

Curriculum Vitae

Name: Randall J. Malchow

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Education

1979 - 1983 B.S. from United States Military Academy, West Point, West Point, New York
1983 - 1987 M.D. in Medicine from University of Wisconsin, Madison, WI

Training

06/1984 - 07/1984 Diploma in Officer Basic Course from Officer Basic Course, Army Medical Dept, Ft Knox, KY
1987 - 1988 Certificate in Transitional Internship from Fitzsimons Army Medical Center, Aurora, Colorado
02/1988 - 03/1988 Diploma from Combat Casualty Care Course, Ft Sam Houston, TX
01/1990 - 05/1990 Diploma from Officer Advanced Course, Army Medical Dept, Ft Sam Houston, TX (nonresident)
1991 - 1994 Certificate in Anesthesiology Residency from University of Colorado Health Science Center, Denver, Colorado
1995 - 1996 Diploma from Command and General Staff College, Ft Leavenworth, KS (nonresident)

Licensure and Certification

1988 - Present Certification, ACLS
1988 - 2002 Certification, ATLS
1994 - 2008 Certification, ACLS Instructor of Texas
1995 - Present Boards, American Board of Anesthesiology
1998 - 2009 Medical, Texas Medical License of Texas (J5397)
2008 - Present Medical, Tennessee Medical of Tennessee (43494)

Academic Appointments

07/2000 - 06/2008 Assistant Professor, Anesthesiology, Uniformed Services University Health Science Center (Bethesda, Maryland)
2003 - 2006 Program Director, San Antonio Uniformed Services Health Education Consortium (SAUSHEC) Anesthesiology Residency (San Antonio, Texas)
08/2008 - Present Associate Professor of Clinical Anesthesiology, Vanderbilt University (Nashville, Tennessee)
07/2009 - 11/2012 Director, Regional Anesthesia and Acute Pain Management Fellowship, Anesthesiology, Vanderbilt University Medical Center (Nashville, Tennessee)

Hospital Appointments

1988 - 1989 Staff Physician, 732nd Medical Detachment (Vaihingen Germany)
1996 - 1998 Assistant Chief, Anesthesia Service, Womack Army Medical Center (Fayetteville, North Carolina)

07/1998 - 06/2008	Staff Anesthesiologist, Anesthesiologist, Brooke Army Medical Center (Ft Sam Houston, Texas)
08/1998 - 05/2008	Director, Regional Anes, Anesthesiology, Brooke Army Medical Center (San Antonio, Texas)
2000 - 2002	Assistant Chief, Anesthesia Svc, Brooke Army Medical Center (San Antonio, Texas)
2002 - 2003	Chief, Anesthesia and Operative Service, Brooke Army Medical Center (San Antonio, Texas)
06/2006 - 10/2006	Staff Anesthesiologist, 47th Combat Support Hospital , US Army (MosulIraq)
08/2008 - 04/2013	Medical Director, Orthopedics Anesthesia, Nashville Surgicenter, Vanderbilt University Medical Center (Nashville, Tennessee)
05/2013 - Present	Medical Director, Nashville Surgery Center, Surgical Care Affiliates; Vanderbilt University Medical Center (Nashville, Tennessee)

Other Work Experience

1989 - 1991	Commander, 574th Medical Detachment (StuttgartGermany)
1994 - 1998	Director, Acute and Chronic Pain, Anesthesiology, Womack Army Medical Center (Fayetteville, North Carolina)

Professional Organizations

	American Society of Anesthesiologists
	American Society of Regional Anesthesia
	International Anesthesia Research Society
	Tennessee Society of Anesthesiologists
2010	Society of Cardiovascular Anesthesiologists

Professional Activities

Intramural

1999 - 2003	Transfusion, Pathology, Member
2001 - 2003	Surgical Services, Surgery, Represented Anesthesiology at Dpt of Surgery committee meetings, Member, Chief, Anesthesiology Svc
2003 - 2006	GMEC, Medical Education :ADMINISTRATION, Prog Director, Air Force-Army Anesthesiology Residency, member
01/2009 - 10/2009	Clinical Strategic Planning committee, Anesthesiology, Chair, Annemarie Thompson, Acute Pain representative, Help develop strategic plan for Department
06/2009 - Present	Sports Medicine POD, Anesthesiology, Help lead the outpatient orthopedic anesthesia team to deliver the highest standard of perioperative care possible, Med Director, Orthopedic Anesthesia, member
11/2010 - Present	Quality M&M Practice Improvement, Anesthesiology, Staff Anesthesiologist, member
12/2010 - 07/2012	Interventional Pain Fellowship Multidisciplinary Cmte, Anesthesiology, Member

Extramural

2009 - Present	ASRA Program Directors, ASRA; Hospital for Special Surgery, NY, Member, To coordinate fellowship issues on a national level
03/2010 - Present	Reviewer for Pain Medicine
08/2011 - 10/2011	Congressional Directed Medical Research Program, Defense Medical Research and Development Program, Comprehensive Review of 11 Pain national, multicenter, proposals which were competing for multimillion dollar grants in the area of acute and chronic pain management that could ultimately benefit wounded warriors., Peer Review, Panel Member

Teaching Activities

08/1998 - 05/2008	Anesthesia Department Lecture Series: Various Anesthesiology Lectures, Faculty, Brooke Army Medical Center, San Antonio, Texas.
01/2000 - 2009	Mock Oral Boards, Examiner, Texas, Tennessee

