

Curriculum Vitae and Bibliography

Steven R Clendenen, MD

Personal Information

Place of Birth: Fort Wayne, IN
Citizenship: United States of America
Work Address: Mayo Clinic Jacksonville
4500 San Pablo Rd S
Jacksonville, FL 32224-1865
904-956-3327
Email Address: Clendenen.Steven@mayo.edu

Present Academic Rank and Position

Chair - Division of Regional Anesthesia, Department of Anesthesiology, Mayo Clinic, Jacksonville, Florida 2006 - Present
Consultant - Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Jacksonville, Florida 07/2008 - Present
Associate Professor of Anesthesiology - Mayo Clinic College of Medicine and Science 10/2014 - Present

Education

Parkview School of Nursing, Ft. Wayne, Indiana - RN 1978 - 1980
Mayo Clinic School of Health-Related Sciences, Mayo Clinic College of Medicine, CRNA 1981 - 1983
Sangamon State University, Springfield, Illinois - BS 1984 - 1986
Wright State University School of Medicine, Dayton, Ohio - MD 1990 - 1994
Kettering Medical Center, Wright State University School of Medicine - Internship 1994 - 1995
Mayo Graduate School of Medicine, Mayo Clinic College of Medicine - Resident 1995 - 1997
Mayo Graduate School of Medicine, Mayo Clinic College of Medicine - Chief Resident, Department of Anesthesiology 1997 - 1998

Certification

Board Certifications

American Board of Anesthesiology

Anesthesiology 1999 - Present

American Board of Pain Medicine

Pain Medicine 1999 - Present

American Heart Association (AHA)

Advanced Cardiovascular Life Support (ACLS) 1999 - Present

Basic Life Support (BLS) 1999 - Present

Licensure

| | | |
|----------|--------------------|--------|
| Florida | ME70586 (Medical) | - 2013 |
| Ohio | Inactive (Medical) | |
| Colorado | Inactive (Medical) | |

Honors and Awards

| | |
|--|-------------------|
| Marie Colter Award, Outstanding Student Nurse - Parkview School of Nursing, Fort Wayne, IN | 01/1980 |
| Dean's Award - Sangamon State University, Springfield, IL | 01/1986 |
| Howard Magner Award, Academic Achievement - Medical School, Wright State University | 01/1992 |
| Janet Thompson Award, Outstanding Student in Obstetrics - Medical School, Wright State University | 01/1993 |
| Alpha Omega Alpha Honor Society - Medical School, Wright State University | 01/1994 |
| Richard A. Theye Award, Outstanding Achievement in Medical Literature - Department of Anesthesiology, Mayo Graduate School of Medicine, Mayo Clinic College of Medicine | 01/1997 |
| Teacher of the Year - Anesthesiology Residency Program, Department of Anesthesiology, Mayo Clinic, Jacksonville, Florida | 01/2007 - 01/2008 |
| Teacher of the Year - Anesthesiology Residency Program, Department of Anesthesiology, Mayo Clinic, Jacksonville, Florida | 07/2009 - 06/2010 |

Military Service

| | |
|--|-------------------|
| Captain - United States Air Force Reserve | 01/1990 - 01/1992 |
|--|-------------------|

Previous Professional Positions and Major Appointments

| | |
|--|-------------------|
| Registered Nurse - ICU, Parkview Memorial Hospital, Fort Wayne, Indiana | 1980 - 1981 |
| Staff Anesthetist - Wright Anesthesia Services, Miami Valley Hospital, Dayton, Ohio | 1983 - 1985 |
| Staff Anesthetist - Pediatric Anesthesia Associates, Children's Medical Center, Dayton, Ohio | 1985 - 1990 |
| Staff Anesthetist - Anesthesia Associates of Dayton, Miami Valley Hospital, Dayton, Ohio | 1990 - 1995 |
| Anesthesiologist - Anesthesia Associates of Colorado Springs, Colorado Memorial Hospital, Colorado Springs, Colorado | 07/1998 - 10/2001 |
| Anesthesiologist - Southern Colorado Anesthesia Associates, Inc., Colorado Springs, Colorado | 10/2001 - 06/2005 |
| Director of Anesthesia Research - Medical Research Center of Colorado, Colorado Springs, Colorado | 2003 - 2005 |
| Senior Associate Consultant - Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Jacksonville, Florida | 07/2005 - 07/2008 |
| Vice-Chair Practice - Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Jacksonville, Florida | 01/2007 - 2011 |
| Instructor in Anesthesiology - Mayo Clinic College of Medicine and Science | 02/2007 - 07/2008 |
| Assistant Professor in Anesthesiology - Mayo Clinic College of Medicine and Science | 08/2008 - 09/2014 |

Professional and Community Memberships, Societies, and Services

Professional Memberships and Services

| | |
|--|-------------------|
| American Society of Anesthesiologists Member | 10/1995 - Present |
| Educational Track Subcommittee on Regional Anesthesia and Acute Pain Member | 10/2010 |
| American Society of Pain Medicine Member | 01/2004 - Present |
| American Society of Regional Anesthesia Member | 01/2004 - Present |
| Communications Committee Member | 01/2010 - Present |
| Colorado Society of Anesthesiologists Member | 01/1998 - 12/2005 |
| Florida Society of Anesthesiologists Member | 01/2005 - Present |
| International Anesthesia Research Society Member | 01/2004 - Present |
| Society for Ambulatory Anesthesia Member | 01/1998 - Present |
| Society of Cardiovascular Anesthesiologists Member | 01/1997 - Present |

Journal Responsibilities

Journal Editorial Responsibilities

| | |
|--|----------------|
| Anesthesia & Analgesia Reviewing Editor | 2013 - 2017 |
| Minerva Anesthesiologica Reviewing Editor | 2014 - 10/2017 |

Journal Other Responsibilities

| | |
|--|-------------------|
| Ad Hoc Reviewer Journal Peer Reviewer | 01/2008 - Present |
|--|-------------------|

Educational Activities

Curriculum and Course Development

| | |
|--|-------------------|
| Business Administration Program American Society of Anesthesiologists The Woodlands, Texas | 03/2005 - 01/2006 |
| Guidelines for the Management of Severe Local Anesthetic Toxicity Developed and implemented guidelines for Quality Assurance Department of Anesthesiology, Mayo Clinic | 01/2008 |
| Physicians Communication Course - Module II Mayo Clinic Jacksonville, Florida | 09/2010 |

Teaching Intramural

| | |
|---|------------|
| Regional Catheter Service Anesthesia Resident Core Curriculum Conference | 07/25/2005 |
| Obstructive Sleep Apnea Anesthesia Resident Subspecialty Conference | 08/03/2005 |
| Regional Anesthesia & Outpatient Surgery Anesthesia Resident Core Curriculum Conference | 10/17/2005 |
| Practice Management Anesthesia Resident Core Curriculum Conference | 10/17/2005 |
| Regional Anesthesia for Orthopedics Nurses/Faculty St. Luke's Hospital United States of America | 11/19/2005 |
| Regional Anesthesia for Orthopedics Nurses/Faculty St. Luke's Hospital United States of America | 12/05/2005 |
| Neurovascular Surgery: Cerebral Aneurysm Wednesday Morning Subspecialty Anesthesia Resident Core Curriculum Series | 12/12/2005 |
| Regional Anesthesia Anesthesia Resident Subspecialty Conference | 01/18/2006 |

| | |
|---|------------|
| Perioperative Medicine Nurse Education United States of America | 02/2006 |
| Ultrasound and Regional Anesthesia MCJ Anesthesiology Grand Rounds United States of America | 07/24/2006 |
| Regional Catheter Service Anesthesia Resident Core Curriculum Conference United States of America | 07/26/2006 |
| Regional Anesthesia Anesthesia Resident Subspecialty Conference United States of America | 08/02/2006 |
| Local Anesthetics Anesthesia Resident Core Curriculum Conference United States of America | 10/09/2006 |
| Lower Extremity Blocks Anesthesia Resident Core Curriculum Conference United States of America | 10/30/2006 |
| Perioperative Medicine Nurse Education United States of America | 02/2007 |
| Regional Anesthesia Anesthesia Resident Subspecialty Conference United States of America | 03/21/2007 |
| Mock Oral Exam Presentation Anesthesia Resident Curriculum United States of America | 06/18/2007 |
| Mock Oral Exam Gutierrez, Mario - Mayo Clinic Anesthesia Resident United States of America | 06/18/2007 |
| Mock Oral Exam Hogan, William - Mayo Clinic Anesthesia Resident United States of America | 06/18/2007 |
| Mock Oral Exam Emerson, Brian - Mayo Clinic Anesthesia Resident United States of America | 06/20/2007 |
| Mock Oral Exam Presentation Anesthesia Resident Curriculum United States of America | 06/20/2007 |
| Mock Oral Exam Presentation Anesthesia Resident Curriculum United States of America | 12/03/2007 |
| Regional Anesthesia Anesthesia Resident Subspecialty Conference United States of America | 12/12/2007 |
| Ultrasound-Guided Peripheral Nerve Blocks Anesthesia Resident Core Curriculum Conference United States of America | 01/14/2008 |

| | |
|---|-------------|
| Ultrasound-Guided Peripheral Nerve Catheters Anesthesia Journal Club (Host) United States of America | 02/18/2008 |
| Regional Computerized Procedures Anesthesiology Grand Rounds Jacksonville, Florida | 02/25/2008 |
| Regional Computerized Procedures Anesthesia Resident Core Curriculum Conference United States of America | 02/25/2008 |
| Lipid Treatment for Local Anesthetic Toxicity Inservice Outpatient Service Center (OSC) staff United States of America | 03/24/2008 |
| Lower Extremity Nerve Blocks Anesthesia Resident Core Curriculum Conference United States of America | 03/31/2008 |
| Mock Oral Exam Presentation Anesthesia Resident Curriculum United States of America | 06/16/2008 |
| Mock oral board examination with feedback and evaluation on 6/16/2008. Stollendorf, Sarah - Mayo Clinic Anesthesia Resident United States of America | 06/28/2008 |
| Regional Anesthesia I Anesthesia Resident Subspecialty Conference United States of America | 09/24/2008 |
| Regional Anesthesia Anesthesia Resident Core Curriculum Conference Jacksonville, Florida | 09/24/2008 |
| Regional Anesthesia Regional Anesthesia Journal Club (Host) United States of America | 09/24/2008 |
| Faculty advisor 6/2009 - 7/2010. Advised on poster and lecture presentation at ASRA national meeting in San Antonio, November 2009. Bacani, Christopher - Senior Resident, Mayo Clinic, Department of Anesthesiology United States of America | 2009 - 2010 |
| Regional Anesthesia II Anesthesia Resident Subspecialty Conference United States of America | 02/25/2009 |
| Update on Regional Anesthesia Department/Division Chair Monthly Conference United States of America | 07/21/2009 |
| Use of Ultrasound for Regional Blocks Anesthesia Resident Core Curriculum Conference United States of America | 08/17/2009 |
| Lower Extremity Nerve Blocks Anesthesia Resident Core Curriculum Conference United States of America | 08/17/2009 |
| 4-D Ultrasound in Regional Anesthesia Anesthesiology Grand Rounds United States of America | 08/24/2009 |

