# William J. Sullivan, MD

#### **Current Academic Positions:**

Professor and Vice-Chair Residency Program Director Department of Physical Medicine and Rehabilitation Vanderbilt University Medical Center 2201 Children's Way, Suite 1318 Nashville, TN 37212 Phone: 615-936-5502 Fax: 615-322-7454 E-mail: william.sullivan.2@vumc.org

#### **Current Professional Position:**

Service Chief, Physical Medicine and Rehabilitation VA Tennessee Valley Healthcare System Nashville, TN 37212 E-mail: william.sullivan7@va.gov

Place of Birth: Detroit, Michigan Citizenship: United States of America

## **Education**

#### University:

- Michigan State University, East Lansing, Michigan Bachelor of Science, *Magna cum laude*, Biology, June 1988
- Emory University School of Medicine, Atlanta, Georgia Doctor of Medicine, May 1993

#### **Postgraduate Training:**

- McGaw Medical Center of Northwestern University; Internship in Internal Medicine Northwestern Memorial Hospital, Chicago, Illinois, July 1993-June 1994
- McGaw Medical Center of Northwestern University; Residency in Physical Medicine and Rehabilitation, Rehabilitation Institute of Chicago, Chicago, Illinois, July 1994-June 1997

#### **Previous Academic Appointments**

- Northwestern University School of Medicine, Department of Physical Medicine and Rehabilitation, Chicago, IL: Clinical Instructor 1997-2002; Clinical Assistant Professor 2002-2004
- University of Kansas School of Medicine, Department of Rehabilitation Medicine, Kansas City, KS: Clinical Assistant Professor 1999-2000
- Loyola University School of Medicine, Department of Orthopaedics and Rehabilitation, Maywood, IL: Lecturer (Adjunct Appointment) 2000-2004
- University of Colorado School of Medicine, Department of Physical Medicine and Rehabilitation, Aurora, CO: Assistant Professor 2004-2007, Associate Professor 2007-2019

#### Licensure and Board Certification

#### Medical License

1997-2004	State of Illinois Department of Professional Regulation (inactive)
1999-2001	State of Kansas Board of Healing Arts (inactive)
1999-2002	State of Missouri Board of Registration for the Healing Arts (inactive)
2004-2021	The Colorado State Board of Medical Examiners, 42285 (inactive)
2019-present	Tennessee Board of Medical Examiners, 59130

### **Board Certification**

1994	National Board of Medical Examiners, Diplomat Number 432683
1998	Fellow American Board of Physical Medicine and Rehabilitation,
	Diplomat Certificate Number 5835
2004-2014	Subspecialty of Pain Medicine, American Board of Physical Medicine and Rehabilitation,
	Certificate Number 858
2008-2028	American Board of Physical Medicine and Rehabilitation,
	Maintenance of Certification Examination passed 2008, 2018
2010-2020	Sports Medicine Subspecialty Certification, American Board of Physical Medicine and
	Rehabilitation, American Board of Family Medicine
2019-2023	The National Board of Physicians and Surgeons: Physical Medicine and Rehabilitation,
	Pain Medicine and Sports Medicine, Certificate No. 007263

#### **Professional Organizations**

American Academy of Physical Medicine and Rehabilitation (AAPM&R) and its council Physiatric Association of Spine, Sports, and Occupational Rehabilitation (PASSOR) 1994-present Active Member AAPM&R 1996-2009 Active Member PASSOR (reintegrated into AAPM&R 2009) Association of Academic Physiatrists 1994-present Member American Congress of Rehabilitation Medicine 1994-2000 Member Spine Intervention Society (previously International Spinal Intervention Society) 1997-2014 Active Member 2021-present Active Member American College of Sports Medicine 1997-2013 Active Member American Board of Physical Medicine and Rehabilitation 1998-2000 Maintenance of Certification Board Examination Question Writer North American Spine Society 1999-present Active Member, additional committee and leadership responsibilities listed below 2019-2020 President American Medical Association 2011-2015 Active Member 2010-2013 AMA/RUC Advisor North American Spine Society Saudi Spine Society 2017-present Honorary Member

# **Professional Activities**

## **Departmental Committees**

- 1998Subcommittee on Cross-unit Relations, Department of Physical Medicine and Rehabilitation<br/>Northwestern University School of Medicine, Chicago, Illinois
- 1998-1999Residency Interview and Selection Committee, Rehabilitation Institute of Chicago<br/>Department of Physical Medicine and Rehabilitation

Northwestern University School of Medicine, Chicago, Illinois

- 2004-2019 Residency Selection Committee, Department of Physical Medicine and Rehabilitation University of Colorado Anschutz Medical Campus
- 2004-2019 Medical Education Committee, Department of Physical Medicine and Rehabilitation University of Colorado Anschutz Medical Campus
- 2014-2019 Promotions Committee, Co-Chair 2017-2019, Department of Physical Medicine and Rehabilitation, University of Colorado Anschutz Medical Campus
- 2017-2019 Residency Program Director Physical Medicine and Rehabilitation
- 2018-2019 Physical Therapy Head Search Committee, University of Colorado Department of Physical Medicine and Rehabilitation

## University of Colorado School of Medicine Committees

- 2004-2019 Clinical Block Directors Committee
- 2004-2019 Director, Musculoskeletal Block, Required 3<sup>rd</sup> year Medical Student Rotation
- 2004-2009 Human Body Block Committee
- 2010-2012 Faculty Senate, Representing Department of Physical Medicine and Rehabilitation

## Vanderbilt University Medical Center Committees

- 2019-present Program Directors Committee
- 2019-present Vice-Chairs for Education Committee

## **Other Hospital Committees**

1994-1997	Medical Care Committee, Rehabilitation Institute of Chicago
1995-1996	Ethics Committee, Rehabilitation Institute of Chicago
1997-1999	Physicians Users Group Committee, Rehabilitation Institute of Chicago
1998-1999	Chair, Lab and X-ray Committee, Rehabilitation Institute of Chicago
1999	Vice-Chief of Staff, Rehabilitation Institute of Chicago
2000	Medical Executive Committee, The Rehabilitation Institute, Kansas City, Missouri
2000-2001	Spine Steering Committee, Loyola University Medical Center
2000-2004	Oversight Committee, Rehabilitation Institute of Chicago and Loyola University
	Partnership in Rehabilitation, Maywood, Illinois
2002-2003	Physicians Compensation Committee, Rehabilitation Institute of Chicago
2006-2010	Touchworks User Group, University of Colorado Hospital
2008-2012	Practice Operations Management Committee, University of Colorado Hospital
2012-2019	Clinical Executive Committee, Eastern Colorado VA Health Care System
2012-2019	Professional Standards Board, Eastern Colorado VA Health Care System
2015-2019	Geriatric Research Education and Clinical Center (GRECC) Advisory Committee, Eastern
	Colorado VA Health Care System
2016-2019	Co-Chair, Consult Committee, Eastern Colorado VA Health Care System
2020-present	Pain Management Committee, VA Tennessee Valley Healthcare System
2020-present	Continuous Readiness Committee, VA Tennessee Valley Healthcare System
2021-present	Rehabilitation/Geriatrics Extended Care ICC Co-chair,
	VA Tennessee Valley Healthcare System