10/2003 - 10/2003	1st Annual Regional Anesthesia Workshop: Regional Anesthesia Workshop, Co-Director, Brooke Army Medical Center, San Antonio, Texas.
01/2005 - 01/2005	2nd Annual Regional Anesthesia Workshop: Regional Anesthesia Workshop, Co-Director, Brooke Army Medical Center, San Antonio, TX
01/2006 - 2006	3rd Annual Regional Anesthesia Workshop: Regional Anesthesia Workshop, Co-Director, Brooke Army Medical Center, San Antonio, TX
03/2007 - 2007	4th Annual Regional Anesthesia Workshop: Regional Anesthesia Workshop, Co-Director, Brooke Army Medical Center, San Antonio, Texas., Directed 2 day comprehensive, Regional Anesthesia Workshop involving cadavers and lectures.
09/2008 - Present	Regional Anes and Acute Pain Course: Regional Anesthesia and Acute Pain Course, Director, Instructor, Vanderbilt University Medical Center, Initiated, organized, prepared all lectures for the monthly "Regional Anesthesia Acute Pain" Course, a comprehensive 9 hour review
01/2009 - 12/2009	Pain Management: Pain Management, Instructor, VUMC
06/2009 - Present	Discussions in Reg Anes Acute Pain Topics: Fellowship Seminars, Director, VUMC, lead bimonthly discussions on scheduled Regional Anesthesia and Acute Pain topics
06/2009 - 10/2012	Journal Club, Reg Anes Acute Pain: Reg Anes Acute Pain Journal Club, Director, VUMC, bimonthly journal club director
03/2010 - 2010	Regional Anesthesia Workshop, Co-Director, Kingston, Jamaica, Co-Director for International Regional Anesthesia Workshop

Research Supervision / Mentorship

2003 - 2006	60 Residents Brooke Army Medical Center, Current Position: As Program Director. (Resident, Education)
06/2009 - Present	Raj Gupta, M.D. Vanderbilt University Medical Center, Current Position: Director, Adult Acute Pain Section. (Faculty, General Mentorship)
06/2009 - 08/2009	Cara Linde University of Tennessee, Current Position: College Student. (High School, General Mentorship)
08/2009 - 09/2010	Stephanie Rasmussen, M.D. Vanderbilt University Medical Center, Current Position: Faculty, Regional Anesthesia and Acute Pain Section. (Post-doc Fellow, Education)
06/2010 - 08/2010	Adair Osman Current Position: College Student. (High School, General Mentorship)
08/2010 - Present	Lisa Jaeger, M.D. Vanderbilt University Medical Center, Current Position: Faculty, Regional Anesthesia and Acute Pain Management. (Post-doc Fellow, Education)
08/2010 - Present	Eric Briggs, M.D. Vanderbilt University Medical Center, Current Position: Faculty, Regional Anesthesia and Acute Pain Management. (Post-doc Fellow, Education)
08/2010 - 08/2011	Mark Lenart, M.D. Vanderbilt University Medical Center, Current Position: Fellow, Regional Anesthesia and Acute Pain Management. (Post-doc Fellow, Education)
08/2011 - 08/2012	Lesley Lirette, M.D. Vanderbilt University Medical Center, Current Position: Fellow, Regional Anesthesia and Acute Pain. (Post-doc Fellow, General Mentorship)
08/2011 - 09/2012	LaKiesha Crawford, M.D. Vanderbilt University Medical Center, Current Position: Fellow, Regional Anesthesia and Acute Pain. (Post-doc Fellow, General Mentorship)

Other Significant Activities

07/2000	Humanitarian Anesthesiology Mission: Worked in San Pedro Sula, Honduras for 2 weeks supporting ENT mission
07/2004	Humanitarian Anesthesiology Mission: Worked in Ascension, Paraguay for 2 weeks supporting ENT mission
2009	Director, VIA Regional Anesthesia Initiative: Organize, lead, supply, manage efforts to increase the use of Regional Anesthesia in the Third World
06/2010	Humanitarian Anesthesiology Mission: Worked at Kijabe Mission Hospital, Kenya for 2 weeks partly to establish Regional Anesthesia center there in East Africa as well as to support Anesthesia/ Critical care mission there.
06/2011	Humanitarian Anesthesiology Mission: Worked at Kijabe Mission Hospital, Kenya for 2 weeks partly to continue Regional Anesthesia center there in East Africa as well as to support Anesthesia/ Critical care mission there.
01/2012	Humanitarian Anesthesiology Mission: Worked at Hospital Loma de Luz in northeast Honduras for Humanitarian Anesthesiology mission for one week
	Humanitarian Anesthesiology Mission: Worked at Hospital Escuela in Tegucigalpa, Honduras for

05/2013 Humanitarian Anesthesiology mission for one week, teaching their Academic Dept Regional Anesthesia techniques, providing care to Total Joint patients, and presenting 5 lectures.

