gupta. Nashville, Tennessee. 2011 Feb 1; Novel ways of education in Anesthesia and Critical Care.
26. Rajnish Gupta, Nahel Saied. 2011 Feb 24; Thoracic Epidural and the Heart of It.
27. Rajnish Gupta. 2011 Mar 27; Statistics 101, Episode 1.
28. Rajnish Gupta, Nahel Saied. 2011 Apr 19; Magnesium, the 4th Ion.
29. Rajnish Gupta. 2011 Apr 26; Statistics 101, Episode 2.
30. Gupta, Saied. Nashville, Tennessee. 2011 May 13; Did I break your neck? Spinal Cord Injury and Anesthesia.
31. Gupta. Nashville, Tennessee. 2011 May 24; Statistics 101, Episode 3.
32. Gupta, Saied. Nashville, Tennessee. 2011 Aug 15; Statins for all and Succinylcholine too!.
33. Gupta, Saied. Nashville, Tennessee. 2011 Aug 29; Statins once more, is it for sepsis too?.
34. Gupta. Nashville, Tennessee. 2011 Oct 10; Statistics 101, episode 4.
35. Gupta, Saied. Nashville, Tennessee. 2011 Oct 30; Addiction, Not me!.
36. Rajnish Gupta, Nahel Saied. The World of Anesthesiology Podcast; Nashville, Tennessee. 2012 Sep 25; Can You Hear Me? - Awareness under Anesthesia.
37. Rajnish Gupta, Nahel Saied. The World of Anesthesiology Podcast; Nashville, Tennessee. 2012 Oct 8; ICU Sound, Loud and Clear.
38. Gupta, Rajnish; Schwenk, Eric. ASRA RAPP Podcast. American Society of Regional Anesthesia and Pain Medicine; Nashville, Tennessee. 2016 Apr 20; Episode 1: Recap of ASRA Spring Meeting 2016.
39. Gupta, Rajnish; Schwenk, Eric. ASRA RAPP Podcast. American Society of Regional Anesthesia and Pain Medicine; Nashville, Tennessee. 2016 May 13; Episode 2: Adductor Canal versus Femoral Blocks for Knee Surgery.

Presentations at Scientific Meetings

1. Stephen Bruehl, John Burns, Rajnish Gupta, Asokumar Buvanendran, Erik Schuster, Daria Orlowska, Melissa Chont, and Christopher France. American Pain Society Annual Scientific Meeting. American Pain Society; Palm Springs, California. 15 May 14; Negative Affect and Functional Status Predict Opioid Analgesic Effects on Chronic Pain: Evidence for Endogenous Opioid Mediation.
2. Case Report with Amy Kostrzewa, MD, Pediatric Anesthesiology. ASA Annual Meeting. American Society of Anethesiologist; 2005; Anesthetic Management of a Pediatric Patient Presenting for Permacath Placement Fourteen Days after Myocardial Infarction.
3. Research with Gaury Adhikary, MD, Cardiac Anesthesiology. MARC. MARC; 2006; Efficacy of instituting a continuous insulin infusion protocol for the perioperative glycemic control of cardiac surgery patients.
4. Bowens, C, Gupta, RK, Oâ€™Byrne, WT, Zhou, C, Michaels, DR. ASRA Meeting. American Society of Regional Anethesiologist; Cancun, Mexico. 2008 May 1; Selective local anesthetic placement using ultrasound-guidance and neurostimulation for the infraclavicularbrachial plexus block.
5. Gupta, RK, Strother, M, Kilkelly, S. ASRA Meeting. American Society of Anesthesiologist; Phoenix, Arizona. 2009 Apr; Expedited MRI Protocol for Quicker Detection of Epidural Hematoma.
6. Rajnish Gupta. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Toronto, Canada. 2010 Apr; Utilizing a Heads-Up Display (HUD) Unit Can Improve Hand-Eye Coordination When Performing Ultrasound-Guided Regional Anesthesia.
7. Reynolds, P; Gupta, R; Pilla, M. American Society of Anesthesiologists. ASA; San Diego, California. 2010 Oct; Delayed Local Anesthetic Systemic Toxicity Resulting from Bilateral Single Shot Lower Extremity Blocks: Rare Incident of L.A.S.T.
8. Sandall, J; Gupta, R; Lane, J. ASRA Spring Meeting. American Society of Regional Anesthesia; Las Vegas, Nevada. 2011 May 6; Lumbar Epidural Placement in an Anticoagulated Elderly Patient: The Need for Improved Systems Based Practice.
9. Gupta, R; Briggs, E. ASRA Spring Meeting. American Society of Regional Anesthesia; Las Vegas, Nevada. 2011 May 7; Rapid Release Flexible Stabilizing Arm for Ultrasound Probe.
10. Jonathon Pouliot. American College of Clinical Pharmacy Annual Meeting. American College of Clinical Pharmacy; Pittsburgh, Pennsylvania. 2011 Oct; The Role of Computerized Clinical Decision Support in Reducing Inappropriate Medication Administration During Epidural Therapy.
11. Rajnish Gupta. Association of University Anesthesiologists Meeting. Association of University; Miami, Florida. 2013 Apr 5; Relationship Between Endogenous Opioid Function and Opioid-Related Side Effects.