| | |
|--|------------|
| Regional Anesthesia Anesthesia Resident Subspecialty Conference United States of America | 09/02/2009 |
| Regional Anesthesia Coding Update Patient Financial Services United States of America | 12/15/2009 |
| One-on-one instructions on Regional Anesthesia. Observership from May 24 - June 4, 2010. Practicing Regional Anesthesiologist in Brazil Farath-Gonzalez, Rodrigo - Visiting Physician United States of America | 2010 |
| Subdural Catheter Placement during Regional Anesthesia Anesthesia Resident Subspecialty Conference United States of America | 01/13/2010 |
| Propofol Shortage and Anesthetic Alternatives Anesthesiology Grand Rounds United States of America | 02/08/2010 |
| Anatomy of an Ultrasound Machine CA1 Anesthesia Resident Orientation - Introductory Course to Anesthesia Conference United States of America | 07/21/2010 |
| Regional Anesthesia III Anesthesia Resident Subspecialty Conference United States of America | 10/22/2010 |
| Update on Ultrasound-Guided Regional Anesthesia Regional Anesthesia Fellow Core Conference United States of America | 10/28/2010 |
| Spinal Imaging Regional Anesthesia Fellow Core Conference United States of America | 01/11/2011 |
| Mock oral board examination with feedback and evaluation Vickers, Jessica - Mayo Clinic Anesthesia Resident United States of America | 01/24/2011 |
| Ultrasound Mayo Clinic Anesthesiology Grand Rounds United States of America | 08/08/2011 |
| Ultrasound vs. Traditional Techniques for Acute Pain Mgmt - A Review of Outcomes Regional Anesthesia Clinical Conference(Host) United States of America | 09/21/2011 |
| Value of Single Injection or Continuous Sciatic Nerve Block in Addition to a Continuous Femoral Nerve Block in Patients Undergoing Total Knee Arthroplasty Regional Anesthesia Clinical Conference(Host) United States of America | 10/19/2011 |
| Anterior Approach to the Lumbar Plexus for Hip Surgery Regional Anesthesia Clinical Conference(Host) United States of America | 04/18/2012 |
| Ultrasound Imaging of the Spine Regional Anesthesia Fellow Conference United States of America | 08/21/2012 |

| | |
|---|------------|
| Lipid Rescue - Management of Intravascular Injection of Local Anesthesia Regional Anesthesia Fellow Conference United States of America | 08/21/2012 |
| Local Anesthetics Anesthesia Resident Core Curriculum Conference United States of America | 10/29/2012 |
| Lower Extremity Blocks Anesthesia Resident Core Curriculum Conference United States of America | 11/12/2012 |
| Pharmacology - Methemoglobinemia Anesthesia CA1 Core Curriculum Lecture United States of America | 10/28/2013 |
| Anesthesia billing and job evaluation Anesthesia CA2-3 Core Curriculum Lecture United States of America | 12/04/2013 |
| Lipid Rescue: Are you Prepared? Perianesthesia Core Day Jacksonville, Florida | 03/08/2014 |
| Pharmacology - Side Effects and Toxicity Anesthesia CA1 Core Curriculum Lecture Florida | 03/24/2014 |
| AKT missed topics: • Symptoms of spinal stenosis • Adjuvant treatment in bone metastases pain • Allodynia • Anesthesia dolorosa • Hypesthesia • Parasthesia Anesthesia CA2-3 Core Curriculum Lecture United States of America | 05/07/2014 |
| Intro to Private Practice and Job Evaluation Anesthesia CA2-3 Core Curriculum Lecture Jacksonville, Florida | 10/07/2014 |
| US Guided Lower Extremity Regional Anesthesia Workshop My Must-do Anesthesiology Workshops Jacksonville, Florida | 10/24/2014 |
| US Guided Upper Extremity Regional Anesthesia Workshop My Must-do Anesthesiology Workshops Jacksonville, Florida | 10/24/2014 |
| b. Pharmacology i. Anticoagulants, anti-thrombotic, and anti-platelet drugs 1. Mechanism of Action 2. Comparison of Drugs 3. Drug Interaction 4. Monitoring of Effects 5. Side Effects and Toxicity Anesthesia CA1 Core Curriculum Lecture Jacksonville, Florida | 01/12/2015 |
| 18. Pharmacology a. General Concepts i. Pharmacokinetics and Pharmacodynamics, Protein Binding; Partition Coefficients; PKA; Ionization, Tissue Uptake: Compartmentalization and Exponential Models 1. Pharmacokinetics of Neuraxial Drug Administration: Epidural and Subarachnoid b. Anesthetics - Local i. Uptake, Mechanism of Action ii. Biotransformation and Excretion iii. Comparison of Drugs and Chemical Groups iv. Prolongation of Action v. Side Effects and Toxicity 1. CNS: Seizures, Cauda Equ Anesthesia CA1 Core Curriculum Lecture Jacksonville, Florida | 05/11/2015 |
| Anesthesia jobs and billing - Intro into private practice Anesthesia CA2-3 Core Curriculum Lecture Jacksonville, Florida | 09/08/2015 |

| | |
|--|------------|
| Regional Lecture 7* Anesthesia CA2-3 Core Curriculum Lecture Jacksonville, Florida | 10/19/2016 |
| Acute Pain Management: The Narcotic Crisis in America Mayo Clinic Department of Anesthesiology and Perioperative Medicine Grand Rounds United States of America | 11/14/2016 |
| Local Anesthetics Anesthesia CA1 Core Curriculum Lecture Jacksonville, Florida | 12/05/2016 |
| PONV Anesthesia CA1 Core Curriculum Lecture Jacksonville, Florida | 02/20/2017 |
| Update Regional Anesthesia for Orthopedic Surgery Mayo Clinic Department of Orthopedics, Grand Rounds United States of America | 10/09/2017 |

Mentorship

| | |
|---|-------------------|
| Emerson, Brian (Anesthesia Resident) Description: Mentored in abstracts and presentations. Collaborated on an abstracts for Reg Anesth Pain Med (2007) and Anesthesiology (2008). Current Status: Anesthesiologist Outcome: | 06/2004 - 06/2007 |
| York, Jason (Anesthesia Resident) Description: Mentored in abstract, publication of original research and presentations. Wrote a peer-reviewed article for Acta Anaesthesiol Scand (2008). Presented and published an abstract in Reg Anesth Pain Med (2007) Current Status: Anesthesiologist Outcome: | 06/2005 - 06/2008 |
| Ladlie, Beth (Anesthesia Resident) Description: Primary Anesthesia Faculty Advisor to Resident (2007-2008). Served as senior advisor for research protocol (IRB #07-002759), as well as for poster presentation at World Congress of Anaesthesiologists (South Africa, 3/2008). Advised on two abstracts presented and published and a manuscript currently "in press" in Anesthesia & Analgesia. Faculty advisor for Dr. Ladlie during the Gulf Atlantic Anesthesia Residents Research Conference (GAARRC) in New Orleans, April 2007. Current Status: Senior Associate Consultant - Mayo Clinic, Jacksonville, FL (06/2009 - present) Outcome: | 06/2006 - 06/2008 |
| Rodriguez, Gabriel (Anesthesia Resident) Description: Anesthesia Faculty Advisor to Resident (2007-2009). Served as senior advisor for research protocols (IRB #07-002759, 06-006358, and 07- 004716), as well as poster presentation at a national meeting (IARS), resulting in an abstract published. Current Status: Pain Medicine Fellowship, Mayo Clinic Florida, 07/2009 - 06/2010 Outcome: | 06/2006 - 06/2008 |

- Riutort, Kevin (Anesthesia Resident) 06/2006 - 06/2009
Description: Mentored in abstract, publication of original research and presentations. Published peer-reviewed articles in J Anesth (2009), Anesth Analg (2009), and J Rom Anest Terap Intl (2011). Collaborated on abstracts for Anesthesiology (2007) and Reg Anesth Pain Med (2007, 2008)
Current Status: Anesthesiologist
Outcome:
- Clendenen, Nathan (Research Trainee) 05/2007 - 08/2007
Description: Assisted with research studies, posters, and presentations. Published article: "Applications of Real-Time 3D Ultrasound." Royal College of Surgeons Ireland Surgical Society. The Scalpel [newsletter], Vol 3, Issue 1, Feb 2009, pp 1-3.
Current Status: Anesthesiology Residency, Yale University
Outcome:
- Bietenholz, Kathryn (Anesthesiology Resident) 06/2007 - 06/2010
Description: Mentored in abstracts. Collaborated on an abstract for Anesthesiology (2007).
Current Status: Senior Associate Consultant - Mayo Clinic, Jacksonville, FL (07/2010 - present)
Outcome:
- Freidenstein, James (Anesthesia Resident) 06/2007 - 06/2010
Description: Anesthesia Resident Advisor (2007-2010). Mock oral board examination with feedback and evaluation on 11/9/2009 and 6/14/2010. Mentored in abstract, publication of original research and presentations. Published a peer-reviewed article in Anesthesiol Res Pract (2010).
Current Status:
Outcome:
- Ladlie, Beth (Regional Anesthesia Fellow) 06/2008 - 07/2009
Description: Dr. Beth Ladlie presented abstracts and workshops at various regional anesthetic meetings and she prepared manuscripts for acceptance in major anesthesiology journals. She progressed to independent practice of advanced regional anesthesia including all continuous catheter applications.
Current Status: Senior Associate Consultant - Mayo Clinic, Jacksonville, FL (07/2009 - present)
Outcome:
- Soberon, Jose (Regional Anesthesia Fellow) 06/2009 - 07/2010
Description: Dr. Soberon presented abstracts and workshops at various regional anesthetic meetings. He progressed to independent practice of advanced regional anesthesia including all continuous catheter applications. Mentored in presentations and research protocols.
Current Status: Faculty Member, Oschner Clinic, New Orleans, LA
Outcome:
- Rospigliosi, Kelly (Regional Anesthesia Fellow) 07/2010 - 07/2011
Description:
Current Status: Regional Anesthesiologist
Outcome:
- Day, Jonathan (Regional Anesthesia Fellow) 07/2011 - 07/2012
Description:
Current Status: Regional Anesthesiologist
Outcome:

| | |
|--|-------------------|
| Porter, Steven (Regional Anesthesia Fellow) | 07/2011 - 07/2012 |
| Description: | |
| Current Status: Regional Anesthesiologist | |
| Outcome: Assistant Professor of Anesthesiology, Mayo Clinic | |
| Candler, Shawn (Research Fellow) | 01/2012 - 01/2013 |
| Description: Mentored in publications. Collaborated on a peer-reviewed article in Pain Physicians (2013). | |
| Current Status: Research Fellow, Department of Pain Medicine, Mayo Clinic, Jacksonville, FL | |
| Outcome: | |
| Golbaba, Babak (Regional Anesthesia Fellow) | 07/2012 - 07/2013 |
| Description: | |
| Current Status: Regional Anesthesiologist | |
| Outcome: | |
| Isenhower, Matthew (Regional Anesthesia Fellow) | 07/2012 - 07/2013 |
| Description: | |
| Current Status: Regional Anesthesiologist | |
| Outcome: | |
| Ardon, Alberto (Regional Anesthesia Fellow) | 07/2013 - 07/2014 |
| Description: | |
| Current Status: Regional Anesthesiologist | |
| Outcome: | |
| Bhuria, Upasna (Regional Anesthesia Fellow) | 07/2013 - 07/2014 |
| Description: | |
| Current Status: Regional Anesthesiologist | |
| Outcome: | |

Academic Career Development

| | |
|--|-------------------|
| Business Administration Program American Society of Anesthesiologists The Woodlands, Texas | 03/2005 - 01/2006 |
| Presentation Skills for Physicians Mayo Clinic Workforce Education & Development Jacksonville, Florida | 05/2010 |

Institutional/Departmental Administrative Responsibilities, Committee Memberships and Other Activities

Mayo Clinic

Department of Education Administration
 Mayo Clinic College of Medicine
 Mayo Clinic School of Health-Related Sciences
 Subcommittee Member 2011 - Present

Mayo Clinic in Florida

Department of Anesthesiology
 Administrative Committee
 Member 01/2007 - Present

Anesthesia Practice Management
 Member 01/2007 - Present
 Chair 01/2007 - Present