Honors / Awards

08/1981 Airborne Badge, U.S. Army
1989 Army Achievement Medal, U.S. Army Medical Dept, For Meritorious achievement
1990 Expert Field Medical Badge, U.S. Army
1990 Army Achievement Medal, U.S. Army Medical Dept, For exceptional leadership as Commander of the 574th Medical Detachment as the new Health Clinic was opened.
1991 Meritorious Service Medal, U.S. Army Medical Dept, For outstanding meritorious service as Commander of the 574th Medical Detachment, Bad Cannstatt, Germany
1991 Army Achievement Medal, U.S. Army Medical Dept, For exceptional dedication as Commander of Med Detachment.
1997 Humanitarian Service Medal, U.S. Army Medical Dept, For humanitarian disaster relief during Hurricane Fran
1998 Meritorious Service Medal, U.S. Army Medical Dept, For exceptionally meritorious performance as Assistant Chief of Anesthesia and Operative Service
1998 Army Commendation Medal, U.S. Army
2000 Army Achievement Medal, U.S. Army Medical Dept, For meritorious service during humanitarian mission in Honduras
2005 Promoted to Full Colonel, U.S. Army
2006 2006 Program Director of the Year Award, San Antonio Uniformed Services Health Education Consortium (SAUSHEC), While serving as the Program Director, Anesthesiology Residency, San Antonio, Texas, 2003-2006, selected the PD of the Year among >40 programs.
2006 Iraq Campaign Medal, U.S. Army
2007 Military Advanced Regional Anesthesia and Analgesia (MARAA) Recognition, MARAA, Recognized for 7 consecutive years of support to the national, annual MARAA Regional Anesthesia Workshop
2008 Legion of Merit Medal, US Army
06/2009 2009 Golden Apple Teaching Award, Vanderbilt University Medical Center
04/2010 Certificate of Appreciation, Dept of Veterans Affairs, In recognition of outstanding contribution to the State of the Science: Care of the Combat Amputee
08/2010 Chair's Academic Achievement Award, Vanderbilt Dpt of Anesthesiology, Highest level award out of 4 Levels given in Department for Academic Excellence
05/2011 Military Advanced Regional Anes and Analgesia 10 Consecutive Year Award, Military Advanced Regional Anesthesia and Analgesia, Awarded to Distinctive Faculty for Dedicated to 10 Consecutive Years of Service teaching at the Comprehensive Advanced Regional Anesthesia and Analgesia Workshop in Bethesda, MD
08/2011 Excellence Academic Achievement Award, Vanderbilt Dpt of Anesthesiology, 2nd highest level award for Academic Achievement
09/2013 Excellence Academic Achievement Award, Vanderbilt Department of Anesthesiology, 2nd highest type award for Academic Achievement Award in the Vanderbilt Anesthesiology Department

Patents & Copyrights

N/A Malchow Leg Holder. Nathan and Randall Malchow. Positions and holds lower extremity in comfortable, immobile position for lateral approach to sciatic nerve blockade. Possible patent in future.. (Pending)

Publications

Peer Reviewed Publications

Case Reports

1. Bowens C Jr, Briggs ER, **Malchow RJ**. Brachial plexus entrapment of interscalene nerve catheter after uncomplicated ultrasound-guided placement. Pain medicine (Malden, Mass.) 2011 Jul;12(7):1117-20. PMID: 21699651.
2. **Malchow R**, Jaeger L, Lam H. Rectus sheath catheters for continuous analgesia after laparotomy-without postoperative opioid use. Pain medicine (Malden, Mass.) 2011 Jul;12(7):1124-9. PMID: 21692972.
3. Lai T, Jaeger L, Jones B, Kaderbek E, **Malchow R**. Continuous Peripheral Nerve Block Catheter Infections in Combat Related Injuries: A Case Report of Five Soldiers from Operation Enduring Freedom/Operation Iraqi Freedom. Pain Medicine 2011 Nov;12:1676-1681.

Research Articles

1. Thompson W, **Malchow RJ**. Peripheral nerve blocks and anesthesia of the hand. Mil Med 2002 Jun;167(6):478-482. PMID: 12099083.
2. **Malchow, RJ**, Black, IH. The evolution of pain management in the critically ill trauma patient: Emerging concepts from the global war on terrorism. Crit Care Med 2008 Jul;36(7 Suppl):S346-S357. PMID: 18594262.
3. **Malchow RJ**. Ultrasonography for advanced regional anesthesia and acute pain management in a combat environment. U.S. Army Medical Department journal 2009 Dec;64-66. PMID: 20073368.
4. **Malchow, R**. Update in Pain Management in the Amputee. InMotion Magazine; Publication of the Amputee Coalition of America 2010 Sep;20(5):38-40.
5. Lenart M, Wong K, Gupta R, Mercaldo N, Schildcrout J, Michaels D, **Malchow R**. The Impact of Peripheral Nerve Techniques on Hospital Stay Following Major Orthopedic Surgery. Pain Medicine 2012 Apr;13(4):828-834. PMID: DOI: 10.1111/j.1526-4637.2012.01363.x.
6. Rasmussen SB, Saied NN, Bowens C Jr, Mercaldo ND, Schildcrout JS, **Malchow RJ**. Duration of Upper and Lower Extremity Peripheral Nerve Blockade Is Prolonged with Dexamethasone When Added to Ropivacaine: A Retrospective Database Analysis. Pain Medicine 2013 Aug;14(8):1239-1247. PMID: 23755801.

Letters

1. **Malchow R**, Jaeger L. In Response to Dr Cornish. Pain Medicine 2011 Dec;12:1837-1837.
2. **Malchow R**, Crawford L, Newton M. Member Spotlight: Dr Randy Malchow's Prescription for Preventing Burnout-Regional Anesthesia and Acute Pain Management in Kenya. ASRA News 2013 Nov;5-7.

Review Articles

1. **Malchow R**. Morbid Obesity in the Free Standing Ambulatory Surgery Center. Current Reviews in Clinical Anesthesia 2013 Sep.

Non-Peer Reviewed Publications

Abstracts

1. **Malchow, R**; Aikele, S. Spread of Single and Multiple Injections in the Paravertebral Space. European Jnl of Anesthesiology. 2007; 24 (Supp 39) Abstract 8AP3-1:90-90.
2. Badiola, Bowens, Gupta, Canlas, Allen, Jaeger, Briggs, Harvey, Han, Malchow. Comparison of Peripheral Nerve Catheter Depth for a Popliteal Nerve Block using Ultrasound Guidance. 2014 Apr.
3. Canlas, Bowens, Gupta, Allen, Jaeger, Badiola, Corey, Han, Malchow. Color Flow Doppler and Agitated Local Anesthetic Useful to Verify Popliteal Sciatic Nerve Catheter Tip Placement?. 2014 Apr.