## **National Committees**

1999-2006	American Dental Association, National Headquarters
	Ergonomics and Disability Support Advisory Committee, Chicago, Illinois
2007-2008	Physiatric Association of Spine, Sports, and Occupational Rehabilitation
	(PASSOR), Nominating Committee
2007-2008	Physiatric Association of Spine, Sports, and Occupational Rehabilitation (PASSOR),
	Medical Education Committee
2007-2010	North American Spine Society, Membership Committee
2007-2014	North American Spine Society, Medical Coding Committee
	Vice-Chair, 2007-2010; Co-Chair 2010-2014
2007-2013	North American Spine Society, SpineLine Editorial Board
2008-2011	American Academy of Physical Medicine and Rehabilitation (AAPM&R),
	Medical Practice Committee, Coding and Billing Workshop Course Director
2008-2009	American Academy of Physical Medicine and Rehabilitation (AAPM&R),
	Advisor: AMA/Relative Value System Update Committee (RUC)
2009-2014	North American Spine Society (NASS), Alternated Advisor and Advisor: AMA/Relative
	Value Unit Update Committee (RUC)
2009-2012	North American Spine Society (NASS) Annual Meeting Program Committee Co-Chair
2010-2013	North American Spine Society (NASS) Registry Committee
2011-2013	American Academy of Physical Medicine and Rehabilitation
	Committee Chair, Reimbursement and Policy Review Committee
2012-2014	North American Spine Society (NASS) Nominating Committee
2012	North American Spine Society (NASS) Appropriate Use Criteria Cervical Spine Surgery
2012-2014	FDA Safe Use Initiative: Epidural Steroid Injections. Volunteer Member representing North American Spine Society
2013-2018	North American Spine Society (NASS) Medical Editor and Chair <i>SpineLine</i>
2013 2010	North American Spine Society (NASS) Board of Directors: Education Publishing Chair
2015-2017	FDA Orthopaedic and Rehabilitation Devices Panel/Medical Devices Advisory
2010 2017	Committee
2015-2017	North American Spine Society (NASS) Executive Committee of Board of Directors:
	Secretary
2017-2018	North American Spine Society (NASS): Second Vice-President
2018-2019	North American Spine Society (NASS): First Vice-President
2019-2020	North American Spine Society (NASS): President
2020-2021	North American Spine Society (NASS): Past-President
2020-present	Association of Academic Physiatrists: Leadership Development & Recognition
-	Committee, Member-at-Large
2020-present	NASSJ (NASS Open Access Journal): Associate Editor
	SPINE 20 Indonesia 2022 Program Committee Co-Chair

## **Community Service**

1996-1999	Team Physician, Ridgewood High School, Norridge, IL
	Varsity Football Team, Multi-Sport Pre-participation Physicals
1996-1999	Medical Coverage, Performing Artists Ravinia Festival Association, Highland Park, IL
1998	Associate Medical Director, Chicago Half Marathon, Chicago, IL
1998-1999	Medical Director, Chase Corporate Challenge and Home Depot Bastille Day 5K races,
	Chicago, IL
2000-2001	Team Physician, Chicago Steel Junior A Hockey Team, Bensenville, IL
2005	Medical Coverage, Rocky Mountain Half Marathon, Denver, CO
2018-2020	USA Climbing Adaptive Climbing Task Force
2022-present	Catalyst Sports, Adaptive Rock Climbing Volunteer

## <u>Grants</u>

 "Improving Function in Older Veterans with Hospital-associated Deconditioning" PI: Jennifer Stevens-Lapsley, DPT Role: Co-Investigator (10% effort) VA RR&D I01 RX001978-01 Amount: \$275,000 x 4 years Study dates: 4/1/16 -/3/31/20
 "Advancing Rehabilitation after Total Hip Arthroplasty"

PI: Jennifer Stevens-Lapsley, DPT
Role: Co-Investigator (10% effort)
VA RR&D I01 RX002251 Amount: \$275,000 x 4 years
Study dates: 4/1/16 -/3/31/20

3. "Physical activity behavior change for older Veterans after dysvascular amputation" PI: Cory Christiansen, DPT Role: Safety Officer VA RR&D I21RX002054-01A1 Amount: \$194,264 Study dates: 7/1/16 - 6/30/18

4. "Optimizing physical activity outcomes for Veterans after total knee arthroplasty" PI: Cory Christiansen, DPT Role: Co-Investigator (10% effort) VA RR&D I-1RX002417 Amount: \$275,000 x 4 years Study dates: 11/1/17-10/31/21

#### **Honors and Awards**

1988	Magna cum laude, Michigan State University, East Lansing, Michigan
1996-1997	Kovler Family Resident Award, In recognition of commitment to teamwork and
	multidisciplinary approach, Rehabilitation Institute of Chicago, Chicago, Illinois
1997	Scholl Foundation Research Fellowship
	Rehabilitation Institute of Chicago, Chicago, Illinois
2001-2019	Best Doctors in America, BestDoctors, Inc
2003, 2014	America's Top Physicians, Consumer's Research Council of America
2007, 2010	Biltmore Who's Who Among Executives and Professional
2011	Golden Goniometer, Resident Teacher of the Year, Department of Physical
	Medicine and Rehabilitation, University of Colorado
2013	Guest Lecturer/Invited Speaker, John McCulloch, MD Memorial Winter Spine
	Conference, Breckenridge, Colorado, February 2013

2014, 2017	Jerome Gersten, MD Role Model Award, Department of Physical Medicine and
	Rehabilitation, University of Colorado
2017-present	Honorary Member, Saudi Spine Society
2021	Outstanding Contributor Award, Department of Physical Medicine and Rehabilitation,
	Vanderbilt University Medical Center
2022	Department of Veterans Affairs Service Award – 10 Years of US Government Service