Anesthesia Research Committee
 Member 01/2005 - Present

Finance Committee
 Member 01/2005 - 05/2007
 Member 01/2010 - Present

Performance Improvement Committee
 Member 01/2007 - Present

Presentations Extramural

National or International

Invited

Infections with Anaesthetic Implications Part 1 (Quiz): Ludwig's angina, epiglottitis, quinsy, croup, etc. 09/17/2005
 Panel Speaker for New Zealand Anaesthesia Education Committee in association with Mayo Clinic College of Medicine.
 Infection and the Anaesthetists/Anesthesiologist Symposium
 Nelson, New Zealand

Infections with Anaesthetic Implications Part 2: PBLD necrotizing fasciitis, meningococcaemia, influenza, resistant organisms, etc. 09/17/2005
 Panel Speaker for New Zealand Anaesthesia Education Committee in association with Mayo Clinic College of Medicine.
 Infection and the Anaesthetists/Anesthesiologist Symposium
 Nelson, New Zealand

Paravertebral Blocks 04/29/2006 -
 5th Annual Comprehensive Regional Anesthesia Workshop 04/30/2006
 Bethesda, Maryland

Regional Anesthesia and Home Analgesia 01/22/2007
 Anesthesia and Perioperative Medicine Conference Sponsored by Academic Hospital Affiliates / University of Alabama
 Vail, Colorado

Regional Anesthesia 04/2007
 6th Annual Comprehensive Regional Anesthesia Workshop
 Bethesda, Maryland

| | |
|--|------------|
| Femoral/Lateral Femoral/Obturator/Paravertebral 5th Annual Fireworks in Anatomy of Regional Blockade Louisville, Kentucky | 05/2007 |
| What's different about Ultra-Sound for Regional Anesthesia 5th Annual Fireworks in Anatomy of Regional Blockade Louisville, Kentucky | 05/2007 |
| Paravertebral and Thoracic Nerve Blocks 1st Annual NYSORA Europe Symposium London, United Kingdom | 11/18/2007 |
| Upper Extremity Regional Blocks 6th Annual Regional Anesthesia & Acute Pain Management Course New York, New York | 12/16/2007 |
| Neuromuscular Session Anesthesia and Perioperative Medicine Conference Sponsored by Academic Hospital Affiliates / Univ of AL Vail, Colorado | 01/21/2008 |
| Cutting Edge Ultrasound 3-Dimensional and Beyond Anesthesia and Perioperative Medicine Conference Sponsored by Academic Hospital Affiliates / Univ of AL Vail, Colorado | 01/23/2008 |
| Ultrasound Anatomy of the Neck and Upper Extremity and Needle Approaches for Successful Blockade. Part II: Below the Clavicle The USRA Skills Course. Sponsored by Institute for Advanced Medical Education Atlanta, Georgia | 10/03/2008 |
| Ultrasound Anatomy of the Neck and Upper Extremity and Needle Approaches for Successful Blockade. Part I. The USRA Skills Course. Sponsored by Institute for Advanced Medical Education Atlanta, Georgia | 10/04/2008 |
| Ultrasound: Future Applications, Controversies, and Wrap Up The USRA Skills Course. Sponsored by Institute for Advanced Medical Education Atlanta, Georgia | 10/04/2008 |
| Will Ultrasound Really Improve Regional Anesthesia? Myths, Truths, and Unknowns. Co-Moderator: Ultrasound Will Not Significantly Impact Safety American Society of Anesthesiologists Annual Meeting Orlando, Florida | 10/18/2008 |
| Ultrasound Anatomy of the Neck and Upper Extremity and Needle Approaches for Successful Blockade. Part I. The USRA Skills Course. Sponsored by Institute for Advanced Medical Education Chicago, Illinois | 12/05/2008 |
| Ultrasound Anatomy of the Neck and Upper Extremity and Needle Approaches for Successful Blockade. Part II: Below the Clavicle The USRA Skills Course. Sponsored by Institute for Advanced Medical Education Chicago, Illinois | 12/05/2008 |
| Ultrasound: Future Applications, Controversies, and Wrap Up The USRA Skills Course. Sponsored by Institute for Advanced Medical Education Chicago, Illinois | 12/06/2008 |
| Pros & Cons of Ultrasound-Guided Nerve Blocks Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/19/2009 |

| | |
|--|------------|
| Regional Anesthesia Workshop Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/19/2009 |
| Regional Anesthesia Cadaver Workshop - Faculty Member 8th Annual Comprehensive Regional Anesthesia Workshop Bethesda, Maryland | 04/26/2009 |
| Workshop II: Ultrasound in Anesthesia Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Scottsdale, Arizona | 05/14/2009 |
| Workshop VII: Ultrasound in Anesthesia Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Scottsdale, Arizona | 05/15/2009 |
| Regional Blocks for Postoperative Analgesia in Ambulatory Surgery Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Scottsdale, Arizona | 05/17/2009 |
| Workshop I: Ultrasound-Guided Regional Blocks 2nd International Congress of the Society of Anesthesiology Reanimatology of the Republic of Moldova Chisinau, Moldova | 08/29/2009 |
| Ultrasound-Guided Regional Anesthesia Lecture 2nd International Congress of the Society of Anesthesiology Reanimatology of the Republic of Moldova Chisinau, Moldova | 08/30/2009 |
| Regional Anesthesia Block Workshop [instructor] 6th Annual International Symposium of Ultrasound and Regional Anaesthesia (ISURA) Schwetzingen, Germany | 09/13/2009 |
| 2-D, 3-D, or 4-Dimensional Ultrasound Lecture 6th Annual International Symposium of Ultrasound and Regional Anaesthesia (ISURA) Schwetzingen, Germany | 09/14/2009 |
| Cadaver Workshop - Part I [instructor] 6th Annual International Symposium of Ultrasound and Regional Anaesthesia (ISURA) Innsbruck, Austria | 09/15/2009 |
| Cadaver Workshop - Part II [instructor] 6th Annual International Symposium of Ultrasound and Regional Anaesthesia (ISURA) Innsbruck, Austria | 09/16/2009 |
| Regional Anesthesia: Nerve Injury and Local Anesthesia Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/06/2009 |
| Regional Anesthesia: Peripheral Nerve Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/06/2009 |

| | |
|---|----------------------------|
| Regional Anesthesia: Nerve Injury and Local Anesthesia Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 11/14/2009 |
| Regional Anesthesia: Peripheral Nerve Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 11/14/2009 |
| Moderator for Morning Sessions 1/19/2010 and 1/21/2010 Anesthesia and Perioperative Medicine Conference Sponsored by Academic Hospital Affiliates / University of Alabama Vail, Colorado | 01/19/2010 |
| Regional Anesthesia Update Anesthesia and Perioperative Medicine Conference Sponsored by Academic Hospital Affiliates / University of Alabama Vail, Colorado | 01/20/2010 |
| Regional Anesthesia Workshop Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/18/2010 |
| New Techniques in Regional Anesthesia Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/20/2010 |
| Advanced Ultrasound-Guided Nerve Block (workshop) International Anesthesia Research Society (IARS) Annual Meeting Honolulu, Hawaii | 03/20/2010 |
| Psoas Compartment Block: Nerve Stimulator and Ultrasound Techniques International Anesthesia Research Society (IARS) Annual Meeting Honolulu, Hawaii | 03/21/2010 |
| Ultrasound-Guided Thoracic Paravertebral Block International Anesthesia Research Society (IARS) Annual Meeting Honolulu, Hawaii | 03/22/2010 |
| Regional Anesthesia: Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 04/11/2010 |
| Regional Anesthesia: Nerve Injury and Local Anesthetic Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 04/11/2010 |
| Advanced Regional Catheters with Ultrasound (Workshop I) Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Baltimore, Maryland | 04/29/2010 |
| Advanced Regional Catheters with Ultrasound (Workshop II) Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Baltimore, Maryland | 04/30/2010 |
| Regional Anesthesia Cadaver Workshop - Faculty Member 9th Annual Comprehensive Regional Anesthesia Workshop Bethesda, Maryland | 05/01/2010 - 05/02/2010 |

| | |
|--|----------------------------|
| Regional Anesthesia: Infraclavicular, Axillary, and Blocks at the Elbow The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 05/14/2010 |
| Regional Anesthesia: Nerve Injury and Local Anesthesia Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 05/14/2010 |
| Regional Anesthesia: Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 05/22/2010 |
| Regional Anesthesia: Nerve Injury and Local Anesthesia Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 05/22/2010 |
| 4-Dimensional Ultrasound-Guided Femoral Nerve Block (UIA contest) Ultrasound and Regional Anesthesia 7th Annual International Symposium. Sponsored by ISURA. Toronto, Ontario, Canada | 06/04/2010 - 06/06/2010 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 10/23/2010 |
| Sciatic Nerve Blocks: Subgluteal & Popliteal The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 10/23/2010 |
| Ambulatory Catheters: Who, What, When, Why, and How? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 10/24/2010 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 11/05/2010 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 11/05/2010 |
| Ambulatory Catheters: Who, What, When, Why, and How? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 11/06/2010 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/12/2010 |
| Sciatic Nerve Blocks: Subgluteal & Popliteal The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/12/2010 |

| | |
|--|----------------------------|
| Ambulatory Catheters: Who, What, When, Why, and How? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/13/2010 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/10/2011 |
| Ambulatory Catheters: Who, What, When, Why, and How? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/12/2011 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 02/25/2011 |
| Ambulatory Catheters: Who, What, When, Why, and How? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 02/26/2011 |
| Continuous Perineural Catheters: The Basics? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 02/26/2011 |
| Ambulatory Catheters: Who, What, When, Why, and How? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Pensacola, Florida | 03/26/2011 |
| Continuous Perineural Catheters: The Basics? The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Pensacola, Florida | 03/27/2011 |
| Regional Anesthesia Cadaver Workshop - Faculty Member 9th Annual Comprehensive Regional Anesthesia Workshop Bethesda, Maryland | 04/30/2011 - 05/01/2011 |
| Advanced Regional Catheters with Ultrasound (Workshop I) Society for Ambulatory Anesthesia (SAMBA) Annual Meeting San Antonio, Texas | 05/05/2011 |
| Advanced Regional Catheters with Ultrasound (Workshop II) Society for Ambulatory Anesthesia (SAMBA) Annual Meeting San Antonio, Texas | 05/06/2011 |
| Advanced Regional Catheters with Ultrasound (Workshop III) Society for Ambulatory Anesthesia (SAMBA) Annual Meeting San Antonio, Texas | 05/06/2011 |
| Advanced Regional Catheters with Ultrasound (Resident Hands-On Workshop) Society for Ambulatory Anesthesia (SAMBA) Annual Meeting San Antonio, Texas | 05/07/2011 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/09/2012 |

| | |
|--|------------|
| Nerve Injury and LA Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/09/2012 |
| Ultrasound Guided Vascular Access and Management of Ambulatory Nerve Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/11/2012 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Dallas, Texas | 03/03/2012 |
| Nerve Injury and LA Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Dallas, Texas | 03/03/2012 |
| Ultrasound Guided Vascular Access and Management of Ambulatory Nerve Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Dallas, Texas | 03/04/2012 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) New York, New York | 04/14/2012 |
| Nerve Injury and LA Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) New York, New York | 04/14/2012 |
| Ultrasound Guided Vascular Access and Management of Ambulatory Nerve Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) New York, New York | 04/15/2012 |
| Advanced Regional Ultrasound Techniques (Workshop) Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Miami, Florida | 05/04/2012 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 05/05/2012 |
| Nerve Injury and LA Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 05/05/2012 |
| Ultrasound Guided Vascular Access and Management of Ambulatory Nerve Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 05/06/2012 |