Monographs

1. Greenfield G, Jonas W, **Malchow R**. Managing Pain in the Military Setting: Unique Challenges and Practical Strategies. . Editors: Lisa R Rinehart. Baltimore, Maryland, United States: US Medicine Supplement. Sponsored by Med-IQ and American Academy of Pain Management. ; 2009 Dec;1-16.
2. Rhodes L, Groninger H, **Malchow R**. Key Concepts in Pain Management for the Federal Healthcare Professional. Supplement to US Medicine. Editors: Rinehart L. Baltimore, Maryland, United States: Med-IQ; 2011 Nov;1-12.

Books

1. Buckenmaier, C, Bleckner, L. (**Malchow, R** contributing editor.). Military Advanced Regional Anesthesia and Analgesia Handbook. Editors: Malchow, others. Washington, Dist. Of Col., United States: Borden Institute; 2008; 1-135.

Conference Proceedings

1. King, S., **Malchow, R**. Paravertebral Block in Wire-Localized Breast Biopsy: Preoperative and Postoperative Analgesia.. Annual ASA Meeting- Poster Presentation. 2007 Oct;107(Supplement):San Francisco, CA; A2020-

A2020.

Book Chapters

1. **Malchow, R.**, King, K., Chan, B., and Tsao, J. □ Pain Management among Soldiers with Amputations □ . Textbook on Military Medicine: Care of the Combat Amputee.. Editors: Martha K. Lenhart, MD, PhD. Washington, Dist. Of Col., United States: Borden Institute; 2009 Dec;229-263. ISBN: 978-0-16-084077-7.

Presentations

Visiting Professor

1. Univ of Texas Health Science Center; San Antonio, Texas. 2005 Mar 31; Regional Anesthesia in the Cardiothoracic Patient.
2. Malchow, R. Annual Research Seminar. Scott and White Medical Center; Temple, Texas. 2008 Apr 12; Essentials of Peripheral Nerve Blockade.
3. Malchow, R. Kijabe Hospital, Anesthesia Department. World Medical Mission; Kijabe, Kenya. 2010 Jun; Regional Anesthesia and Acute Pain Lectures x 20.
4. Malchow R. Baylor Regional Anesthesia and Analgesia. Baylor Medical Center; Dallas, Texas. 2011 Oct 1; Lower Extremity Anatomy and Blockade.
5. Malchow R. Grand Rounds- Dept of Anesthesiology. University of Kentucky; Lexington, Kentucky. 2012 Sep 26; Amputation Pain Management: Can We Prevent Amputation Pain?.

Presentations at Scientific Meetings

1. North Carolina Occupational Therapy State Conference; 1996 Sep; Treating RSD of the Upper Extremity.
2. Family Practice Conference. 1997 Sep; Low Back Pain-Evaluation and Treatment.
3. Annual European Medical/Surgical Conference. Regional Anesthesia Lectures x 5. US Army; Germany. 2000 Apr; Regional Anesthesia Lectures x 5.
4. Malchow, R. Texas Society of Anesthesiologists Annual Meeting and Conference. Texas Society of Anesthesiologists; San Antonio, Texas. 2004 Sep 12; Central Neuroaxis Blockade in the Ambulatory Patient.
5. Malchow, GEN Franks, Army Surgeon General, WRAMC Commander. State of the Science Seminar, Care of the Amputee Conference.. Walter Reed Army Medical Center; Washington, District of Columbia. 2010 Apr 16; Pain Management among Soldiers with Amputees.
6. Malchow, R. National VA Amputation Conference. Veteran's Affairs; Richmond, Virginia. 2010 Aug 19; Optimizing Amputation Pain Management.
7. Malchow R. Current Topics in Anesthesia. Northwest Anesthesia Seminars; Memphis, Tennessee. 2012 Mar 8; Ultrasound Regional Anesthesia: Do We Need this Skill?.
8. Malchow R. Current Topics in Anesthesia. Northwest Anesthesia Seminars; Memphis, Tennessee. 2012 Mar 8; Risks and Benefits of Regional Anesthesia.
9. Malchow R. Current Topics in Anesthesia. Northwest Anesthesia Seminars; Memphis, Tennessee. 2012 Mar 8; Local Anesthetics and Adjuncts.
10. Malchow R. Current Topics in Anesthesia. Northwest Anesthesia Seminars; Memphis, Tennessee. 2012 Mar 9; Regional Anesthesia in the Cardiothoracic Patient.
11. Malchow R. Current Topics in Anesthesia. Northwest Anesthesia Seminars; Memphis, Tennessee. 2012 Mar 9; Optimizing Acute Pain Management.
12. Malchow R. Current Topics in Anesthesia. Northwest Anesthesia Seminars; Memphis, Tennessee. 2012 Mar 9; Regional Anesthesia: Past, Present, and Future.
13. Malchow R. SAMBA 28th Annual Meeting. SAMBA: Society for Ambulatory Anesthesia; Scottsdale, Arizona. 2013 Apr 12; Morbid Obesity in the Ambulatory Surgicenter, PBLD.
14. Malchow R. SAMBA 28th Annual Meeting. SAMBA: Society for Ambulatory Anesthesia; Scottsdale, Arizona. 2013 Apr 13; Preventing Burnout Through Humanitarian Missions.
15. Malchow R. SAMBA 28th Annual Meeting. SAMBA: Society for Ambulatory Anesthesia; Scottsdale, Arizona. 2013 Apr 13; Real World Cases.