12. Bruehl S. American Pain Society Annual Meeting. American Pain Society; New Orleans, Louisiana. 2013 May; Individual Differences in Endogenous Opioid Function Predict Analgesic Responses to Morphine.
13. Rajnish Gupta, Jason Lane, Brian Allen, Jonathan Schildcrout, Yaping Shi. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Boston, Massachusetts. 2013 May 2; Improving Needle Visualization by Novice Residents during an In-Plane Ultrasound Nerve Block Simulation Using the CIVCO Infiniti Needle Guide.
14. Christopher Canlas, MD, Clifford Bowens, Jr., MD, Rajnish Gupta, MD, Brian Allen, MD, Lisa Jaeger, MD, Ignacio Badiola, MD, John Corey, MD, Stephanie Rasmussen, MD, Xue Han, MS, Randall Malchow, MD. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Chicago, Illinois. 2014 Apr 5; Is Color Flow Doppler and Agitated Local Anesthetic Useful to Verify Popliteal Sciatic Nerve Catheter Tip Placement?.
15. Ignacio Badiola, MD, Clifford Bowens, Jr., MD, Rajnish Gupta, MD, Christopher Canlas, MD, Brian Allen, MD, Lisa Jaeger, MD, Eric Briggs, MD, Stephen Harvey, MD, Xue Han, MS, Randall Malchow, MD. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Chicago, Illinois. 2014 Apr 5; Comparison of Peripheral Nerve Catheter Depth for a Popliteal Nerve Block using Ultrasound Guidance.
16. Kress R Townley, MD; Jason S. Lane, MD; Robyn Packer, NP; Rajnish Gupta, MD. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Chicago, Illinois. 2014 Apr 5; Inadvertent Infusion of Phenylephrine In the Epidural Space.
17. Stephen Bruehl, John Burns, Rajnish Gupta, Asokumar Buvanendran, Erik Schuster, Daria Orlowska, Melissa Chont, and Christopher France. American Pain Society Spring Meeting. American Pain Society; Palm Springs, California. 2014 May; Negative Affect and Functional Status Predict Opioid Analgesic Effects on Chronic Pain: Evidence for Endogenous Opioid Mediation.
18. Rajnish Gupta, Matthew McEvoy. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia and Pain Medicine; Las Vegas, Nevada. 2015 May; Initial clinical utilization experience of the ASRA Coags app.
19. Rajnish Gupta, Matthew McEvoy. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia and Pain Medicine; Las Vegas, Nevada. 2015 May; The development of smartphone-based electronic apps to implement national guidelines and checklists for greater clinical usability.
20. Rajnish Gupta. 11TH ANNUAL RESEARCH SYMPOSIUM. Vanderbilt University; Nashville, Tennessee. 2015 May 1; Initial clinical utilization experience of the ASRA Coags App.
21. Rajnish Gupta. INFORMS Healthcare Conference. Institute for Operations Research and the Management Sciences (INFORMS); Nashville, Tennessee. 2015 Jul; Optimizing Preoperative Handoffs.
22. Jamie Elchenko and Rajnish Gupta. American Society of Regional Anesthesia and Pain Medicine Spring Meeting. American Society of Regional Anesthesia and Pain Medicine; New Orleans, Louisiana. 2016 Mar 31; Thoracic Epidural Options in a Patient with Scoliosis.
23. Bruehl, S; France, C; Burns, J; Gupta, R; Buvanendran, A; Chont, M; Orlowska, D; Koltyn, K. 35th Annual Scientific Meeting of the American Pain Society. American Pain Society; Austin, Texas. 2016 May; Gender differences in associations between fitness and endogenous opioid analgesic function.
24. Rajnish K Gupta, MD; Patrick Henson, MD; Michael Leersnyder, CRNA, MHSc; Kelly Kohorst, MD; John Meyer, MD; Britany Raymond, MD; Cole Lasater, RN. Research Nurses Poster Session. Vanderbilt Nursing; Nashville, Tennessee. 2016 May 6; Preop to OR Handoff Project.
25. Meyer JW, Henson CP, Kohorst KL, Raymond BL, Lasater WC, Leersnyder M, Gupta RK. Anesthesia Research Symposium. Vanderbilt Department of Anesthesiology; Nashville, Tennessee. 2016 May 6; Evaluation of the Quality of Preoperative Handoffs.