#### **Teaching Activities**

#### **Medical Student Teaching**

- 1997-1998 Physical Medicine and Rehabilitation Lecture Series, "Multiple Sclerosis and Amyotrophic Lateral Sclerosis", Northwestern University Medical School, Chicago, Illinois
- 1997-2000 Fourth Year Medical Student 4 week rotation, Center for Spine, Sports and Occupational Rehabilitation, Rehabilitation Institute of Chicago, (numerous Northwestern University Medical School and visiting medical students), Chicago, Illinois
- 2004-2010 Fourth Year Medical Student 4 week rotation, University of Colorado at Denver/ Anschutz Medical Center, School of Medicine (numerous University of Colorado School of Medicine and visiting medical students), Aurora, Colorado
- 2005 "Physical Medicine and Rehabilitation", April 2005, Medical Specialties Series, University of Colorado School of Medicine, Denver, Colorado
- 2005-2008 "Physical Medicine and Rehabilitation", First Year Medical Students, Orthopedic Elective, University of Colorado School of Medicine, Denver, Colorado.
- 2005-2006 Musculoskeletal Physical Examinations, Second Year Medical Students, University of Colorado School of Medicine, Denver, Colorado
- 2006 Specialty Selection Panel of Advisors and Small Group Moderator, December 2006, Third Year Medical Students, University of Colorado School of Medicine, Denver, Colorado
- 2006-2019 Block Director, Musculoskeletal Block, University of Colorado School of Medicine, Orientation and Physical Examination Workshop Director

#### **Allied Health Teaching**

- 2004-2005 Session Moderator, Interprofessional Orientation, August 27, 2004 and August 24, 2005, University of Colorado Denver and Health Sciences Center
   2005 "Radiology for Physical Therapists", September 23, 2005, Small group session teaching
- radiology for Physical Therapists", September 23, 2005, Small group session teaching radiology interpretation for Physical Therapy students, University of Colorado, School of Physical Therapy, Denver, Colorado
- 2006-2008 "Physician and Therapist Communication: MD Panel", University of Colorado, School of Physical Therapy, Denver, Colorado
- 2007 "Radiology for Physical Therapists", September 7, 2007, University of Colorado, School of Physical Therapy Didactic Session Lecturer
- 2016-2017 PhD Advisor, Matthew Davidson, University of Colorado Department of Biomechanics

## **Resident Teaching**

Department of Physical Medicine and Rehabilitation, Vanderbilt University Medical Center, Nashville, Tennessee

2019-present Resident Lecture Series Musculoskeletal Curriculum and Administrative Curriculum

Department of Physical Medicine and Rehabilitation, University of Colorado Anschutz Medical Center, Aurora, Colorado

- 2004-2016 Musculoskeletal Lecture Series and Anatomy Dissection (25+ hours per year)
- 2004-2012 Spine Center Resident and Fellow Journal Club (40 hours per year)
- 2004-2012 Clinical teaching of residents, Spine Center and Inpatient Rehabilitation coverage, 15 hours per week
- 2012-2019 Clinical teaching of residents, Denver VA Medical Center, Outpatient Clinics and Inpatient Rehabilitation coverage, 10-20 hours per week

Department of Physical Medicine and Rehabilitation, Northwestern University Medical School, Rehabilitation Institute of Chicago, Chicago, Illinois

- 1997-1998 Supervision and teaching of residents, Center for Spine, Sports and Occupational Rehabilitation (20 hours per week
- 1997-1999 Weekly Sports and Spine Seminar/Anatomy and Kinesiology Course for PM&R residents", Rehabilitation Institute of Chicago, (40 hours per year)
- 1998-1999 "Radiculopathy and Plexopathy", EMG Lecture Series, Rehabilitation Institute of Chicago (2 hours per year)
- 1998-1999 Supervision of EMG residents, Rehabilitation Institute of Chicago (4 hours per week)
- 2000-2004 Weekly Sports and Spine Seminar, Rehabilitation Institute of Chicago (5 hours per year)
- 2000-2004 Supervision and teaching of residents, RIC & Loyola Partnership, Oakbrook Terrace, Illinois (8 hours per week, 3-4 months per year)

Department of Orthopaedics and Rehabilitation, Loyola University Stritch School of Medicine, Maywood, Illinois

- 2000-2004 Resident Musculoskeletal Lecture Series / Musculoskeletal Physical Exam (4 hours per year)
- 2000-2004 Supervision and teaching of residents, Loyola University Medical Center and RIC & Loyola Partnership, Maywood and Oakbrook Terrace, Illinois (4-8 hours per week, 4-6 months per year)

## **Fellow Teaching**

- 1998-1999 Fellowship Co-Director, Sports and Spine Fellowship (non-ACGME accredited), Rehabilitation Institute of Chicago, Chicago, Illinois (1 per year)
- 1998-1999 Supervision and teaching of fellow, including primary injection technique educator, Rehabilitation Institute of Chicago, Sports and Spine Fellow, Center for Spine, Sports, and Occupational Rehabilitation (16 hours per week, 1 fellow per year)
- 2004-2012 Supervision and teaching of fellows, including injection training, electrodiagnostic training, and clinic supervision, PM&R Pain Medicine (Spine and Sports) Fellowship (ACGME accredited), University of Colorado Anschutz Medical Campus, Aurora, Colorado (2 fellows per year, 30 hours per week)
- 2005-2012 Fellowship Site Director (Co-Director 2004), PM&R Pain Medicine (Spine and Sports) Fellowship (ACGME accredited), University of Colorado Anschutz Medical Campus, Aurora, Colorado (1-2 fellows per year)

# Course Instructor/Director/Chairmanships

1998	Sports Medicine XI: Case Studies in Sports Medicine, December 1998, Rehabilitation
	Institute of Chicago, Chicago, Illinois
2007-2015	Emerging Technologies in Spine Education Summit, Co-Chair
	Telluride, Colorado 2007
	Jackson, Wyoming 2008
	Steamboat Springs, Colorado 2009, 2010
	Park City, Utah 2011-2014
	Snowbird, Utah 2015
2009-2010	North American Spine Society, Advance Lumbar Spinal Injection Workshop, Course
	Director and Injection Skills Training Instructor, Burr Ridge, Illinois
2011	North American Spine Society, Basic Lumbar Spinal Injection Workshop, Course
	Director and Injection Skills Training Instructor, Burr Ridge, Illinois
2011	American Academy of Physical Medicine and Rehabilitation / International Spinal
	Interventions Society, Spinal Injections Workshop, Coordination of Physiatry Lecture
2011	North American Spine Society, Program Co-Chair, 26th Annual Meeting, Chicago, IL
2011-2014	North American Spine Society, Coding and Billing Workshop,
	Course Co-Director:
	Sundance, Utah March 2011
	San Diego, California July 2011
	Chicago, Illinois November 2011
	Park City, Utah February 2012
	Washington, D.C. July 2012
	Dallas, Texas October 2012
	Chicago, Illinois July 2013
	New Orleans, Louisiana October 2013
	Park City, Utah February 2014
2020	North American Spine Society, Basic Lumbar Spinal Injection Workshop, Lecturer and Injection Skills Training Instructor, June 2020, Burr Ridge, Illinois
2023	North American Spine Society, Basic Lumbar Spinal Injection Workshop, Injection Skills Training Instructor, January 2023 Phoenix, Arizona