Workshop

1. Comprehensive Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2002 Apr; Head and Neck Blocks.
2. Malchow, R. Regional Anesthesia Workshop. Uniformed Services University Health Sciences Center; Washington, District of Columbia. 2002 Oct; Upper and Lower Extremity Blocks.
3. Comprehensive Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2003 May; Head and Neck Blocks.

4. 1st Annual Regional Anesthesia Workshop. US Army; San Antonio, Texas. 2003 Oct; Continuous Acute Pain Catheters.
5. 3rd Annual Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2004 May; Head and Neck Blocks.
6. 2nd Annual Regional Anesthesia Workshop. US Army; San Antonio, Texas. 2005 Jan; Proximal Upper Extremity Blockade.
7. 4th Annual Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2005 May; Head and Neck Blocks.
8. Texas Society of Anesthesiologists Annual Meeting and Conference. Texas Society of Anesthesiologists; San Antonio, Texas. 2005 Sep; Interscalene Block.
9. 3rd Annual Regional Anesthesia Workshop. US Army; San Antonio, Texas. 2006 Jan; Paravertebral Blockade, Thoracic Epidural.
10. 5th Annual Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2006 May; Head and Neck Blocks.
11. 7th Annual South Asian Confederation of Anesthesiologists. South Asian Confederation of Anesthesiologists; Kathmandu, Nepal. 2007 Feb; Lower Extremity Anatomy and Blockade Station.
12. 4th Annual Regional Anesthesia Workshop. Brooke Army Medical Center; San Antonio, Texas. 2007 Mar; Head and Neck Station.
13. 6th Annual Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2007 May; Head and Neck Blocks.
14. Biannual Regional Anesthesia Workshop. MD Anderson Cancer Center; Houston, Texas. 2007 Jul; Ultrasound Station.
15. Texas Society of Anesthesiologists Annual Meeting and Conference. Texas Society of Anesthesiologists; San Antonio, Texas. 2007 Sep; Interscalene Block.
16. Malchow, others. 7th Annual Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2008 Apr; Head and Neck Blocks.
17. Malchow, others. 8th Annual Regional Anesthesia Workshop. Uniformed Services University of Health Sciences; Washington, District of Columbia. 2009 Apr; Head and Neck Blocks.
18. 7th Biannual Ultrasound Guided Regional Anesthesia Workshop. University of Texas Health Sciences Center; Houston, Texas. 2009 Jul; Ultrasound Guided Upper and Lower Extremity Blocks.
19. Malchow, R, others. Univ of West Indies Regional Anesthesia Conference/ Workshop. University of West Indies; Jamaica, Jamaica. 2010 Mar 13; Ultrasound: Upper and Lower Extremity.
20. Malchow, Buckenmaier, Greengrass, Thompson, Thomas, Gephardt, others. 9th Annual Comprehensive Advanced Regional Anesthesia Workshop/ Conference. Uniformed Services University Health Sciences Center; Bethesda, Maryland. 2010 May 1; Head and Neck Blocks.
21. Malchow, R. NYSORA Regional Anesthesia Workshop. NYSORA; Nashville, Tennessee. 2010 Sep 25; Lower Extremity Anatomy and Blockade Station.
22. Malchow, R. 10th Biannual Ultrasound Guided Regional Anesthesia Workshop. University of Texas Health Science Center; Houston, Texas. 2011 Jan 30; TAP, Rectus Sheath, Centroneuroaxis Ultrasound Guided Advanced Blocks.
23. Malchow, R. 10th Annual Comprehensive Regional Anesthesia Workshop. Uniformed Services University Health Sciences Center; Bethesda, Maryland. 2011 Apr 30; Head and Neck Blocks.
24. Malchow. 12th Bi-annual Ultrasound Guided Regional Anesthesia Workshop. University of Texas Medical Center; Houston, Texas. 2012 Jan 29; Advanced Regional Anesthesia Techniques.
25. Malchow R, et al. Northwest Seminar Anesthesia Update. Northwest Anesthesia Seminars; Destin, Florida. 2012 May 2; Ultrasound Guided Regional Anesthesia.
26. Malchow R. Ultrasound Guided Regional Anesthesia Workshop. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 3; Review of Upper Extremity Anatomy and Blockade.
27. Malchow R. Ultrasound Guided Regional Anesthesia Workshop. Northwest Anesthesia Seminar; Nashville, Tennessee. 2012 Oct 3; Review of Lower Extremity Anatomy and Blockade.

Invited Presentation - Local

1. Malchow, R. Quarterly Meeting Update in Perioperative Nursing. Tennessee Society of Perioperative Nursing Society.; Nashville, Tennessee. 2009 Oct; Regional Anesthesia and Acute Pain Control: What every Perioperative Nurse Needs to Know.
2. Malchow, R. Southeastern U.S. Anesthesia Technician Conference. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Apr 24; What Every Technician Should Know about Regional Anesthesia.
3. Malchow, R. Annual Update in Perioperative Nursing. Middle Tennessee Society of Perioperative Nursing; Nashville, Tennessee. 2010 May 15; Opioid Induced Hyperalgesia. May 15, 2010.
4. Malchow, R. Stallworth Rehabilitation Hospital; Nashville, Tennessee. 2010 Jul 22; Continuous Peripheral Nerve Blocks.

5. Malchow, R. Nashville Surgery Center Monthly Nursing Inservice. Surgical Care Associates; Nashville, Tennessee. 2011 May 13; Regional Anesthesia.