Medically Challenging Cases

1. William Cross Dudney. American Society of Anesthesiologists Annual Meeting. ASA; San Francisco, California. 2013 Oct; An Impossible Airway in the Emergency Department.

Visiting Professor

1. 8th Biannual Hands-On Ultrasound Guided Regional Anesthesia Workshop. University of Texas; Houston, Texas. 2010 Jan; Ultrasound Guided Regional Anesthesia for Upper Extremity.
2. Gupta. 9th Biannual Hands-On Ultrasound Guided Regional Anesthesia Workshop. University of Texas; Houston, Texas. 2010 Jul; Ultrasound Guided Regional Anesthesia for Upper Extremity.
3. Gupta. 10th Biannual Hands-On Ultrasound Guided Regional Anestesia Workshop. University of Texas; Houston, Texas. 2011 Jan; Ultrasound Guided Regional Anesthesia for Upper Extremity.

4. Gupta. Baylor University - Ultrasound Guided Regional Anesthesia Workshop. Baylor University; Dallas, Texas. 2011 Oct; Ultrasound Guided Regional Anesthesia - Upper Extremity.
5. Gupta. Baylor University - Ultrasound Guided Regional Anesthesia Workshop. Baylor University; Dallas, Texas. 2011 Oct; Peripheral Nerve Catheter Placement.
6. Gupta. 12th Biannual Hands-On Ultrasound Guided Regional Anesthesia Workshop. University of Texas; Houston, Texas. 2012 Jan; Ultrasound Guided Regional Anesthesia for Upper Extremity.
7. Gupta. Tennessee Society of Anesthesiologists Annual Meeting. Tennessee Society of Anesthesiologists; Nashville, Tennessee. 2012 Feb; Ultrasound Guided Regional Anesthesia.

Workshop

1. Gupta. 8th Biannual Hands-On Ultrasound Guided Regional Anesthesia Workshop. University of Texas; Houston, Texas. 2010 Jan; Workshop on Ultrasound Guided Lower Extremity.
2. Gupta. Pain Management and Ultrasound Regional Anesthesia. University of the West Indies; New Kingston, Jamaica. 2010 Mar; Workshop Instructor - Ultrasound Guided Regional Anesthesia - Lower Extremity.
3. Gupta. 9th Biannual Hands-On Ultrasound Guided Regional Anesthesia Workshop. University of Texas; Houston, Texas. 2010 Jul; Workshop on Ultrasound Guided Lower Extremity.
4. Gupta. 10th Biannual Hands-On Ultrasound Guided Regional Anestesia Workshop. University of Texas; Houston, Texas. 2011 Jan; Workshop on Ultrasound Guided Lower Extremity.
5. Gupta. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Las Vegas, Nevada. 2011 May; Workshop on Ultrasound Guided Lower Extremity Regional Anesthesia.
6. Gupta. Baylor University - Ultrasound Guided Regional Anesthesia Workshop. Baylor University; Dallas, Texas. 2011 Oct; Ultrasound Guided Regional Anesthesia Workshop.
7. Gupta. 12th Biannual Hands-On Ultrasound Guided Regional Anesthesia Workshop. University of Texas; Houston, Texas. 2012 Jan; Workshop on Ultrasound Guided Lower Extremity.
8. Rajnish Gupta. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Boston, Massachusetts. 2013 May 3; Ask the Experts: Thoracic Epidural.
9. Rajnish Gupta. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia; Boston, Massachusetts. 2013 May 4; Resident Workshop: Lumbar Plexus Based Blocks.
10. Rajnish Gupta. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia and Pain Medicine; Chicago, Illinois. 2014 Apr; Workshop: Challenging Anatomy 3.
11. Rajnish Gupta. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia and Pain Medicine; Chicago, Illinois. 2014 Apr; Simulation Cases in Regional Anesthesia.
12. Gupta, Rajnish. ASRA Spring Meeting 2016. American Society of Regional Anesthesia and Pain Medicine; New Orleans, Louisiana. 2016 Mar 31; Hands on Workshop High Fidelity Simulator for Thoracic Blocks.
13. Gupta, Rajnish. ASRA Spring Meeting 2016. American Society of Regional Anesthesia and Pain Medicine; New Orleans, Louisiana. 2016 Apr 2; Ask the Experts Foot And Ankle.