| | |
|---|----------------------------|
| Ambulatory Peripheral Nerve Catheters Society for Ambulatory Anesthesia (SAMBA)- Webinar Florida | 07/11/2012 |
| Nerve Injury and LA Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 11/03/2012 |
| TAP The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 11/03/2012 |
| Ambulatory Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 11/04/2012 |
| Interscalene & Supraclavicular Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Miami, Florida | 11/04/2012 |
| Ambulatory Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/09/2012 |
| Nerve Injury and LA Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/09/2012 |
| Infraclavicular, Axillary & Blocks at the Elbow The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 11/10/2012 |
| 6th International Conference of the Royal Medical Services Amman, Jordan | 11/19/2012 - 11/22/2012 |
| Ambulatory Catheters The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 12/01/2012 |
| Nerve Injury and LA Toxicity The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 12/01/2012 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Chicago, Illinois | 12/02/2012 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/08/2013 |

| | |
|--|------------|
| Ultrasound Guided Vascular Access The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/08/2013 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Vail, Colorado | 02/09/2013 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 03/08/2013 |
| Ultrasound Guided Vascular Access The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 03/08/2013 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Las Vegas, Nevada | 03/09/2013 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 03/16/2013 |
| Ultrasound Guided Vascular Access The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 03/16/2013 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) Atlanta, Georgia | 03/17/2013 |
| Femoral and Saphenous Blocks The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) New York, New York | 04/06/2013 |
| Ultrasound Guided Vascular Access The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) New York, New York | 04/06/2013 |
| Documentation & Billing: Getting Properly Paid for Your Labors The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) New York, New York | 04/07/2013 |
| Nerve Injury and LA Toxicity: Facts and Fiction The USRA Skills Course. Sponsored by Institute for Advanced Medical Education (IAME) New York, New York | 04/07/2013 |
| Ambulatory Continuous Regional Analgesia Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Scottsdale, Arizona | 04/12/2013 |

| | |
|---|------------|
| Hands-On Workshop: Regional Ultrasound Techniques Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Scottsdale, Arizona | 04/13/2013 |
| Resident Hands-On Workshop: Regional Ultrasound Techniques Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Scottsdale, Arizona | 04/13/2013 |
| How Do I Set Up an Ambulatory Pain Service? What Do I Need? Is it Worth it? Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Baltimore, Maryland | 04/24/2014 |
| Hands-On Workshop: Advanced (Catheter Placement) Regional Ultrasound Workshop Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Baltimore, Maryland | 04/25/2014 |
| Hands-On Workshop: BASIC (Single Shot) Regional Ultrasound Workshop Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Baltimore, Maryland | 04/25/2014 |
| Resident Only Hands-On Workshop: Regional Ultrasound Techniques Society for Ambulatory Anesthesia (SAMBA) Annual Meeting Baltimore, Maryland | 04/26/2014 |
| Regional Anesthesia for Lower Limb: Surgery Update Anaesthesia and Critical Care Symposium Mayo, Ireland | 09/10/2016 |
| Whole- Exome Sequencing of a Family Quartet of Local Anesthesia Resistance ASA National Scientific Congress 2016 Melbourne, Australia | 09/17/2016 |
| Peripheral nerve blockade in a patient with Ehlers-Danlos Syndrome and local anesthetic resistance ASA National Scientific Congress 2016 Melbourne, Australia | 09/18/2016 |
| Local Anesthetic Resistance and Genomic Sequencing Clendenen SR. American Society of Anesthesiologists Annual Meeting Chicago, Illinois | 10/23/2016 |
| Pharmacogenomics to Pharmacogenomics to Pharmaco-omics: Implications for Regional Anesthesia and Pain Management (Moderator) Clendenen SR. American Society of Anesthesiologists Annual Meeting Chicago, Illinois | 10/23/2016 |
| Oral Ultrasound & Regional Anesthesia 4th Annual Symposium ISURA 2007 Schloss, Germany | 03/2007 |
| Thoracic Paravertebral, Intercostal Blocks 32nd annual Regional Anesthesia Meeting & Workshop Vancouver, British Columbia, Canada | 04/2007 |
| Regional Anesthesia Visiting Faculty 20th Annual Carolina Refresher Course, Wake Forest University, Winston-Salem, NC Kiawah, South Carolina | 06/2007 |

| | |
|---|------------|
| Pros & Cons of Ultrasound-Guided Nerve Blocks Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/19/2009 |
| Regional Anesthesia Workshop Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/19/2009 |
| Regional Anesthesia Workshop Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/18/2010 |
| New Techniques in Regional Anesthesia Mayo Clinic Symposium on Anesthesia & Perioperative Medicine Phoenix, Arizona | 02/20/2010 |
| Ultrasound Detection of the Vasa Nervorum of the Popliteal Sciatic Nerve by Color Power Angio (Poster) International Anesthesia Research Society (IARS) annual meeting Vancouver, British Columbia, Canada | 05/21/2011 |
| Intraoperative Management of an Ischemic Hand After Radial Artery Catheterization (Poster) Authors: Maryak BN, Clendenen SR International Anesthesia Research Society (IARS) annual meeting Vancouver, British Columbia, Canada | 05/22/2011 |
| Billing For Ultrasound Guided Blocks 2011 Ultrasound Guided Regional Anesthesia And Vascular Access Workshop Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina | 07/06/2011 |
| Hands-On Demonstration and Practice Sessions with Various Ultrasound Machines as Provided by Vendors (Workshop Moderator) 2011 Ultrasound Guided Regional Anesthesia And Vascular Access Workshop Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina | 07/06/2011 |
| Ultrasound Anatomy of Neck and Upper Extremity 2011 Ultrasound Guided Regional Anesthesia And Vascular Access Workshop Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina | 07/06/2011 |
| Ultrasound Anatomy of the Lower Extremity 2011 Ultrasound Guided Regional Anesthesia And Vascular Access Workshop Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina | 07/06/2011 |
| Ultrasound 101: What's Different about Ultrasound for Regional Anesthesia? Anesthesia Update: Emphasis on Regional Anesthesia and Pain Management Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina | 07/07/2011 |
| Ultrasound Guided Vascular Access Anesthesia Update: Emphasis on Regional Anesthesia and Pain Management Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina | 07/07/2011 |
| Regional Anesthesia and Analgesia for Orthopedic Surgery Anesthesia Update: Emphasis on Regional Anesthesia and Pain Management Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina | 07/08/2011 |

| | |
|--|----------------------------|
| <p>Ultrasound Anatomy of the Lower Extremity and Needle Approaches for Successful Blockade Anesthesia Update: Emphasis on Regional Anesthesia and Pain Management Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina</p> | 07/09/2011 |
| <p>Ultrasound Anatomy of the Neck and Upper Extremity and Needle Approaches for Successful Blockade Anesthesia Update: Emphasis on Regional Anesthesia and Pain Management Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina</p> | 07/09/2011 |
| <p>Paravertebral and Thoracic Nerve Blocks Anesthesia Update: Emphasis on Regional Anesthesia and Pain Management Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina</p> | 07/10/2011 |
| <p>Regional Anesthesia Complication: Nerve Injury and Local Anesthesia Toxicity Anesthesia Update: Emphasis on Regional Anesthesia and Pain Management Northwest Anesthesia Seminars, Inc. (NWAS) Myrtle Beach, South Carolina</p> | 07/10/2011 |
| <p>3-Dimensional Ultrasound for Regional Anesthesia [Poster] Authors: Clendenen SR. American Society of Anesthesiologists Annual Meeting Chicago, Illinois</p> | 10/15/2011 - 10/19/2011 |
| <p>Principles of Clinical Ultrasound Use for Regional and Vascular Access Northwest Anesthesia Seminars, Inc. (NWAS) Dallas, Texas</p> | 02/29/2012 |
| <p>Ultrasound Anatomy of Neck and Upper Extremity Northwest Anesthesia Seminars, Inc. (NWAS) Dallas, Texas</p> | 02/29/2012 |
| <p>Ultrasound Anatomy of the Lower Extremity Northwest Anesthesia Seminars, Inc. (NWAS) Dallas, Texas</p> | 02/29/2012 |
| <p>Ultrasound facilitated epidurals and spinals in obstetrics The 5th International Symposium on Anesthesia and related fields: Update in Obstetrical Anesthesia B'nai Brak, Israel</p> | 08/31/2012 |
| <p>Ultrasound Guided Nerve Blocks - Workshop 3rd International Congress of the Society of Anesthesiology and Reanomatology of the Republic of Moldova in Conjunction with Congress on Emergency Medicine Chisinau, Moldova</p> | 09/06/2012 |
| <p>What patients and procedures should be considered for a regional anaesthetic technique. 3rd International Congress of the Society of Anesthesiology and Reanomatology of the Republic of Moldova in Conjunction with Congress on Emergency Medicine Chisinau, Moldova</p> | 09/07/2012 |
| <p>TAP Block, Paravertebral Block or Thoracic Epidural: Is there an ideal Truncal Block? American Society of Anesthesiologists Annual Meeting Washington, District of Columbia</p> | 10/14/2012 |
| <p>Perineural Catheter Infusion Management 1st Annual Acute Pain Medicine & Regional Anesthesia Course Baltimore, Maryland</p> | 04/26/2013 |

| | |
|--|------------|
| Cadaver Dissection + Ultrasound Guided Cadaver Blocks (Workshops) 1st Annual Acute Pain Medicine & Regional Anesthesia Course Baltimore, Maryland | 04/27/2013 |
| Periprocedural Workshop (Femoral, Sciatic, Peroneal, P. Tibial, Saphenous, TAP) The American Academy of Pain Medicine Annual Conference Phoenix, Arizona | 03/06/2014 |
| Transversus Abdominis Plane Block, Paravertebral Block or Thoracic Epidural: Is There an Ideal Truncal Block? American Society of Anesthesiologists Annual Meeting New Orleans, Louisiana | 10/12/2014 |
| Infrapatellar Saphenous Neuralgia After TKA Can Be Improved With Ultrasound-guided Local Treatments American Society of Regional Anesthesia and Pain Medicine San Francisco, California | 11/14/2014 |
| Clinical Protocols in Regional Anesthesia and Acute Pain 3rd Annual Acute Pain Medicine & Regional Anesthesia Course Baltimore, Maryland | 02/14/2015 |
| Whole Exome Sequencing of a Family with Local Anesthetic Resistance Individualizing Medicine 2015 Conference Rochester, Minnesota | 09/2015 |
| Basic Lower Limb Workshop - Popliteal, Ankle 12th International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine (ISURA) Rotterdam, Netherlands | 10/03/2015 |
| Different approaches to sciatic nerve, lumbar plexus, obturator nerve, and lateral femoral cutaneous nerve. Hip and Knee Advanced Workshop 12th International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine (ISURA) Rotterdam, Netherlands | 10/03/2015 |
| Ultrasound 101: What's Different Ultrasound for Regional Anesthesia? Northwest Anesthesia Seminars, Inc. (NWAS) Wyoming | 06/06/2016 |
| Ultrasound Guided Vascular Access Northwest Anesthesia Seminars, Inc. (NWAS) Wyoming | 06/06/2016 |
| Peripheral Nerve Catheters and Home Management Northwest Anesthesia Seminars, Inc. (NWAS) Wyoming | 06/07/2016 |
| US Guided Central Neuraxial Block: Spinals, Thoracic Lumbar Epidurals Northwest Anesthesia Seminars, Inc. (NWAS) Wyoming | 06/07/2016 |
| Obstructive Sleep Apnea Northwest Anesthesia Seminars, Inc. (NWAS) Wyoming | 06/09/2016 |
| Enhanced Recovery Protocols and Anesthesia Northwest Anesthesia Seminars, Inc. (NWAS) Wyoming | 06/10/2016 |
| Mgmt of Cerebral Aneurysms: Interventional Radiology in the O.R. Northwest Anesthesia Seminars, Inc. (NWAS) Wyoming | 06/10/2016 |