Invited Presentation - Regional

1. Malchow, others. Combat Trauma Management Course. US Army; San Antonio, Texas. 2005 Oct; Moderator and Speaker- Review of Regional Anesthesia for the Brachial Plexus.
2. Annual CRNA Conference. US Army; San Antonio, Texas. 2007 Apr; Bridging Regional Anesthesia with the Past and the Present.
3. Annual CRNA Conference. US Army; San Antonio, Texas. 2007 Apr; Risks and Benefits of Regional Anesthesia.
4. Malchow R. Ultrasound Guided Regional Anesthesia Workshop. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 3; Ultrasound Guided Blocks: Knobology and Principles.
5. Malchow R. Ultrasound Guided Regional Anesthesia Workshop. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 3; Ultrasound Guided Vascular Access and Billing for Ultrasound Guided Blocks.
6. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 4; Regional Anesthesia - Risks and Benefits.
7. Malchow R. Topics in Anesthesia. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 4; Regional Anesthesia in the Cardiothoracic Patient.
8. Malchow R. Topics in Anesthesia. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 4; Centroneuroaxis Blockade in the Ambulatory Patient.
9. Malchow R. Topics in Anesthesia. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 5; Optimizing Acute Pain Management.
10. Malchow R. Topics in Anesthesia. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 6; Anesthesia and Analgesia for Total Knee Arthroplasty and Total Hip Arthroplasty.

Invited Presentation - National

1. Biannual Regional Anesthesia Workshop and Conference. MD Anderson Cancer Center; Houston, Texas. 2007 Jul; History of Regional Anesthesia.
2. Malchow, R. Biannual Regional Anesthesia Workshop and Conference. MD Anderson Cancer Center; Houston, Texas. 2007 Jul; Optimizing Acute Pain Management.
3. Annual Army Trauma Symposium. US Army; San Antonio, Texas. 2007 Aug; Multimodal Pain Management in the Amputee.
4. Army Conference on Care of the Amputee.. US Army; San Antonio, Texas. 2007 Sep; Pain Management in the Amputee.
5. Malchow R. Baylor Regional Anesthesia Review. Baylor Medical Center; Dallas, Texas. 2011 Oct 1; Risks and Benefits of Regional Anesthesia and Analgesia.
6. Malchow, Gupta, Grasu. 12th Bi-annual Ultrasound Guided Regional Anesthesia Workshop. University of Texas Medical Center; Houston, Texas. 2012 Jan 28; Review of Upper Extremity Anatomy and Blockade.
7. Malchow R. Northwest Seminar Anesthesia Update. Northwest Anesthesia Seminars; Destin, Florida. 2012 May 3; Ultrasound Guided Regional Anesthesia- Do We Need this Skill?.
8. Malchow R. Northwest Seminar Anesthesia Update. Northwest Anesthesia Seminars; Destin, Florida. 2012 May 3; Regional Anesthesia - Risks and Benefits.
9. Malchow R. Northwest Seminar Anesthesia Update. Northwest Anesthesia Seminars; Destin, Florida. 2012 May 3; Local Anesthesia and Adjuncts.
10. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Jackson Hole, Wyoming. 2013 Feb 26; Regional Anesthesia in the Cardiothoracic Patient.
11. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Jackson Hole, Wyoming. 2013 Feb 26; Ultrasound Guided Blocks: Knobology and Principles.
12. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Jackson Hole, Wyoming. 2013 Feb 26; What's Different for Regional Anesthesia.
13. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Jackson Hole, Wyoming. 2013 Feb 27; Anesthesia and Analgesia for Total Knee Arthroplasty and Total Hip Arthroplasty.
14. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Jackson Hole, Wyoming. 2013 Feb 27; Bridging Past, Present, and Future of Regional Anesthesia.
15. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Jackson Hole, Wyoming. 2013 Feb 28; Ketamine and Multimodal Analgesia.
16. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Jackson Hole, Wyoming. 2013 Mar 1; Regional Anesthesia - Risks and Benefits.
17. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 25; Review of Upper Extremity Anatomy and Blockade.
18. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 25;

Regional Anesthesia - Risks and Benefits.

19. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 25; Ultrasound Guided Blocks- Do We Need this Skill?.
20. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 28; Optimizing Acute Pain Management.
21. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 28; Local Anesthetics and Adjuncts.
22. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 28; Head and Neck - Anatomy and Blockade.
23. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 28; NSAIDs and Anticonvulsants in Acute Pain Management.
24. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 30; Ketamine and Multimodal Analgesia.
25. Malchow R. Anesthesia Update. Northwest Anesthesia Seminar; Caribbean Cruise, Jamaica. 2013 Mar 30; Perioperative Management of the Chronic Pain Patient.
26. Malchow R. Journal Club. Hospital for Special Surgery; New York, New York. 2013 Apr 26; Journal Club: Amputation Pain Management.
27. Malchow R. Anesthesia Update. Northwest Anesthesia Seminars; Jackson Hole, Wyoming. 2014 Feb 24; Optimizing Perioperative Pain Management with Advanced Regional Anesthesia.
28. Malchow R. Anesthesia Update. Northwest Anesthesia Seminars; Jackson Hole, Wyoming. 2014 Feb 25; NSAIDs and Anticonvulsants.
29. Malchow R. Anesthesia Update. Northwest Anesthesia Seminars; Jackson Hole, Wyoming. 2014 Feb 25; Acute Pain Management in Chronic Pain Patient.
30. Malchow R. Anesthesia Update. Northwest Anesthesia Seminars; Jackson Hole, Wyoming. 2014 Feb 26; Ketamine and Multimodal Analgesia.
31. Malchow R. Anesthesia Update. Northwest Anesthesia Seminars; Jackson Hole, Wyoming. 2014 Feb 27; Ultrasound Guided Upper Extremity Blockade.
32. Malchow R. Anesthesia Update. Northwest Anesthesia Seminars; Jackson Hole, Wyoming. 2014 Feb 27; Ultrasound Guided Lower Extremity Blockade.
33. Malchow R. Anesthesia Update. Northwest Anesthesia Seminars; Jackson Hole, Wyoming. 2014 Feb 28; History of Regional Anesthesia.