University Talk

1. Combined Morbidity, Mortality, and Improvement Conference. Vanderbilt University; Nashville, Tennessee. 2008 Sep 19; Denial...it ain't just a river in Egypt: Epidural Hematoma.

Internal Grand Rounds

1. Rajnish Gupta. Morbidity, Mortality & Improvement Conference. Vanderbilt Department of Anesthesiology; Nashville, Tennessee. 2015 Feb; Do We Need a Time-Out? Wrong Site Blocks in Regional Anesthesia.
2. Rajnish Gupta. Vanderbilt University Department of Anesthesiology; Nashville, Tennessee. 2015 Jun 12; Anticoagulation and Regional Anesthesia - An Update.

Invited Presentation - Local

1. Gupta. Nursing MTSPAN Seminar. MTSPAN; Nashville, Tennessee. 2010 May; Regional Anesthesia.

Invited Presentation - Regional

1. Region III Annual Anesthesia Conference. American Society of Anesthesia Technologists and Technicians; Nashville, Tennessee. 2012 Jul 14; Perioperative Uses of Regional Anesthesia.

2. Rajnish Gupta. Region III Annual Anesthesia Conference. American Society of Anesthesia Technologists and Technicians; Nashville, Tennessee. 2014 Jun 28; New Technologies in Regional Anesthesia.

Invited Presentation - National

1. Rajnish Gupta. Production and Operations Management Society. Reno, Nevada. 2011 Apr 30; Reductions in Hospital Stay Using Single Shot and Continuous Peripheral Nerve Blocks for Orthopedic Surgery.
2. Johns Hopkins University; Baltimore, Maryland. 2012 Apr 4; Enhancing communication in ASRA.
3. Rajnish Gupta. STA 2016 Annual Meeting. Society for Technology in Anesthesia; Palm Beach, Florida. 2016 Jan 8; Mobile App Development for the Medical Professional.
4. Rajnish Gupta. New Horizons in Anesthesiology. Emory University; Vail, Colorado. 2016 Feb 14; Basics of Ultrasound Guided Regional Anesthesia.
5. Rajnish Gupta. New Horizons in Anesthesiology. Emory University; Vail, Colorado. 2016 Feb 15; Tips and Tricks for Peripheral Nerve Catheters.
6. Rajnish Gupta. New Horizons in Anesthesiology. Emory University; Vail, Colorado. 2016 Feb 15; Epidural Hematoma: Risks and Management Strategies.
7. Rajnish Gupta. New Horizons in Anesthesiology. Emory University; Vail, Colorado. 2016 Feb 16; Update on Anticoagulation and Regional Anesthesia.

Invited Presentation - International

1. Rajnish Gupta. American Society of Regional Anesthesia Spring Meeting. American Society of Regional Anesthesia and Pain Medicine; Chicago, Illinois. 2014 Apr; Ask The Experts Interactive Demonstration: Thoracic Epidural.
2. Rajnish Gupta, Alparslan Turan. American Society of Regional Anesthesia and Pain Medicine Spring Meeting. CIVCO; Las Vegas, Nevada. 2015 May 15; CIVCO Needle Guide Lunch Symposium.
3. Rajnish Gupta. Perioperative Leadership Summit: Focus on Quality and Safety. American Society of Anesthesiology & Association of Anesthesia Clinical Directors; Miami, Florida. 2016 Mar 5; Holding Room to OR Handoffs.

Other

1. CMS; Baltimore, Maryland. 2012 Apr 4; CMS Workgroup on PCA Monitoring eMeasure Development.
2. Rajnish Gupta. BlockJocks.ORG; Boston, Massachusetts. 2013 May 3; Ultrasound in Chronic Pain - Video presentation.

Panel Presentation

1. Rajnish Gupta. College of Healthcare Operations Management Mini-Conference. Production & Operations Management Society (POMS); Washington, District of Columbia. 2015 May; Optimizing Preoperative Handoffs.