# **Other Significant Activities**

Administrati	Administrative Appointments	
1998-1999	Co-Director, Spine and Sports Fellowship,	
	Rehabilitation Institute of Chicago, Chicago, Illinois	
1999	Vice-Chief of Staff, Rehabilitation Institute of Chicago, Chicago, Illinois	
2000-2004	Outpatient Medical Director, RIC & Loyola: a Partnership in Rehabilitation, Chicago, Illinois	
	and Maywood, Illinois	
2004-2019	Block Director, Musculoskeletal Care, University of Colorado School of Medicine,	
	Denver/Aurora, Colorado	
2005-2011	Fellowship Director, PM&R Pain Medicine, Spine and Sports Fellowship (ACGME accredited),	
	University of Colorado Department of Physical Medicine and Rehabilitation, Aurora, Colorado	
2006-2013	Outpatient Medical Director, Rehabilitation Services, University of Colorado Hospital, Anschutz	
	Outpatient Pavilion, Aurora, Colorado	
2012-2019	Service Chief, Physical Medicine and Rehabilitation, Eastern Colorado Denver	
	VA Medical Center, Denver/Aurora, Colorado	

2017-2018	Acting Service Chief, Spinal Cord Injury and Disorders, Eastern Colorado Denver
	VA Medical Center, Denver/Aurora, Colorado
2018	Acting Chief of Staff, Eastern Colorado Denver VA Medical Center, May 2018, Denver, Colorado
2018-2019	Acting Deputy Chief of Staff, Eastern Colorado Denver VA Medical Center,
	June – July 2018, various other coverage periods, Aurora, Colorado
2019-present	Service Chief, Physical Medicine and Rehabilitation, VA Tennessee Valley Healthcare System,
-	Nashville and Murfreesboro, Tennessee

### Accomplishments/Curriculum Development

2004	Reorganization of 4 <sup>th</sup> year medical student elective in Physical Medicine and
	Rehabilitation, University of Colorado School of Medicine, Denver, Colorado
2004-2019	Clinical Block Directors committee, Musculoskeletal Care curriculum development,
	University of Colorado School of Medicine, Denver/Aurora, Colorado
2004-2005	Website Development, The Spine Center at University Hospital, University of Colorado
	Hospital, Aurora, Colorado
2010-2011	University of Colorado Department of Physical Medicine and Rehabilitation, Residency
	Musculoskeletal Curriculum Re-Development, Aurora, Colorado

## **Review and Referee Work**

- 1998-2000 American Board of Physical Medicine and Rehabilitation, Re-Certification Examination Question Writer
- 2000-2004 *Archives of Physical Medicine and Rehabilitation*, Journal Article Reviewer (2 articles reviewed)
- 2002 Journal of the American Dental Association,
- Journal Article Reviewer (1 article reviewed)
- 2006-2018 Spine, Journal Article reviewer (35 articles reviewed)
- 2007-2018 American Journal of PM&R, Journal Article reviewer (3 articles reviewed)
- 2008-2018 *PMR*, Journal Article reviewer (20 articles reviewed)
- 2008-2010 AAPM&R Online Case Study Program Subspecialty Editor
- 2008-2013 SpineLine, Journal of the North American Spine Society, Section Editor
- 2014-2018 SpineLine, Journal of the North American Spine Society, Medical Editor

2020-present NASSJ, Open Access Journal of the North American Spine Society, Associate Editor

## **Invited Lectures and Presentations**

## International

- 1. "Anatomy in AMA/CPT", North American Spine Society Coding Update 2008, October 13, 2008, Toronto, Ontario, Canada
- 2. "Coding for Lumbar Spinal Injection Procedures", North American Spine Society Spinal Injections Workshop, October 14, 2008, Toronto, Ontario, Canada
- 3. "Special Interest Paper Presentation: Biomechanics", Session Moderator, October 16, 2008, North American Spine Society 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada
- 4. Visiting Professor, Physical Medicine and Rehabilitation and Spine Injection Clinic, December 2011, El Maadi Hospital, Cairo Egypt
- Invited Lecturer, 1<sup>st</sup> Saudi Spine Society Annual Conference, December 17-19, 2017, Riyadh, Saudi Arabia
  - a. "Management of Pain Post Spinal Cord Injury"
  - b. "Rehabilitation Following Spinal Cord Injury: Cutting Edge Strategies"
  - c. "Role of Medical Societies in Professional Development"
  - d. "Evidence Based Medicine Workshop: Developing Background/Foreground Questions"

- Invited Lecturer, 3<sup>rd</sup> Saudi Spine Society Annual Conference, November 16-18, 2019, Dammam, Saudi Arabia
  - a. "Acupuncture, Dry Needling and Trigger Point Injections: United States approach"
  - b. "Stem Cells and Disc Pain"
- Invited Lecturer, NASS Presidential Address 26<sup>th</sup> Brussels International Spine Symposium, "The Multidisciplinary Approach to Spinal Stenosis and Barriers to Recovery", November 22-23, 2019, Brussels, Belgium
- 8. Invited Presentation, NASS/EuroSpine Presidential Address, October 7, 2020
- 9. Invited Presentation, Muhimbili Orthopaedic Institute/Tanzania Neurosurgical Project, "NASS and International Collaboration", October 27, 2020
- 10. Moderator, SPINE20, International Collaboration in conjunction with G20, Symposium 7: Patient Safety and Spine Care, Riyadh, Saudi Arabia, November 10-11, 2020
- 11. Moderator, Spine Across the Sea, North American Spine Society/Japanese Society for Spine Surgery and Related Research, Abstract session: Complications, July 5, 2021
- 12. Virtual Grand Rounds, NASSi Muhimbili Orthopaedic Institute (Tanzania), "Back Pain and Non-Surgical Treatments", July 28, 2021
- 13. "Teaching Non-Surgical Spine Care in Low Resource Countries", SPINE20, Rome, Italy, September 18, 2021
- 14. "Why should a global SCI rehabilitation strategy be a priority for G20 nations?", SPINE20, Bali, Indonesia, August 5, 2022