Invited Presentation - International

1. Malchow, R. 7th Annual South Asian Confederation of Anesthesiologists. South Asian Confederation of Anesthesiologists; Kathmandu, Nepal. 2007 Feb; History of Regional Anesthesia.
2. Malchow, R. Univ of West Indies Regional Anesthesia Conference/ Workshop. University of West Indies; Kingston, Jamaica. 2010 Mar 13; Regional Anesthesia: Past, Present, and Future.

Invited Presentation - Other

1. Malchow. NYSORA Regional Anesthesia Workshop. NYSORA; New York, New York. 2010 Sep 25; Upper Extremity Anatomy and Blockade; Ultrasound Guided.
2. Malchow. NYSORA Regional Anesthesia Workshop. NYSORA; New York, New York. 2010 Sep 25; Sciatic and Popliteal Anatomy and Blockade: Ultrasound Guided.
3. Malchow, Daniels, Popat. 10th Biannual Ultrasound Guided Regional Anesthesia Workshop. University of Texas Health Science Center; Houston, Texas. 2011 Jan 29; Lower Extremity Anatomy and Blockade Lecture.

Internal Grand Rounds

1. Malchow, R. Pain Management Rounds. 47th Combat Support Hospital; Mosul, Iraq. 2006 Jul; Acute Pain Management in Deployed Hospitals.
2. ICU Conference. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Jan; Ketamine and Multimodal Analgesia.
3. Annual Nurse Practitioner Conference. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Jan; Amputation Pain Management.
4. Malchow, R. Grand Rounds, Orthopedics Department. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 May 6; Optimizing Perioperative Pain Management.
5. Malchow R. Vanderbilt Anesthesiology Grand Rounds. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jun 29; Amputation Pain: Can We Prevent Phantom Limb Pain?.
6. Malchow R. Topics in Anesthesia. Northwest Anesthesia Seminar; Gatlinburg, Tennessee. 2012 Oct 6; Ketamine and Beyond.

External Grand Rounds

1. Malchow, R. Grand Rounds, Surgery Department. Brooke Army Medical Center; San Antonio, Texas. 2002 Jan; Regional Anesthesia Update in General Surgery.
2. Grand Rounds, Obstetrics and Gynecology Department. Brooke Army Medical Center; San Antonio, Texas. 2002 Apr; Regional Anesthesia Update.
3. Orthopedic Department Lecture. Brooke Army Medical Center, Orthopedics Department; San Antonio, Texas. 2004 May; Regional Anesthesia Update.
4. Malchow, R. Grand Rounds, Orthopedics Department. Brooke Army Medical Center; San Antonio, Texas. 2005 Sep; Regional Anesthesia Update.
5. Malchow R. Grand Rounds- Dept of Anesthesiology. Hospital for Special Surgery; New York, New York. 2013 Apr 25; Amputation Pain Management: Can We Prevent Amputation Pain?.

Panel Presentation

1. Malchow, R. 2009 Annual ASA Conference. American Society of Anesthesiology; New Orleans, Louisiana. 2009 Oct 18; Limiting the Impact of Trauma through Acute Pain Management.

Other

1. Lai, Malchow. 2009 ASA Annual Meeting. ASA; New Orleans, Louisiana. 2009 Oct 18; Case Series of Regional Analgesia Catheter Infections.
2. Nelson D, Card E, Jeskey M, Lee J, Malchow R, Michaels D, Sanders N, Berry J. National Teaching Institute and Critical Care Exposition.. National Teaching Institute; Washington, District of Columbia. 2010 May 15; Hyperalgesia: A Little Known condition in Pain Management and Pain Control.
3. Hobgood, Bowens, Malchow. 2010 Annual ASA Meeting. ASA; San Diego, California. 2010 Oct 17; Incarcerated Interscalene Nerve Catheter after Uncomplicated Ultrasound Guidance.
4. Malchow, R. Pain Management Grand Rounds. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Dec 14; Optimizing Amputation Pain Management.
5. Malchow, M; Lenart, M; Wong, K; Gupta, R. Production and Operation Management Meeting. Reno, Nevada. 2011 May; Near-OR Perioperative Interventions to Decrease Hospital Length of Stay.
6. Malchow R. Acute Pain Journal Club. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Nov 17; Review of National Regional Anes and Acute Pain PreTest.
7. Malchow R; Huntoon M. Acute Pain Journal Club. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jan 24; Intrathecal Therapy.
8. Malchow R. Acute Pain Journal Club. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Mar 27; Analgesia for Total Hip Arthroplasty.
9. Lirette, Lesley. SAMBA Annual Meeting. Vanderbilt University Medical Center; Miami, Florida. 2012 May 3; Comparing Efficiency in Delivering Regional Anesthesia in a "Teaching Model" style ambulatory surgery center vs a "Non-trainee" ambulatory surgery center.