| | |
|--|----------------------------|
| Perioperative Gabapentin (PRO/CON) (PBLD) Acute Pain Medicine & Regional Anesthesia Course Baltimore, Maryland | 02/24/2017 |
| Sciatic Ultrasound Guided Blocks Acute Pain Medicine & Regional Anesthesia Course Baltimore, Maryland | 02/24/2017 |
| Truncal Ultrasound Acute Pain Medicine & Regional Anesthesia Course Baltimore, Maryland | 02/25/2017 |
| Ultrasound 101: What's Different About Ultrasound for Regional Anesthesia? Northwest Anesthesia Seminars, Inc. (NWAS) Amelia Island, Florida | 09/25/2017 |
| Ultrasound Guided Vascular Access Northwest Anesthesia Seminars, Inc. (NWAS) Amelia Island, Florida | 09/25/2017 |
| Ultrasound-Guided Central Neuraxial Block: Spinals, Thoracic, and Lumbar Epidurals Northwest Anesthesia Seminars, Inc. (NWAS) Amelia Island, Florida | 09/26/2017 |
| Acute Pain Management in the Chronic Pain Patient Northwest Anesthesia Seminars, Inc. (NWAS) Amelia Island, Florida | 09/27/2017 |
| Enhanced Recovery Protocols and Anesthesia Northwest Anesthesia Seminars, Inc. (NWAS) Amelia Island, Florida | 09/27/2017 |
| Regional Anesthesia Complication: Nerve Injury and Local Anesthesia Toxicity Northwest Anesthesia Seminars, Inc. (NWAS) Amelia Island, Florida | 09/27/2017 |
| Poster | |
| Interscalene Brachial Plexus Block with Sparing of Phrenic Nerve by Interscalene Catheter (Poster) Authors: Clendenen SR, Rajendran S, Bauer P, Weinstein DM, Elias JJ. American Society of Regional Anesthesiologists (ASRA) Annual Meeting Toronto, Ontario, Canada | 04/21/2005 - 04/25/2005 |
| 3D Ultrasound-Assisted popliteal Catheter Placement (Poster) Authors: Clendenen S, Feinglass NG, Greengrass RA. American Society of Regional Anesthesiologists (ASRA) 31st Annual Meeting Rancho Mirage, California | 04/06/2006 - 04/09/2006 |
| 3D Ultrasound-Assisted popliteal Catheter Placement (Poster) Authors: Clendenen S, Feinglass NG, Greengrass RA. 5th Regional Anesthesia & Acute Pain Management Meeting. New York School of Regional Anesthesiologists (NYSORA) Annual Meeting New York, New York | 12/16/2006 - 12/17/2006 |
| The Role of Regional Anesthesia in Evaluating the Feasibility of Peripheral Sympathectomy in a Patient with Raynaud's Phenomenon (Poster) Authors: Emerson BR, Feinglass NG, Greengrass RA, Clendenen SR American Society of Regional Anesthesiologists 32nd Annual Meeting Vancouver, British Columbia, Canada | 04/19/2007 - 04/22/2007 |
| 3D Ultrasound and Central Venous Catheter Insertion International Anesthesia Research Society Annual Meeting San Francisco, California | 08/2007 |

| | |
|---|----------------------------|
| Paravertebral Blocks for Pain Control in Patients Undergoing Hand-Assisted Laparoscopic Nephrectomy (Poster) Society of Laparoscopic Surgeons Annual Meeting San Francisco, California | 09/07/2007 |
| Paravertebral Blocks for Postoperative Analgesia Following Laparoscopic Nephrectomy for a Patient with Critical Aortic Stenosis (Poster) Authors: Clendenen SR, Harrison BA, Greengrass RA. American Society of Anesthesiologists Annual Meeting San Francisco, California | 10/13/2007 - 10/17/2007 |
| Percutaneous Localization of Nerves Using the Stimuplex Pen (Poster) American Society of Anesthesiologists Annual Meeting San Francisco, California | 10/13/2007 - 10/17/2007 |
| Real-Time 3-Dimensional Ultrasound for Continuous Interscalene Brachial Plexus Block (Poster) Authors: Clendenen SR, Greengrass RA, Riutort K, Brull SJ. American Society of Anesthesiologists Annual Meeting San Francisco, California | 10/13/2007 - 10/17/2007 |
| 3-Dimensional Ultrasound-Guided Axillary Nerve Block (poster) Clendenen SR, Ladlie B, Greengrass RA (Authors) 14th World Congress of Anaesthesiologists Cape Town, South Africa | 03/06/2008 |
| Real-Time 3-Dimensional Ultrasound for Continuous Interscalene Brachial Plexus Blockade (poster) Clendenen SR, Greengrass RA, Riutort KT, Brull SJ (Authors) 14th World Congress of Anaesthesiologists Cape Town, South Africa | 03/06/2008 |
| 3D Ultrasound and Central Venous Catheter Insertion (Poster) Authors: Harrison BA, Clendenen SR, Shine TS, Clendenen NJ, Aniskevich S International Anesthesia Research Society Annual Meeting San Francisco, California | 03/29/2008 - 04/01/2008 |
| A Case of Peripheral Nerve Blocks Aiding in the Diagnosis of Acute Myocardial Infarction (Poster) Authors: Noboa JA, Clendenen SR, Harrison BA International Anesthesia Research Society Annual Meeting San Francisco, California | 03/29/2008 - 04/01/2008 |
| Epidural versus Peripheral Nerve Catheters for Analgesia Post-Total Knee Arthroplasty (Poster) Authors: Harrison BA, Clendenen NJ, Clendenen SR, Blasser K, Greengrass R International Anesthesia Research Society Annual Meeting San Francisco, California | 03/29/2008 - 04/01/2008 |
| Real-Time 3-Dimensional Ultrasound for Continuous Infraclavicular Brachial Plexus Blockade (Poster) Authors: Clendenen SR, Freidenstein JE, Clendenen NJ International Anesthesia Research Society Annual Meeting San Francisco, California | 03/29/2008 - 04/01/2008 |
| Regional Anesthesia for Middle Fossa Craniotomy for Semicircular Canal Surgery (Poster) Authors: Rodriguez GA, Greengrass RA, Clendenen SR, Lundy L, Cucchiara RF International Anesthesia Research Society Annual Meeting San Francisco, California | 03/29/2008 - 04/01/2008 |

- Femoral Catheter Placement Utilizing Ultrasound and a Needle Guidance System (Poster) 05/02/2008
 Authors: Plunkett A, Orallo P, Greengrass RA, Buckenmaier CC, Clendenen SA.
 American Society of Regional Anesthesiologists (ASRA) 33rd Annual Meeting
 Playa del Carmen, Cancun, Mexico, Mexico
- Pregabalin with Interscalene Block Does not Reduce the Opioid Requirement following Arthroscopic Rotator Cuff Repair (Poster) 05/02/2008
 Authors: Clendenen SR, Rajendran S, Greengrass RA, Weinstein D, Kopacz D.
 American Society of Regional Anesthesiologists (ASRA) 33rd Annual Meeting
 Playa del Carmen, Cancun, Mexico, Mexico
- Management of an emergent cerebral aneurysm with an anterior mediastinal mass [Poster]. 10/16/2008 - 10/20/2008
 Authors: Cartwright JA, Clendenen SR
 American Society of Anesthesiologists Annual Meeting
 San Diego, California
- Acute Pulmonary Edema with Multi-System Organ Failure During Right Total Shoulder Arthroplasty [Poster]. 10/18/2008 - 10/20/2008
 Authors: Freidenstein JE, Clendenen SR.
 American Society of Anesthesiologists Annual Meeting
 Orlando, Florida
- Popliteal catheter placement utilizing needle guidance system [Poster/Abstract A633]. 10/18/2008 - 10/20/2008
 Authors: Clendenen SR, Feinglass NG, Ladlie BL, Emerson B, Greengrass RA.
 American Society of Anesthesiologists Annual Meeting
 Orlando, Florida
- Real-Time 3-Dimensional Ultrasound for Continuous Infraclavicular Brachial Plexus Blockade (poster) 11/08/2008
 Authors: Clendenen SR, Freidenstein JE, Clendenen N
 2nd European NYSORA. Symposium on Regional Anaesthesia and Pain Medicine.
 London, United Kingdom
- Continuous Popliteal and Saphenous Block for Foot Surgery (Poster) 03/14/2009 - 03/17/2009
 Authors: Ladlie BL, Clendenen SR, Robards CB, Whalen JL, Greengrass RA
 International Anesthesia Research Society Annual Meeting
 San Diego, California
- Saphenous and Popliteal Sciatic Nerve Catheters for Analgesia following Foot Surgery (Electronic Poster) 07/16/2009 - 07/18/2009
 Authors: Clendenen S, Ladlie B, Whalen J, Robards C, Greengrass RA
 American Orthopaedic Foot & Ankle Society. 25th Annual Summer Meeting
 Vancouver, British Columbia, Canada
- Anesthetic Management for Emergent Below-Knee Amputation for Patient with Ischemic Cardiomyopathy, Respiratory Failure, Congestive Heart Failure, and Anticoagulation: Regional Anesthesia? [Poster] 10/17/2009 - 10/21/2009
 Authors: Clendenen SR.
 American Society of Anesthesiologists Annual Meeting
 New Orleans, Louisiana
- Ultrasound-Guided Neuroma Resection and Saphenous Nerve Catheter Placement (Poster) 11/19/2009
 Authors: Bacani CJ, Clendenen SR, Murray PM.
 Pain Medicine Meeting and Workshops -- American Society of Regional Anesthesiologists (ASRA)
 San Antonio, Texas

| | |
|---|----------------------------|
| Real-Time Three-Dimensional Ultrasound-Assisted Placement of Intrathecal Catheter: Implications of New Technology (Poster - won award for Best Showing in Chronic Pain) Authors: Clendenen SR, Robards CB, Leone BJ International Anesthesia Research Society (IARS) Annual Meeting Honolulu, Hawaii | 03/20/2010 - 03/23/2010 |
| The Effects of Continuous Popliteal Sciatic and Saphenous Nerve Blocks on Arterial Blood Flow for Reconstructive Free Flap Graft to the Ankle: A Doppler Ultrasound Study (Poster) Authors: Clendenen SR International Anesthesia Research Society (IARS) Annual Meeting Honolulu, Hawaii | 03/20/2010 - 03/23/2010 |
| Real-Time Three-Dimensional Ultrasound-Assisted Placement of Intrathecal Catheter: Implications of New Technology (Poster) Authors: Clendenen SR, Robards CB, Leone BJ International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine (ISSPS) Hong Kong | 03/28/2010 - 03/30/2010 |
| Posterior Knee Pain Control Improvement Following Total Knee Arthroplasty with Scheduled Nurse-Delivered Sciatic Nerve Catheter Boluses (Poster) Authors: Clendenen AM, Christopher-Smith K, Howe B, Ladlie B, Clendenen SR American Society of Regional Anesthesia (ASRA) Annual Meeting Toronto, Ontario, Canada | 04/22/2010 - 04/25/2010 |
| Symptomatic Post-Laminectomy Cerebrospinal Fluid Leak (Poster) Authors: Clendenen SR, Robards CB, Leone BJ American Society of Regional Anesthesia (ASRA) Annual Meeting Toronto, Ontario, Canada | 04/22/2010 - 04/25/2010 |
| Electromagnetic Navigation or Piriformis Injection (video and poster) Authors: Clendenen SR, Ghazi S, Palmer S, Osborne M. American Society of Regional Anesthesia (ASRA) Annual Meeting Phoenix, Arizona | 11/18/2010 - 11/21/2010 |
| Preoperative Ultrasound Findings in Patients Undergoing Brachial Plexus Repair Authors: Renew R, Clendenen SC American Society of Regional Anesthesia (ASRA) Annual Meeting San Diego, California | 03/16/2012 |
| Exome Sequencing of a Patient with Local Anesthetic Resistance Stanford Medicine X Annual Conference Palo Alto, California | 09/05/2014 |
| WHOLE EXOME SEQUENCING OF A FAMILY WITH LOCAL ANESTHETIC RESISTANCE IARS 2015 Annual Meeting and International Science Symposium Honolulu, Hawaii | 03/2015 |
| Ultrasound-guided radiofrequency ablation of the infrapatellar nerve in the poor surgical candidate: A case report of a patient with Milroy Disease and severe knee osteoarthritis. American Society of Regional Anesthesia and Pain Medicine Las Vegas, Nevada | 05/2015 |
| A Comparative Cadaver Study of Automated Pulsed Bolus Versus Continuous Basal Infusion on Distribution of Dye in Popliteal and Adductor Canal Nerve Block Catheters (poster) American Society of Regional Anesthesiology (ASRA) San Diego, California | 11/18/2016 |