## National

- "Low Back Pain Rehabilitation", December 11, 1997, Rehabilitation Sports Medicine Conference X: Sports Specific Injuries, Rehabilitation Institute of Chicago / Northwestern University Medical School, Chicago, Illinois
- "Examination of the Shoulder and Knee", December 12, 1997, Rehabilitation Sports Medicine Conference X: Sports Specific Injuries, Rehabilitation Institute of Chicago / Northwestern University Medical School, Chicago, Illinois
- "Overload Injuries in the Lower Extremity", December 13, 1997, Rehabilitation Sports Medicine Conference X: Sports Specific Injuries, Rehabilitation Institute of Chicago / Northwestern University Medical School, Chicago, Illinois
- "Evaluation of Low Back Pain: History, Exam, Imaging, and Electrodiagnostics", December 11, 1998, Rehabilitation Sports Medicine XI: "Case Studies in Sports Medicine", Rehabilitation Institute of Chicago / Northwestern University Medical School, Chicago, Illinois
- 5. "Dance Rehabilitation: Evaluation and Treatment", April 1999, Performing Arts Medicine Association, The Show Must Go On: Keeping the Performing Artist Healthy, Rehabilitation Institute of Chicago, Chicago, Illinois
- 6. "Incidence of Intravascular Uptake in Lumbar Spinal Injection Procedures", October 22, 1999, North American Spine Society 14<sup>th</sup> Annual Meeting, Chicago, Illinois
- 7. "How Do Muscles Really Work?", December 9, 1999, Rehabilitation Sports Medicine XII, Functional Rehabilitation in Sports, Rehabilitation Institute of Chicago / Northwestern University Medical School, Chicago, Illinois
- 8. "Muscle Structure and Function", January 30, 2000, Sixteenth Annual Physical Medicine and Rehabilitation Update, Physiatry for the New Millennium: Yes "2" Knowledge, The University of Utah, Division of Physical Medicine and Rehabilitation, Park City, Utah
- 9. "Treating Common Running Injuries", December 9, 2001, Rehabilitation Sports Medicine XIV, Rehabilitation Institute of Chicago / Northwestern University Medical School, Chicago, Illinois

- "Non-Surgical Treatment of Lumbar Radiculopathy, Spondylolisthesis, and Degenerative Spine Conditions", October 5, 2002, American Academy of Orthopaedic Surgeons, Spine Course: New Perspectives on the Aging Spine, Chicago, Illinois
- 11. "Epidural Steroid Injections: a Critical Review of the Literature", October 5, 2002, American Academy of Orthopaedic Surgeons, Spine Course: New Perspectives on the Aging Spine, Chicago, Illinois
- "Non-Surgical Treatment of Cervical Spondylosis and Related Conditions", October 5, 2002, American Academy of Orthopaedic Surgeons, Spine Course: New Perspectives on the Aging Spine, Chicago, Illinois
- 13. "Rehabilitation of Low Back Pain", November 8, 2003, Loyola University Department of Orthopaedic Surgery and Rehabilitation, Sports Medicine Update, Maywood, Illinois
- 14. "Rehabilitation of Shoulder Injuries", November 8, 2003, Loyola University Department of Orthopaedic Surgery and Rehabilitation, Sports Medicine Update, Maywood, Illinois
- 15. "Lumbar Degenerative Disc Disease: Point / Counterpoint Roundtable", March 5, 2005, Emerging Technologies in Spine Education Summit, Telluride, Colorado
- 16. Epidural Steroid Injections: Rationale, Risks, and Rewards", March 4, 2005, Emerging Technologies in Spine Education Summit, Telluride, Colorado
- 17. Clinical Pearls: 2 Slides in 2 Minutes", October 28, 2005, 66<sup>th</sup> Annual Assembly American Academy of Physical Medicine and Rehabilitation, Philadelphia, Pennsylvania
- "PASSOR: Thoracic Spine Case Presentations and Clinical Pearls", October 28, 2005, Session Moderator, Mini Course at the AAPM&R 66<sup>th</sup> Annual Assembly, Philadelphia, PA
- 19. "Non-surgical Session: Myofascial Pain", Session Moderator, January 26, 2006, Second Annual Emerging Technologies in Spine Education Summit, Telluride, Colorado
- 20. "Secondary Sources of Myofascial Pain", January 26, 2006, Second Annual Emerging Technologies in Spine Education Summit, Telluride, Colorado
- 21. "Complications of Cervical Injections", January 28, 2006, Second Annual Emerging Technologies in Spine Education Summit, Telluride, Colorado
- 22. "Upper Limb Entrapment Neuropathies", June 2, 2006, American College of Sports Medicine / North American Spine Society Joint Symposium, 53<sup>rd</sup> Annual Meeting American College of Sports Medicine, Denver, Colorado
- 23. "Achilles Tendon Injuries: Surgery or Non-surgical Treatment?", November 12, 2006, 67<sup>th</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, Honolulu, Hawaii
- 24. "Musculoskeletal and Pain Poster Grand Rounds Moderator", November 11, 2006, 67<sup>th</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, Honolulu, Hawaii
- 25. "Clinical Pearls: 2 Slides in 2 Minutes", September 27, 2007, 68<sup>th</sup> Annual Assembly American Academy of Physical Medicine and Rehabilitation, Boston, Massachusetts
- 26. "Special Interest Paper Presentation: Medical Management", Session Moderator, October 26, 2007, North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, Texas
- 27. "Basic Science of Sports: Pharmacology", May 7, 2008, American Academy of Physical Medicine and Rehabilitation Sports Medicine Board Examination Review Course, Atlanta, Georgia
- 28. "Health Promotion/Preventative Aspects of Sports Medicine: Exercise Prescription", May 8, 2008, American Academy of Physical Medicine and Rehabilitation Sports Medicine Board Examination Review Course, Atlanta, Georgia
- 29. Health Promotion/Preventative Aspects of Sports Medicine: Event Administration", May 8, 2008, American Academy of Physical Medicine and Rehabilitation Sports Medicine Board Examination Review Course, Atlanta, Georgia
- 30. "Coding for Neurologic Testing and Monitoring", North American Spine Society Coding Update 2008, July 18, 2008, Washington, D.C.