University Talk

1. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 3; Multimodal Analgesia.
2. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 3; Upper Extremity Anatomy and Blocks.
3. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 3; Lower Extremity Anatomy and Blockade Lecture.
4. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 3; Ultrasound Guided Blocks.
5. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 19; Local Anesthetics.
6. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 31; Upper Extremity Anatomy and Blocks.
7. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 31; Ultrasound Guided Blocks.
8. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Aug 31; Lower Extremity Anatomy and Blockade Lecture.
9. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Sep 9; Pain Pathways.
10. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Sep 28; Regional Anesthesia Lectures x 4.
11. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Oct 7; Opiates.

12. Malchow, R. Intern Lecture Series. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Oct 14; Perioperative Pain Management.
13. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Oct 26; Multimodal Analgesia.
14. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Oct 26; Local Anesthetics and Adjuncts.
15. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Oct 26; Upper Extremity Anatomy and Blocks.
16. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Oct 26; Lower Extremity Anatomy and Blockade Lecture.
17. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Oct 26; Chest, Abdomen, and Neuroaxis.
18. Malchow, R, others. Regional Anesthesia and Acute Pain Journal Club. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Nov 4; Paravertebral Blockade: Anatomy, Techniques, Indications.
19. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Nov 16; NSAIDs and Anticonvulsants.
20. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Nov 23; Regional Anesthesia Lectures x 5.
21. Malchow, R, others. Regional Anesthesia and Acute Pain Journal Club. Vanderbilt University Medical Center; Nashville, Tennessee. 2010 Dec 9; Perioperative Pain Management in the Chronic Pain Patient.
22. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Jan 13; Multimodal Analgesia.
23. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Jan 18; Local Anesthetics and Adjuncts.
24. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Jan 18; Chest, Abdomen, and Neuroaxis.
25. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Jan 18; Upper Extremity Anatomy and Blocks.
26. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Jan 18; Lower Extremity Anatomy and Blockade Lecture.
27. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Feb 15; Ultrasound Guided Blocks.
28. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Feb 17; Spinals and Epidural Anesthesia, Outpatients.
29. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Mar 3; Spinals and Epidural Anesthesia, Part II.
30. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Mar 15; Overview of Regional and Acute Pain Rotations.
31. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Mar 15; Multimodal Analgesia.
32. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Mar 15; Ultrasound Guided Blocks.
33. Malchow, R, others. Regional Anesthesia and Acute Pain Journal Club. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Mar 17; Postoperative Analgesia for Total Knee Arthroplasty.
34. Malchow, R. Intern Lecture Series. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Apr 5; Perioperative Pain Management.
35. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Apr 12; Risks and Benefits, Regional Anesthesia.
36. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Apr 12; Local Anesthetics and Adjuncts.
37. Malchow, R. Monthly Regional Anesthesia and Acute Pain Management Meeting. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 Apr 15; Spinals and Epidural Anesthesia, Part III, Outcomes and Anticoagulation.
38. Malchow, R. Intern Lecture Series. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 May 3; Perioperative Pain Management.
39. Malchow, R. Regional Anesthesia and Acute Pain Management Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2011 May 10; Block Room, Equipment, Supplies, Nerve Stimulation.
40. Malchow R. Regional Rotation Didactics. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Apr 10; Regional Anesthesia for Chest and Abdomen.
41. Malchow R. Regional Rotation Didactics. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Apr

- 10; Review of Upper Extremity Anatomy and Blockade.
42. Malchow R. Regional Rotation Didactics. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jun 5; Review of Lower Extremity Anatomy and Blockade.
43. Malchow R. Regional Rotation Didactics. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jun 5; Review of Upper Extremity Anatomy and Blockade.
44. Malchow R. Regional Rotation Didactics. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jun 5; Regional Anesthesia for Chest and Abdomen.
45. Malchow R. Regional Rotation Didactics. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jun 5; Regional Anesthesia - Risks and Benefits.
46. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jul 31; Local Anesthetics and Adjuncts.
47. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jul 31; Multimodal Analgesia.
48. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Jul 31; Block Room, Equipment, Supplies, and Nerve Stimulation.
49. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Oct 23; Regional Anesthesia - Risks and Benefits.
50. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Oct 23; Review of Upper Extremity Anatomy and Blockade.
51. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2012 Oct 23; Review of Lower Extremity Anatomy and Blockade.
52. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Jan 15; Regional Anesthesia - Risks and Benefits.
53. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Jan 15; Review of Upper Extremity Anatomy and Blockade.
54. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Jan 15; Regional Anesthesia for Chest and Abdomen.
55. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Mar 12; Regional Anesthesia for Chest and Abdomen.
56. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Mar 12; Review of Lower Extremity Anatomy and Blockade.
57. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Mar 12; Regional Anesthesia - Risks and Benefits.
58. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Mar 12; Review of Upper Extremity Anatomy and Blockade.
59. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 May 7; Review of Lower Extremity Anatomy and Blockade.
60. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 May 7; Regional Anesthesia for Chest and Abdomen.
61. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 May 7; Review of Upper Extremity Anatomy and Blockade.
62. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 May 7; Ultrasound Guided Blocks.
63. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Aug 27; Regional Anesthesia - Risks and Benefits.
64. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Aug 27; Regional Anesthesia for Chest and Abdomen.
65. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Aug 27; Review of Upper Extremity Anatomy and Blockade.
66. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Aug 27; Review of Lower Extremity Anatomy and Blockade.
67. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Nov 19; Review of Lower Extremity Anatomy and Blockade.
68. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2013 Nov 19; Multimodal Analgesia.
69. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2014 Jan 14; Regional Anesthesia for Chest and Abdomen.
70. Malchow R. Regional Anesthesia and Acute Pain Course. Vanderbilt University Medical Center; Nashville, Tennessee. 2014 Jan 14; Review of Upper Extremity Anatomy and Blockade.