| | |
|---|------------|
| Regional Anesthesia for Rectus Abdominis Muscle Endometriosis Treated with Ethanol Injection SIMPAN - ISURA Meeting 2017 Florence, Italy | 03/31/2017 |
| A Comparative Cadaver Study of Automated Pulsed Bolus Versus Continuous Basal Infusion on Distribution of Dye in Interscalene Nerve Block Catheters (Poster) Authors: Budde B, Clendenen SR American Society of Regional Anesthesiologists South San Francisco, California | 04/06/2017 |
| Suprascapular Nerve Injury Following Ultrasound Guided Supraclavicular Brachial Plexus Block (Poster) American Society of Regional Anesthesiologists (ASRA) South San Francisco, California | 04/06/2017 |
| Regional | |
| Invited | |
| Anesthesia Equipment for ENT Surgery 6th Annual Equipment Meeting, Mayo Clinic Orlando, Florida | 02/1998 |
| Regional Anesthesia & Analgesia for Orthopedic Surgery 2nd Florida Hospital Peripheral Nerve Block Workshop Orlando, Florida | 01/26/2008 |
| Ultrasound Imaging and Regional Anesthesia 2nd Florida Hospital Peripheral Nerve Block Workshop Orlando, Florida | 01/26/2008 |
| Local Anesthetic Toxicity Florida Society of Anesthesiologists Annual Meeting Palm Beach, Florida | 06/28/2008 |
| Moderator: Resident Oral Board Review Session Florida Society of Anesthesiologists Annual Meeting Palm Beach, Florida | 06/29/2008 |
| Workshop: Ultrasound for Lower Extremity Florida Society of Anesthesiologists (FSA) Annual Meeting Palm Beach, Florida | 06/25/2010 |
| Workshop: Ultrasound for Upper Extremity Florida Society of Anesthesiologists (FSA) Annual Meeting Palm Beach, Florida | 06/25/2010 |
| Pro/Con: Ultrasound for Nerve Blocks Florida Society of Anesthesiologists (FSA) Annual Meeting Palm Beach, Florida | 06/26/2010 |
| Designing and Implementing an Acute Pain Service in a Community Hospital Administration Lecture, John C. Lincoln Health Network Phoenix, Arizona | 08/11/2010 |
| Role of an Acute Pain Service in a Community Hospital Trauma Grand Rounds, John C. Lincoln Health Network Phoenix, Arizona | 08/12/2010 |
| Ultrasound Workshop: 'Everything you Never Thought of Using Your Ultrasound For' Part 1 Florida Society of Anesthesiologists (FSA) Annual Meeting Palm Beach, Florida | 06/10/2011 |

| | |
|---|------------|
| Ultrasound Workshop: 'Everything you Never Thought of Using Your Ultrasound For' Part 2 Florida Society of Anesthesiologists (FSA) Annual Meeting Palm Beach, Florida | 06/10/2011 |
| Acute Pain Management for the Chronic Pain Patient Yale University School of Medicine - All Residents Lecture New Haven, Connecticut | 01/24/2012 |
| Lipid Rescue: Are You Prepared? Annual Meeting - American Society of Perianesthesia Nurses (ASPAN) Orlando, Florida | 04/18/2012 |
| Regional Blocks for Ambulatory Care Annual Meeting - American Society of Perianesthesia Nurses (ASPAN) Orlando, Florida | 04/19/2012 |
| Common Paravertebral Nerve Blocks and Local Anesthesia Systemic Toxicity Jacksonville Area Society of Perioperative Nursing Jacksonville, Florida | 10/2017 |
| Oral | |
| Granuloma Tissue Formation After Short Term Transtracheal Intubation 22nd Annual Gulf Atlantic Anesthesia Residents Conference (GAARC) Tampa, Florida | 04/1996 |
| Complications of Tracheal Tubes and Tracheostomy Tubes 5th Annual Equipment Meeting, Mayo Clinic Orlando, Florida | 02/1997 |
| Anaphylactic Reaction Following Cisatracurium 23rd Annual Gulf Atlantic Anesthesia Residents Conference (GAARC) Tampa, Florida | 05/1997 |
| Regional Anesthesia vs. General Anesthesia for Lower Extremity Orthopedic Surgery in the Elderly Florida Society of Anesthesiologists Annual mtg Palm Beach, Florida | 06/26/2009 |
| Ultrasound vs. No Ultrasound for Regional Anesthesia Florida Society of Anesthesiologists Annual mtg Palm Beach, Florida | 06/26/2009 |
| Local Anesthetic Toxicity and Lipid Rescue Florida Society of Perianesthesia Nurses (FLASPAN) 40th Annual Seminar Orlando, Florida | 10/24/2009 |
| Regional Anesthesia and Acute Pain Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine Fort Lauderdale, Florida | 03/10/2011 |
| Regional Anesthesia Workshop - Upper Extremity Mayo Clinic Symposium on Anesthesia and Perioperative Medicine Fort Lauderdale, Florida | 03/11/2011 |
| Ultrasound-Guided Neuraxial Blocks Mayo Clinic Symposium of Anesthesia and Perioperative Medicine Fort Lauderdale, Florida | 03/11/2011 |
| Acute Pain Management for the Chronic Pain Patient Mayo Clinic Symposium of Anesthesia and Perioperative Medicine Scottsdale, Arizona | 02/24/2012 |

Poster

A Comparative Cadaver Study of Automated Pulsed Bolus Versus Continuous Basal Infusion on Distribution of Dye in a Thoracic Paravertebral and Transversus Abdominus Plane Catheters
 American Society of Regional Anesthesiology (ASRA)
 San Diego, California 11/17/2016

Visiting Professorship**Visiting Professorships**

Diaphragm Paralysis with Interscalene Brachial Plexus Block
 Department of Anesthesiology, Mayo Clinic
 Jacksonville, Florida 01/10/2005

Regional Anesthesia
 Grand Rounds, Department of Anesthesiology, Wayne State University
 Detroit, Michigan 05/09/2007

Ultrasound for Regional Anesthesia
 Grand Rounds, Department of Anesthesiology, University of Miami School of Medicine
 Miami, Florida 06/09/2011

Ultrasound-Guided Neuraxial Blocks
 Grand Rounds, Department of Anesthesiology, University of Florida School of Medicine
 Jacksonville, Florida 08/03/2011

Ultrasound for the Anesthesiologist: Current Trends and Future Technology
 Grand Rounds, Department of Anesthesiology, West Virginia University School of Medicine
 Morgantown, West Virginia 08/31/2011

Ultrasound-Guided Neuraxial Blocks and Emerging Ultrasound Technology.
 Yale University School of Medicine - Grand Rounds
 New Haven, Connecticut 01/25/2012

Acute Pain Management for the Chronic Pain Patient
 Ochsner's Grand Rounds - Dept. of Anesthesiology
 New Orleans, Louisiana 04/08/2014 - 04/09/2014

Failure of Regional Anesthesia: Whole Exome Sequencing of a Family Quartet with Local Anesthesia Resistance
 Anesthesia Grand Rounds, Royal Perth Hospital
 Perth, Australia 09/29/2016 - Present

Clinical Practice, Interests, and Accomplishments

Regional anesthesia / Ambulatory anesthesia - utilization of perineural catheters for postoperative pain management. Use of 2-Dimensional (2-D),(3-D)and (4-D) ultrasound-guided regional anesthesia. 2008 - developed "Guidelines for the Management of Severe Local Anesthetic Toxicity" for quality assurance project.

Research Interests

US Patent Number: US 43820 - (filed, but currently not issued) System and Method for Detecting Vascular Contamination of Surgical Anesthetic by Non-Invasive IR Spectrophotometry - Inventors: Steven R. Clendenen, M.D., Barry K. Gilbert, Ph.D., Clifton R. Haider, Ph.D. IRB # 07-001891 Exempt. Title: 3 D Ultrasound Imaging of the Sciatic Nerve. Principal Investigator. 2007 IRB # 07-002104 Exempt. Title: Percutaneous localization of nerves using the B Braun Stimuplex Pen. Co-Investigator. 2007 IRB # 08-002290 Exempt. Title: Peripheral Nerve Blockade Facilitates Early Diagnosis of Post-operative AMI. Co-Investigator. 2008 IRB # 08-007278 Exempt. Title: TEE a new window into the spine. Co-Investigator. 2008 IRB # 09-000132 Exempt. Title: Retrospective review of patients who received continous saphenous and continuous popliiteal nerve block for foot and ankle surgery. Co-Investigator. 2009 IRB # 09-001723 Exempt. Title: Transversus abdominus plane block versus conventional pain control modalities for laparoscopic living donor nephrectomies. Co-Principal Investigator. 2009 IRB # 10-001813 Exempt. Title: Performance improvement project and epidural analgeisa. Co-Investigator. 2010 IRB # 13-000118 Exempt. Title: Chart Review of Aspiration of Ultrasound Guided Apiration Lumbar Pseudomeningocele and Epidural Blood Patch. Principal Investigator. 2013

Research Grants Awarded

Active Grants

Industry

| | | |
|--|---|-------------------|
| Program Director / Principal Investigator | Ultrasound Image Fusion. Funded by Medtronic Incorporated | 02/2010 - 12/2010 |
|--|---|-------------------|

Completed Grants**Industry**

| | | |
|--|---|---------|
| Program Director / Principal Investigator | Onyx 1.0. Funded by Phillips Ultrasound, Inc. | 03/2011 |
|--|---|---------|

Mayo Clinic

| | | |
|--|---|-------------------|
| Principal Investigator | Postoperative Nausea and Vomiting (PONV) Associated with Manual Ventilation at Anesthesia Induction. Funded by Mayo Clinic Jacksonville | 09/1996 - 08/1997 |
| Principal Investigator | PONV Associated with Ventilation at Anesthesia Induction - Budget for 2nd Yr. Funded by Mayo Clinic Jacksonville | 09/1997 - 08/1998 |
| Principal Investigator | Pregabalin as an adjunct for postoperative analgesia to achieve opioid sparing in patients undergoing rotator cuff repair. Funded by Mayo Clinic Jacksonville | 07/2006 - 07/2009 |
| Principal Investigator | Use of Pregabalin as an Opioid-sparing Co-analgesic for Total Knee Arthroplasty - TKA Pregabalin. Funded by Mayo Clinic Jacksonville | 08/2006 - 08/2007 |
| Principal Investigator | PVB: Pilot Study to Compare Nerve Stimulation vs. Anatomic Landmark for Hernia Repair. Funded by Mayo Clinic Jacksonville | 01/2008 - 12/2009 |
| Principal Investigator | Paravertebral Blocks Techniques. Funded by Mayo Clinic Jacksonville | 01/2008 - 01/2009 |
| Program Director / Principal Investigator | Paravertebral Blocks Techniques. Funded by Mayo Clinic Jacksonville | 01/2008 - 01/2010 |
| Program Director / Principal Investigator | DNA analysis of a patient with total resistance to local anesthetic. Funded by Clinical Research Subcommittee | 03/2012 - 01/2013 |