- 31. "Spinal Cord Stimulators, Analgesic Pumps, Injection, Radiology, and Supply Codes", North American Spine Society Coding Update 2008, July 19, 2008, Washington, D.C.
- 32. "Coding and Billing for Interventional Procedures", American Academy of Physical Medicine and Rehabilitation Coding and Billing Workshop, November 19, 2008, San Diego, California
- 33. "Hands-On Coding Scenarios", American Academy of Physical Medicine and Rehabilitation Coding and Billing Workshop, November 19, 2008, San Diego, California
- 34. "Diagnostic and Therapeutic Injections", Session Moderator, American Academy of Physical Medicine and Rehabilitation 69<sup>th</sup> Annual Assembly, November 21, 2008, San Diego, California
- 35. "Upper Limb Pain Syndromes", Session Moderator, American Academy of Physical Medicine and Rehabilitation 69<sup>th</sup> Annual Assembly, November 21, 2008, San Diego, California
- 36. "Clinical Pearls: 2 Slides in 2 Minutes", November 22, 2008, 69<sup>th</sup> Annual Assembly American Academy of Physical Medicine and Rehabilitation, San Diego, California
- 37. "When To Give Selective Nerve Root Blocks A Try", February 6, 2009, Fifth Annual Emerging Technologies in Spine Education Summit, Steamboat Springs, Colorado
- 38. "Shoulder EMG", Association of Academic Physiatrists Resident/Fellow Workshop, AAP 2009 Annual Meeting, February 26, 2009, Colorado Springs, Colorado
- 39. "Lumbar Medial Branch Blocks" and "Roundtable Discussion", Spinal Procedures Workshop, March 7-8, 2009, American Academy of Physical Medicine and Rehabilitation, Denver, Colorado
- 40. "Basic Science of Sports: Pharmacology", May 14, 2009, 2<sup>nd</sup> American Academy of Physical Medicine and Rehabilitation Sports Medicine Board Examination Review Course, Denver, Colorado
- 41. "Health Promotion/Preventative Aspects of Sports Medicine: Exercise Prescription", May 15, 2009, 2<sup>nd</sup> American Academy of Physical Medicine and Rehabilitation Sports Medicine Board Examination Review Course, Denver, Colorado
- 42. Health Promotion/Preventative Aspects of Sports Medicine: Event Administration", May 15, 2009, 2<sup>nd</sup> American Academy of Physical Medicine and Rehabilitation Sports Medicine Board Examination Review Course, Denver, Colorado
- 43. "Complications and Radiology Safety", North American Spine Society Advanced Lumbar Injection Course, June 13, 2009, Burr Ridge, Illinois
- 44. "Coding for Neurologic Testing and Monitoring", North American Spine Society Coding Update 2009, July 24, 2009, Baltimore, Maryland
- 45. "Coding for Injections, Radiology, and Supply Codes", North American Spine Society Coding Update 2009, July 25, 2009, Baltimore, Maryland
- 46. "Coding and Billing for Interventional Procedures", American Academy of Physical Medicine and Rehabilitation Coding and Billing Workshop, October 20-21, 2009, Austin, Texas
- 47. "Hands-On Coding Scenarios", American Academy of Physical Medicine and Rehabilitation Coding and Billing Workshop, October 20-21, 2009, Austin, Texas
- 48. "Spine and Sports: Implications for the Senior Athlete", North American Spine Society 24<sup>th</sup> Annual Meeting Symposium Moderator, November 13, 2009, San Francisco, California
- 49. "Degenerative Disc Disease: Novel Non-Operative Treatments", January 15, 2010, Sixth Annual Evidence & Technology Spine Summit, Steamboat Springs, Colorado
- 50. "Cervical Epidural Injections: Interlaminar Is Best Initial Approach", January 16, 2010, Sixth Annual Evidence & Technology Spine Summit, Steamboat Springs, Colorado
- 51. "Coding and Billing Workshop", American Academy of Physical Medicine and Rehabilitation Annual Meeting, November 2-3, 2010, Seattle, Washington
- 52. "Implications of Degenerative Scoliosis in the Senior Tennis Player", North American Spine Society 24<sup>th</sup> Annual Meeting Symposium Moderator, November 13, 2010, San Francisco, California
- 53. "Anatomy in CPT Overview", North American Spine Society Coding Update 2010, March 5-6, 2010, Copper Mountain, Colorado

- 54. "Coding in Teaching Hospitals", North American Spine Society Coding Update 2010, March 5-6, 2010, Copper Mountain, Colorado
- 55. "Coding for Injections, Radiology, and Supply Codes", North American Spine Society Coding Update 2010, March 5-6, 2010, Copper Mountain, Colorado
- 56. "Complications and Radiology Safety", North American Spine Society Advanced Lumbar Injection Course, June 5, 2010, Burr Ridge, Illinois
- 57. "Anatomy in CPT Overview", North American Spine Society Coding Update 2010, October 4-5, 2010, Orlando, Florida
- 58. "Sorting Out Neck, Shoulder, and Scapular Pain", North American Spine Society 25<sup>th</sup> Annual Meeting Symposium Moderator, October 9, 2010, Orlando, Florida
- 59. "Anatomy in CPT Overview", North American Spine Society Coding Update 2011, March 4-5, 2011, Sundance, Utah
- 60. "Coding in Teaching Hospitals", North American Spine Society Coding Update 2011, March 4-5, 2011, Sundance, Utah
- 61. "Coding for Injections, Radiology, and Supply Codes", North American Spine Society Coding Update 2011, March 4-5, 2011, Sundance, Utah
- 62. "Complications and Radiology Safety", North American Spine Society Basic Lumbar Injection Course, June 4, 2011, Burr Ridge, Illinois
- 63. "Spondylolysis in an Adolescent Athlete: Treatment Options", National Athletic Trainers Associations Annual Meeting, June 20, 2011, New Orleans, Louisiana
- 64. "Anatomy in CPT Overview", North American Spine Society Coding Update 2011, July 15-16, 2011, San Diego, California
- 65. "ICD-9 and ICD-10 in Coding and Billing", North American Spine Society Coding Update 2011, July 15-16, 2011, San Diego, California
- 66. "Coding and Billing for Interventional Spine Procedures", International Spine Intervention Society / American Academy of Physical Medicine and Rehabilitation Collaborative Lumbar Procedures Bio-Sills Lab, September 16, 2011, Aurora, Colorado
- 67. "Understanding the CPT and RUC Process", American Academy of Physical Medicine and Rehabilitation Annual Meeting, Coding and Billing Workshop, November 15-16, 2011, Orlando, Florida
- 68. "Coding in Teaching Hospitals", American Academy of Physical Medicine and Rehabilitation Annual Meeting, Coding and Billing Workshop, November 15-16, 2011, Orlando, Florida
- 69. "Anatomy in CPT Overview", North American Spine Society Coding Update 2012, February 24, 2012, Park City, Utah
- 70. "Coding in Teaching Hospitals", North American Spine Society Coding Update 2012, February 25, 2011, Park City, Utah
- 71. "Conservative Care for Cervical Myelopathy: The Evidence", The Eighth Annual Evidence and Technology Spine Summit, February 25, 2012, Park City, Utah
- 72. "Ozone Treatments", The Eighth Annual Evidence and Technology Spine Summit, North American Spine Society, February 25, 2012, Park City, Utah
- 73. "Anatomy in CPT Overview", North American Spine Society Coding Update 2012, July 13-14, 2012, Washington, DC
- 74. "FDA Safe Use Initiative for Epidural Steroids", February 22, 2013 Denver Spine Winter Meeting, Breckenridge, Colorado
- 75. "Directional Preference for Lumbar Spine", February 22, 2013 Denver Spine Winter Meeting, Breckenridge, Colorado
- 76. "Botulinum Toxin for Cervical Spine Pain", The Ninth Annual Evidence and Technology Spine Summit, North American Spine Society, February 28, 2013, Park City, Utah