Other

| | |
|---|---------|
| Pilot Study: Hemidiaphragm Paresis with Interscalene Brachial Plexus Block. Med Research Institute of Colorado; Colorado Springs, CO | 11/2004 |
|---|---------|

Bibliography

Peer-reviewed Articles

1. **Clendenen SR**, Harper JV, Wharen RE Jr, Guarderas JC. Anaphylactic reaction after cisatracurium. *Anesthesiology*. 1997 Sep; 87 (3):690-2 PMID: 9316977
2. Feinglass NG, **Clendenen SR**, Torp KD, Wang RD, Castello R, Greengrass RA. Real-time three-dimensional ultrasound for continuous popliteal blockade: a case report and image description. *Anesth Analg*. 2007 Jul; 105: (1)272-4. PMID: 17578987 DOI: 10.1213/01.ane.0000265439.02497.a7
3. Robards C, **Clendenen S**, Greengrass R. Intravascular injection during ultrasound-guided axillary block: negative aspiration can be misleading. *Anesth Analg*. 2008 Nov; 107(5):1754-5. PMID: 18931244 DOI: 10.1213/ane.0b013e31818454ec
4. **Clendenen SR**, Kostick DA. Ocular globe luxation under general anesthesia. *Anesth Analg*. 2008 Nov; 107 (5):1630-1. PMID: 18931223 DOI: 10.1213/ane.0b013e3181839262
5. **Clendenen SR**, York JE, Wang RD, Greengrass RA. Three-dimensional ultrasound-assisted popliteal catheter placement revealing aberrant anatomy: implications for block failure. *Acta Anaesthesiol Scand*. 2008 Nov; 52: (10)1429-31. PMID: 19025538 DOI: 10.1111/j.1399-6576.2008.01700.x
6. **Clendenen SR**, Riutort KT, Feinglass NG, Greengrass RA, Brull SJ. Real-time three-dimensional ultrasound for continuous interscalene brachial plexus blockade. *J Anesth*. 2009; 23 (3):466-8 Epub 2009 Aug 14 PMID: 19685139 DOI: 10.1007/s00540-009-0775-y
7. **Clendenen SR**, Riutort K, Ladlie BL, Robards C, Franco CD, Greengrass RA. Real-time three-dimensional ultrasound-assisted axillary plexus block defines soft tissue planes. *Anesth Analg*. 2009 Apr; 108: (4)1347-50. PMID: 19299811 DOI: 10.1213/ane.0b013e3181981e79
8. Robards C, Wang RD, **Clendenen S**, Ladlie B, Greengrass R. Sciatic nerve catheter placement: success with using the Raj approach. *Anesth Analg*. 2009 Sep; 109(3):972-5. PMID: 19690275 DOI: 10.1213/ane.0b013e3181ae0ee7
9. **Clendenen SR**, Wehle MJ, Rodriguez GA, Greengrass RA. Paravertebral block provides significant opioid sparing after hand-assisted laparoscopic nephrectomy: an expanded case report of 30 patients. *J Endourol*. 2009 Dec; 23: (12)1979-83. PMID: 19919257 DOI: 10.1089/end.2009.0095
10. **Clendenen SR**, Robards CB, Greengrass RA. Popliteal catheter placement utilizing ultrasound needle guidance system. *Local Reg Anesth*. 2010; 3:45-8. Epub 2010 Jul 29. PMID: 22915868 PMCID: 3417947
11. **Clendenen SR**, Rajendran S, Kopacz DJ, Greengrass RA, Robards CB, Weinstein DM, Brodersen MP, Ortiguera CJ, Crook J, Logvinov II. Pregabalin as an adjunct to a multimodal analgesic regimen to achieve opioid sparing in arthroscopic rotator cuff repair. *J Rom Anesth Terap Int*. 2010; 17:5-10.
12. **Clendenen SR**, Robards CB, Clendenen NJ, Freidenstein JE, Greengrass RA. Real-time 3-dimensional ultrasound-assisted infraclavicular brachial plexus catheter placement: implications of a new technology. *Anesthesiol Res Pract*. 2010; 2010. Epub 2010 Jun 01. PMID: 20700433 PMCID: 2911615 DOI: 10.1155/2010/208025
13. **Clendenen SR**, Robards CB, Wang RD, Greengrass RA. Case report: continuous interscalene block associated with neck hematoma and postoperative sepsis. *Anesth Analg*. 2010 Apr 1; 110(4):1236-8. Epub 2010 Feb 08. PMID: 20142340 DOI: 10.1213/ANE.0b013e3181cf03b4
14. **Clendenen SR**, Robards CB. The role of ultrasound and regional anesthesia. *Int Anesthesiol Clin*. 2010 Fall; 48(4):13-20. PMID: 20881523 DOI: 10.1097/AIA.0b013e3181f89b81
15. **Clendenen SR**, Robards CB, Greengrass RA, Brull SJ. Complications of peripheral nerve catheter removal at home: case series of five ambulatory interscalene blocks. *Can J Anaesth*. 2011 Jan; 58(1):62-7. PMID: 21061108 DOI: 10.1007/s12630-010-9406-1
16. Riutort KT, Robards CB, **Clendenen SR**, Brull SJ, Greengrass RA. Continuous peripheral nerve blockade may contribute to early diagnosis of postoperative myocardial infarction in high risk patients. *J Rom Anesth Terap Int*. 2011; 18(1):49-52.
17. Robards CB, **Clendenen SR**. In response. *Anesth Analg*. 2011; 113(5):1283. DOI: 10.1213/ANE.0b013e3182312f41

18. Greengrass RA, **Clendenen SR**, Ladlie BL, Crook JE, Logvinov II, Robards CB. Paravertebral blockade for inguinal herniorrhaphy - novice performance of anatomic versus nerve stimulator-guided techniques. *J Rom Anest Terap Int.* 2011; 18(1):5-10.
19. Aniskevich S, **Clendenen SR**, Torp KD. Bilateral transversus abdominis plane block for managing pain after a pancreas transplant. *Exp Clin Transplant.* 2011 Aug; 9(4):277-8. PMID: 21819375
20. Cartwright JA, Aniskevich S, Robards CB, Ramakrishna H, Brull SJ, **Clendenen SR**. Advances in drug safety. *Curr Pharm Des.* 2012; 18(38):6266-83. PMID: 22762466
21. **Clendenen SR**, Pirris S, Robards CB, Leone B, Nottmeier EW. Symptomatic postlaminectomy cerebrospinal fluid leak treated with 4-dimensional ultrasound-guided epidural blood patch. *J Neurosurg Anesthesiol.* 2012 Jul; 24: (3)222-5. PMID: 22614041 DOI: 10.1097/ANA.0b013e31825749ee
22. Clendenen NJ, Robards CB, **Clendenen SR**. Clinical Study: A Standardized Method for 4D Ultrasound-GUided Peripheral Nerve Blockade and Catheter Placement. *BioMed Research International.* 2013.
23. **Clendenen SR**, Rodriguez GA, Greengrass RA, Lundy LB. Regional anesthesia for craniotomy in a patient with inflammatory myopathy. *Jurnalul Roman de Anestezie Terapie Intensiva/Romanian Journal of Anaesthesia and Intensive Care.* 2013; 20(2):134-6.
24. **Clendenen SR**, Whalen JL. Saphenous nerve innervation of the medial ankle. *Local Reg Anesth.* 2013; 6:13-6. PMID: 23630434 PMCID: 3633186 DOI: 10.2147/LRA.S42603
25. **Clendenen SR**, Candler SA, Osborne MD, Palmer SC, Duench S, Glynn L, Ghazi SM. Needle placement for piriformis injection using 3-D imaging. *Pain Physician.* 2013 May-Jun; 16(3):E301-10. PMID: 23703429
26. Robards CB, Porter SB, Logvinov I, **Clendenen SR**. Success of ultrasound guided popliteal sciatic nerve catheters is not influenced by nerve stimulation. *Middle East J Anaesthesiol.* 2013 Jun; 22: (2)179-83. PMID: 24180167
27. Clendenen NJ, Robards CB, **Clendenen SR**. A standardized method for 4D ultrasound-guided peripheral nerve blockade and catheter placement. *Biomed Res Int.* 2014; 2014:920538. PMID: 24575416 PMCID: 3915798 DOI: 10.1155/2014/920538
28. Feinglass NG, **Clendenen SR**, Shine TSJ, Martin AK, Greengrass RA. Real-time two-dimensional and three-dimensional echocardiographic imaging of the thoracic spinal cord: a possible new window into the central neuraxis. *J Clin Monit Comput.* 2014; 29(1):121-5.
29. * Aniskevich S, Taner CB, Perry DK, Robards CB, Porter SB, Thomas CS, Logvinov II, **Clendenen SR**. Ultrasound-guided transversus abdominis plane blocks for patients undergoing laparoscopic hand-assisted nephrectomy: a randomized, placebo-controlled trial. *Local Reg Anesth.* 2014; 7:11-6. PMID: 24860252 PMCID: 4012349 DOI: 10.2147/LRA.S61589
30. Koonce SL, McLaughlin SA, Eck DL, Porter S, Bagaria S, **Clendenen SR**, Robards CB. Breast cancer recurrence in patients receiving epidural and paravertebral anesthesia: a retrospective, case-control study. *Middle East J Anaesthesiol.* 2014 Oct; 22: (6)567-71. PMID: 25669000
31. **Clendenen S**, Greengrass R, Whalen J, O'Connor MI. Infrapatellar saphenous neuralgia after TKA can be improved with ultrasound-guided local treatments. *Clin Orthop Relat Res.* 2015 Jan; 473: (1)119-25. PMID: 25062704 PMCID: 4390940 DOI: 10.1007/s11999-014-3812-6
32. Feinglass NG, **Clendenen SR**, Shine TS, Martin AK, Greengrass RA. Real-time two-dimensional and three-dimensional echocardiographic imaging of the thoracic spinal cord: a possible new window into the central neuraxis. *J Clin Monit Comput.* 2015 Feb; 29 (1):121-5 PMID: 24748550 DOI: 10.1007/s10877-014-9576-4
33. Robards CB, Riutort K, Thomas CS, Porter SB, Wang RD, **Clendenen SR**, Runyan BR, Greengrass RA. Lumbar plexus block surface landmarks as assessed by computed axial tomography in adult patients with scoliosis: a case series. *Can J Anaesth.* 2015 Apr; 62: (4)385-91. PMID: 25572037 DOI: 10.1007/s12630-014-0303-x
34. Vellore AR, Robards CB, **Clendenen SR**. Anesthetic management of femoral fracture repair in a patient with cervical myelopathy, autonomic dysfunction, and difficult airway *Middle East Journal of Anesthesiology.* 2016; 23: (4)483-4.
35. Clendenen N, Cannon AD, Porter S, Robards CB, Parker AS, **Clendenen SR**. Whole-exome sequencing of a family with local anesthetic resistance. *Minerva Anesthesiol.* 2016 May 31; PMID: 27243970

36. Ardon AE, **Clendenen SR**, Porter SB, Robards CB, Greengrass RA. Opioid consumption in total knee arthroplasty patients: a retrospective comparison of adductor canal and femoral nerve continuous infusions in the presence of a sciatic nerve catheter. *J Clin Anesth*. 2016 Jun; 31:19-26. PMID: 27185669 DOI: 10.1016/j.jclinane.2015.12.014
37. Kalava A, **Clendenen S**, McKinney JM, Bojaxhi E, Greengrass RA. Bilateral thoracic paravertebral nerve blocks for placement of percutaneous radiologic gastrostomy in patients with amyotrophic lateral sclerosis: a case series. *Rom J Anaesth Intensive Care*. 2016 Oct; 23 (2):149-153 PMID: 28913488 PMCID: 5505388 DOI: 10.21454/rjaic.7518/232.scl
38. **Clendenen SR**. Tactics for reducing opioids consumption for bariatric surgery. *Minerva Anesthesiol*. 2017 Dec; 83 (12):1233-1235 Epub 2017 Oct 12 PMID: 29027775 DOI: 10.23736/S0375-9393.17.12263-7
39. * Yoon JW, Richter K, Vivas-Buitrago T, Kim EJ, Chen RE, Quinones-Hinojosa A, Diaz-Gomez JL, **Clendenen SR**. Technical Feasibility and Safety of Ultrasound Guided Supraclavicular Nerve Block with Assistance of a Wearable Head-up Display Regional Anesthesia and Pain Medicine. 2018.