- 77. "Anatomy in CPT", North American Spine Society Coding Update 2013, July 19-20, 2013, Chicago, Illinois
- 78. "Coding Electrodiagnostic Procedures", North American Spine Society Coding Update 2013, July 19-20, 2013, Chicago, Illinois
- 79. "Coding Injections, Radiology, Supply Codes", North American Spine Society Coding Update 2013, July 19-20, 2013, Chicago, Illinois
- 80. "Introduction to ICD-10", North American Spine Society 28th Annual Meeting, October 9, 2013, New Orleans, Louisiana
- 81. "Role of the Team Physician", 10<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 27, 2014, Park City, Utah
- 82. "On Field Management of Spine Injuries", 10<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 27, 2014, Park City, Utah
- 83. "Coding for Electrodiagnostic Procedures", North American Spine Society Coding Update 2014, February 28 March 1, 2014, Park City, Utah
- 84. "Evaluation and Management Coding", North American Spine Society Coding Update 2014, February 28 – March 1, 2014, Park City, Utah
- 85. "Do Outcome Measures Really Assess What They Say They Do?", 11<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 28, 2015, Snowbird, Utah
- 86. "What's Next After Clinical Prediction Rules?", 11<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 28, 2015, Snowbird, Utah
- 87. "Newer Traction/Decompression Devices", 11<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 28, 2015, Snowbird, Utah
- 88. "Non-surgical Interventions to Treat Discogenic and Sacroiliac Pain", 12<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 26, 2016, Park City, Utah
- 89. "Electrodiagnostic Testing in Spine Conditions", 12<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 27, 2016, Park City, Utah
- 90. "Relative Value Units", 12<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 28, 2016, Park City, Utah
- 91. "Coding for Spine Injections, Pumps, Stimulators and Sedation", North American Spine Society Coding Update 2016, Annual Meeting, October 25, 2016, Boston, Massachusetts
- 92. "Cervical and Lumbar Spine Injections", North American Spine Society Residents and Fellows Course and Cadaver Workshop, October 29, 2016, Boston, Massachusetts
- 93. "Acupuncture, Dry Needling and Trigger Point Injections", 13<sup>th</sup> Annual Evidence and Technology Spine Summit, North American Spine Society, February 25, 2017, Park City, Utah
- 94. "Advanced Injection Procedures for Complex Pain and Functional Impairment", North American Spine Society, June 23, 2017, Burr Ridge, Illinois.
- 95. "Indications and the Role of Interventional Lumbar Procedures", North American Spine Society Residents and Fellows Course, September 15, 2017, Burr Ridge, Illinois.
- 96. "Coding for Injections", North American Spine Society Coding Update 2017, Annual Meeting, October 24, 2017, Orlando, Florida
- 97. "Opioids and Their Alternatives in the Management of Chronic Pain"; The Opioid Predicament: Implications for Spine Physicians and Surgeons, North American Spine Society Annual Meeting Symposium Presentation, October 27, 2017, Orlando, Florida
- 98. "Coding for Injections", North American Spine Society Coding Update 2018, April 6, 2018, Austin, Texas
- 99. "Coding for Injections", North American Spine Society Coding Update 2018, September 25, 2018, Los Angeles, California
- 100. "Coding for Injections", North American Spine Society Coding Update 2019, April 6, 2019, New Orleans, Louisiana

- "Stem Cells and Disc Pain", North American Spine Society Summer Spine Meeting, August 2, 2019, Honolulu, HI
- 102. "Acupuncture and Dry Needling for Back Pain: United States approach", North American Spine Society Summer Spine Meeting, August 3, 2019, Honolulu, HI
- 103. "Interlaminar and Caudal Epidural Steroid Injections", North American Spine Society Lumbar Spine Injection course, January 24, 2020, Chicago, IL
- 104. "Diversity, Equity, Inclusion and Bias: We Can Do Better", NASS 2020 Annual Meeting Presidential Address, October 6, 2020.
- 105. "Coding for Injections", North American Spine Society Coding Update 2021, January 23, 2021, Virtual and Livestream meeting
- 106. "Coding for Electrodiagnostic Studies", North American Spine Society Coding Update 2021, January 23, 2021, Virtual and Livestream meeting
- 107. "Coding for Injections", North American Spine Society Coding Update 2021 Annual Meeting September 28, 2021, Boston, MA.
- 108. "Coding for Injections", North American Spine Society Coding Update 2022, April 2, 2022, Nashville, TN.
- 109. "Coding for Radiographic Procedures", North American Spine Society Coding Update 2023, April 1, 2023, New Orleans, LA.
- 110. "Coding Alone Isn't Enough: Coverage policies/what you need to know", North American Spine Society Coding Update 2023, April 1, 2023, New Orleans, LA.

## Regional

- 1. "Physical Examination of the Lumbosacral Spine, Hip, and Pelvis", August 1997, American Academy of Physical Medicine and Rehabilitation, Resident Physician Council Midwest Regional Conference, Chicago, Illinois
- 2. "Non-operative Management of Common Foot and Ankle Disorders", February 1998, Midwest Clinical Conference, Chicago Medical Society, Chicago, Illinois
- 3. "Medical Considerations and the Disabled Athlete", July 1999, Sports and Recreation Conference, Rehabilitation Institute of Chicago, Wirtz Sports Program, Chicago, Illinois
- 4. "Non-Operative Management of Knee Injuries", June 2000, Trinity Outpatient Rehabilitation Clinics Seminar for Nurse Case Managers, Kansas City, Missouri
- 5. "Evaluation and Treatment of Back Pain: The Physiatric Approach", January 2000, Grand Rounds, Trinity Lutheran Hospital, Kansas City, Missouri
- 6. "Epidural Steroid Injections", November 2000, Department of Orthopaedics and Rehabilitation Grand Rounds, Loyola University Medical Center, Maywood, Illinois
- 7. "Avoiding Complications of Epidural Steroid Injections", February 2005, Keynote Lecture, Rocky Mountain Rehabilitation Society, Denver, Colorado

## Local

- 1. "Rehabilitation of Athletic Injuries", March 1998, Northwestern University Prosthetic-Orthotic Center, Chicago, Illinois
- 2. "Non-Surgical Management of Low Back Pain", April 1998, Northwestern Memorial Hospital Healthy Transitions Program, Chicago, Illinois
- 3. "Physiatric Approach to Low Back Pain", September 1999, Northwestern Memorial Hospital Healthy Transitions Program, Chicago, Illinois
- 4. "EMG Case Presentation", May 12, 2004, University of Colorado at Denver and Health Sciences Center, Department of Physical Medicine and Rehabilitation, Resident Lecture Series, Denver, Colorado