Non-Peer-reviewed Articles

1. **Austin M**. Pumped up to fight pain. [article featuring SR Clendenen]. *Denver Post*. 2004 Jan 27:Business Section C.
2. **Clendenen SR**. Ambulatory Anesthesia: What's New? *Medical Education and Research Institute of Colorado Newsletter*. 2004 Spring; 2(2).
3. **Clendenen S**, Feinglass N (interview). Real-time 3-D ultrasound technique used to help physicians numb individual nerves before surgery, speeding patient recovery. *Mayo Clinic News* (<http://www.mayoclinic.org/news2007-jax/4153.html>). 2007 Jul 13.
4. **Clendenen SR**. Atlas of Ultrasound, Nerve Stimulation-Guided Regional Anesthesia, edited by Tsui BCH, Chan VWS, Finucane BT, Grau T, Walji AH, 302 pp, Springer Science, Business Media, Lippincott, New York, 2007 (Book Review). *Anesthesiology*. 2008; 109(4):754.
5. **Clendenen S**, Feinglass N (interviewed). Dimensional anesthesia. Physicians combine pain management and 3-D imaging. *Mayo Magazine*. 2008; Spring:26-7.
6. **Clendenen S**. Ultrasound and Regional Anesthesia. *Mayo Clinic Florida Department of Anesthesiology*. March, 2010.
7. **Clendenen SR**. Three-Dimensional Ultrasound in Anesthesia. *American Society of Anesthesiologists Newsletter*. September 2011; 75:68-69.
8. **Clendenen SR**. 3-Dimensional Ultrasound for Regional Anesthesia. *American Society of Anesthesiologists Newsletter*. November 2011; 75:46-47.

Book Chapters

1. **Clendenen SR**. Pain management for outpatient procedures (Chap 6). In: *Acute Pain*. A. Belai, Editor. Moldova Publishers, Chisinau 2012.
2. **Clendenen SR**. Local anesthetics: mechanism of action. In: Murray MJ. *Faust's Anesthesiology Review*. 4th ed. Philadelphia: Churchill Livingstone; 2013 in press.
3. **Clendenen SR**. Pharmacology: Pharmacokinetics of Neuraxial Drug Administration: Epidural and Subarachnoid. In: *START Prep 03/10/2014*.
4. **Clendenen SR**. Local anesthetic agents: mechanism of action. In: Murray MJ; et al editor. *Faust's anesthesiology review*. Fourth Edition. Philadelphia: Elsevier; 2015. p. 267-9.

Commentaries

1. Porter SB, Robards CB, **Clendenen SR**. Walk down, not up to find the paravertebral space. *Anesth Analg*. 2013 Jul; 117(1):280-1. PMID:23788739 DOI:10.1213/ANE.0b013e318295290b

Abstracts

1. **Clendenen SR**, Shine TSJ, Sitzman BT, Feinglass NG, Marshall KA. Mask ventilation at anesthesia induction does not increase the incidence of PONV. *Anesth Analg*. 1999 Feb; 88(2S):4S.
2. **Clendenen S**, Rajendran S, Bauer P, Elias J. Interscalene brachial plexus block with sparing of the phrenic nerve by interscalene catheter. *Reg Anesth Pain Med*. 2004; 29(2):A29.
3. **Clendenen S**, Feinglass N, Greengrass R. 3-D ultrasound assisted popliteal catheter placement. *Reg Anesth Pain Med*. 2005; 30(3):A80.
4. **Clendenen S**, Feinglass N, Greengrass R. Metalloproteinase inhibition in axial low back pain--oral non-hydroxamate inhibitor treatment. *Reg Anesth Pain Med*. 2006; 31(4):A80.
5. * York J, **Clendenen S**, Greengrass RA. 3-D ultrasound assisted popliteal catheter placement revealing aberrant anatomy-implications for block failure. *Reg Anesth Pain Med*. 2007; 32:A-14.
6. **Clendenen SR**, Clendenen NB, Ladlie B, Greengrass RA. 3-D Ultrasound guided axillary nerve block. *Reg Anesth Pain Med*. 2007; 32:A-28.
7. **Clendenen SR**, Rodriguez G, Brull S, Greengrass RA. Paravertebral blocks for pain control in patients undergoing hand assisted laparoscopic nephrectomy. *Reg Anesth Pain Med*. 2007; 32:A-73.
8. **Clendenen SR**, Whitehead KW, Lewis R, Young PR, Wehle MJ. Paravertebral blocks for pain control in patients undergoing hand-assisted laparoscopic nephrectomy (Abstract #7271). *J Soc Laparoscopic Surg*. 2007; 11(2):S52.
9. * Bietenholz KH, Ladlie BL, **Clendenen SR**, Greengrass RA, Brull SJ. Percutaneous localization of nerves using the Stimuplex pen. *Anesthesiology*. 2007; 107:A1006.
10. **Clendenen SR**, Greengrass R, Riutort KT, Brull SJ. Real-time 3-dimensional ultrasound for continuous interscalene brachial plexus blockade. *Anesthesiology*. 2007; 107:A631.
11. * Riutort K, Runyan B, Greengrass RA, **Clendenen SR**. The lumbar plexus block: predicting the location of landmarks in adult patients with scoliosis of the spine. *Reg Anesth Pain Med*. 2007; 32:A-19.
12. * Emerson B, Feinglass NG, Greengrass RA, **Clendenen SR**. The role of regional anesthesia in evaluating the feasibility of peripheral sympathectomy in a patient with Raynaud's phenomenon. *Reg Anesth Pain Med*. 2007; 32:A-8.
13. Harrison BA, **Clendenen SR**, Shine TS, Clendenen NJ, Aniskevich S. 3-D ultrasound and central venous catheter insertion. *Anesth Analg*. 2008; 106(3S):S-48.
14. Harrison BA, Clendenen NJ, **Clendenen SR**, Blasser K, Greengrass RA. Epidural versus peripheral nerve catheters for analgesia post-total knee arthroplasty. *Anesth Analg*. 2008; 106(3S):S-240.
15. **Clendenen SR**, Feinglass NG, Ladlie BL, Emerson BR, Greengrass RA. Popliteal catheter placement utilizing needle guidance system. *Anesthesiology*. 2008; 109:A633.
16. Mufuka GB, Flipse TR, **Clendenen SR**, Greengrass RA, Wang RD. Potential pacemaker interference from a peripheral nerve stimulatory used for regional anesthesia. *Anesthesiology*. 2008; 109:A1103.
17. Riutort K, Wang RD, **Clendenen SR**, Runyan BR, Greengrass RA. The lumbar plexus block: predicting the location of landmarks in adult patients with scoliosis of the spine. *Reg Anesth Pain Med*. 2008; 32:A-19.
18. Ladlie BL, Howe BL, Clendenen AM, Christopher-Smith KR, **Clendenen SR**, Greengrass RA. Addition of scheduled sciatic boluses for postoperative analgesia following total knee arthroplasty. *Anesth Analg*. 2010; 110:S-461.
19. **Clendenen SR**, Leone BJ. Real-time three dimensional ultrasound-assisted placement of intrathecal catheter: Implications of new technology. *Anesth Analg*. 2010; 110:S-358.
20. Robards C, **Clendenen S**. The Effects of continuous popliteal sciatic and saphenous nerve blocks on arterial blood flow for reconstructive free flap graft to the ankle: A doppler ultrasound study. *Anesth Analg*. 2010; 110:S-471.

Letters

1. **Clendenen SR**, Harrison BA. Single-dose gabapentin does not augment postoperative analgesia in ambulatory arthroscopic shoulder surgery. *Anesth Analg*. 2007 Jul; 105(1):281.
2. **Clendenen SR**, Robards CB. Response to: Naughton R, Mannion S. Staphylococcal infections, not just skin deep. *Anesth Analg*. 2011 Apr;112(4):992-3. *Anesth Analg*. 2011 Apr; 112(4):993. Epub 2011 Mar 23
3. **Clendenen SR**, Robards CB. Staphylococcal infections, not just skin deep response. *Anesth Analg*. 2011 Apr; 112(4):993.
4. Duclas R Jr, Robards CB, Ladie BL, **Clendenen SR**. Tip adhesions complicate infraclavicular catheter removal. *Can J Anaesth*. 2011 May; 58(5):482-3. Epub 2011 Feb 26. PMID:21359616 DOI:10.1007/s12630-011-9473-y
5. * Ardon AE, Greengrass RA, **Clendenen SR**. Diagnosis of post-operative compressive neuropathy aided by continuous adductor canal block. *Pain Med*. 2014 Aug; 15(8):1432-3. Epub 2014 Jun 26. PMID:24965033 DOI:10.1111/pme.12451
6. **Clendenen S**, Greengrass R, Whalen J, O'Connor MI. Reply to the letter to the editor: infrapatellar saphenous neuralgia after TKA can be improved with ultrasound-guided local treatments. *Clin Orthop Relat Res* 2015 May; 473 (5):1845-6 Epub 2015 Feb 20 PMID:25697446 DOI:10.1007/s11999-015-4201-5

Forthcoming

1. **Clendenen S**, O'Connor M, Whalen J, Greengrass R. Infrapatellar Saphenous Neuralgia: An Underappreciated Treatable Cause of Chronic Pain after Total Knee Arthroplasty. (Accepted) 2014.
2. * Golbaba B, Isenhower M, **Clendenen S**. Revision Total Shoulder Arthroplasty with Unrecognized Subclavian Artery Aneurysm Rupture 2014.
3. * Riutort K, Wang RD, **Clendenen SR**, Robards CB, Porter SB, Greengrass RA. The lumbar plexus block: predicting the location of landmarks in adult patients with scoliosis of the spine. 2014.

* Indicates that the primary author was a mentee of this author.

Curriculum Vitae and Bibliography Ahmed A. Nassr, M.B.B.Ch., M.Sc., M.D. 1. PERSONAL INFORMATION. Birth Place 2. present academic rank and position. Research MFM fellow Mayo Graduate School of Medical Education Mayo Clinic, Rochester, Minnesota, USA. Assistant Lecturer of Obstetrics and Gynecology Faculty of Medicine Assiut University, Egypt. Lecturer of Obstetrics and Gynecology Faculty of Medicine Assiut University, Egypt. 3. EDUCATION. Bachelor of Medicine and Surgery (M.B.B.Ch.) Excellent with honors Faculty of Medicine, Assiut University, Egypt. Internship Assiut University Hospital, Assiut University, Egypt. Part III: Format for Bibliography (Please note format for references (Appendix A). Number references consecutively in order in which they were published (oldest first) and separate by category as follows: Original Articles, i.e., reports of original investigations in refereed journals. Proceedings of Meetings, i.e., published full-length articles of meeting presentations for which papers were selected and which contain new data. Reviews, Chapters, and Editorials, i.e., Analytic clinical reviews, comprehensive review articles, editorials, and chapters (specific chapter(s) within other books). B