- 5. "Ulnar and Radial Neuropathies", May 19, 2004, University of Colorado at Denver and Health Sciences Center, Department of Physical Medicine and Rehabilitation, Resident Lecture Series, Denver, Colorado
- 6. "Principles of Electrodiagnostic Testing For Orthopedists", June, 2004, University of Colorado at Denver and Health Sciences Center, School of Medicine and Department of Orthopaedic Surgery, Denver, Colorado
- 7. "Role of Injections for Back and Neck Pain", May 18, 2006, The Spine Center at University of Colorado Hospital, Aurora, Colorado
- 8. "Radiology Fundamentals and Trauma", September 7, 2006, University of Colorado Health Sciences Center, Department of Physical Therapy, Denver, Colorado
- 9. "Lower Extremity Radiology", September 7, 2006, University of Colorado Health Sciences Center, Department of Physical Therapy, Core Lecture Series, Denver, Colorado
- "Sports Medicine Coverage", March 12, 2008, University of Colorado at Denver School of Medicine, Department of Physical Medicine and Rehabilitation, Resident Lecture Series, Denver, Colorado
- 11. "Sports Medicine: Event Administration", March 19, 2008, University of Colorado at Denver School of Medicine, Department of Physical Medicine and Rehabilitation, Resident Lecture Series, Denver, Colorado
- 12. "Spine Disorders", April 23, 2008, University of Colorado at Denver School of Medicine, Department of Physical Medicine and Rehabilitation, Resident Lecture Series, Denver, Colorado
- 13. "Complications of Epidural Injections", July 15, 1008, University of Colorado ACGME Pain Medicine Fellowship Grand Rounds, Aurora, Colorado.
- 14. "Lower Extremity Radiology", September 5, 2008, University of Colorado Health Sciences Center, Department of Physical Therapy, Core Lecture Series, Denver, Colorado
- 15. "Electrodiagnostic Studies for the Orthopaedic Surgeon", December 17, 2010, University of Colorado Orthopaedic Hand and Upper Extremity Conference, Aurora, Colorado
- 16. "On Field Management of Cervical Spine", August 31, 2011, University of Colorado Sports Medicine Conference, Aurora, Colorado
- 17. "Electrodiagnostic Studies for the Orthopaedic Surgeon", September 28, 2012, University of Colorado Orthopaedic Hand and Upper Extremity Conference, Aurora, Colorado
- 18. "Epidural Steroid Injections and the FDA Safe Use Initiative", October 7, 2014, University of Colorado General Internal Medicine Grand Rounds, Aurora, Colorado
- 19. "PM&R: Past, Present, and Future", September 19, 2017, Mayo Clinic Arizona Physical Medicine and Rehabilitation Grand Rounds, Phoenix, Arizona
- 20. "Spine Anatomy" Vanderbilt PM&R Resident Didactics, August 19, 2021, Nashville, Tennessee
- 21. "Hip Case" Vanderbilt PM&R Resident Didactics, February 8, 2022, Nashville Tennessee

## **<u>Publications</u>** (\*Original Research)

## Articles in Peer-reviewed Journals

- 1. Roth EJ, Park KL, **Sullivan WJ**. "Concomitant Cardiovascular Disease in the Dysvascular Amputee", *Archives of Physical Medicine and Rehabilitation*; 79:205-15, 1998.
- \*Sullivan, WJ, Willick, SE, Chira-Adisia, W, Zuhosky J, Tyburski M, Dreyfuss P, Prather H, Press JM. "Incidence of Intravascular Uptake in Lumbar Spinal Injection Procedures", *Spine*; 25(4): 481-486, 2000
- 3. Lento PH, Sullivan WJ. "The Downed Runner", *Physical Medicine and Rehabilitation Clinics of North America*; 16:831-849, 2005.
- 4. Panagos A, Sable AW, Zuhosky JP, Irwin RW, **Sullivan WJ**, Foye PM. "Industrial medicine and acute musculoskeletal rehabilitation. 1. Diagnostic testing in industrial and acute musculoskeletal injuries", *Archives of Physical Medicine and Rehabilitation*; 2007 Mar; 88(3 Suppl 1): S3-9.

- 5. **Sullivan WJ**, Panagos A, Foye PM, Sable AW, Irwin RW, Zuhosky JP. "Industrial medicine and acute musculoskeletal rehabilitation. 2. Medications for the treatment of acute musculoskeletal pain", *Archives of Physical Medicine and Rehabilitation*; 2007 Mar; 88(3 Suppl 1): S10-3.
- 6. Foye PM, **Sullivan WJ**, Sable AW, Panagos A, Zuhosky JP, Irwin RW. "Industrial medicine and acute musculoskeletal rehabilitation. 3. Work-related musculoskeletal conditions: the role for physical therapy, occupational therapy, bracing, and modalities", *Archives of Physical Medicine and Rehabilitation*; 2007 Mar; 88(3 Suppl 1): S14-7.
- 7. Irwin RW, Zuhosky JP, **Sullivan WJ**, Panagos A, Foye PM, Sable AW. "Industrial medicine and acute musculoskeletal rehabilitation. 4. Interventional procedures for work-related cervical spine conditions", *Archives of Physical Medicine and Rehabilitation*; 2007 Mar; 88(3 Suppl 1): S18-21.
- 8. Irwin RW, Zuhosky JP, **Sullivan WJ**, Foye PM, Sable AW, Panagos A. "Industrial medicine and acute musculoskeletal rehabilitation. 5. Interventional procedures for work-related lumbar spine conditions", *Archives of Physical Medicine and Rehabilitation*; 2007 Mar; 88(3 Suppl 1): S22-8.
- Foye PM, Sullivan WJ, Panagos A, Zuhosky JP, Sable AW, Irwin RW. "Industrial medicine and acute musculoskeletal rehabilitation. 6. Upper- and lower-limb injections for acute musculoskeletal injuries and injured worker", *Archives of Physical Medicine and Rehabilitation*; 2007 Mar; 88(3 Suppl 1): S29-33.
- 10. Zuhosky JP, Irwin RW, Sable AW, **Sullivan WJ**, Panagos A, Foye PM. "Industrial medicine and acute musculoskeletal rehabilitation. 7. Acute industrial musculoskeletal injuries in the aging workforce", *Archives of Physical Medicine and Rehabilitation*; 2007 Mar; 88(3 Suppl 1): S34-9.
- \*Gonzalez PG, Pepper M, Sullivan WJ, Akuthota V. "Confirmation of Needle Placement Within the Piriformis Muscle of a Cadaveric Specimen Using Anatomic Landmarks and Fluoroscopic Guidance", *Pain Physician* 2008; 11:3:2327-331.
- 12. \*Gonzalez P, Laker SR, **Sullivan W**, Harwood JEF, Akuthota V. "The Effects of Epidural Betamethasone on Blood Glucose in Patients with Diabetes Mellitus", *PM&R*, 1(4): 340-345, 2009.
- 13. Mayer RS, Baima J, Blocj R, Braza D, Newcomer K, Sherman A, **Sullivan W**. "Musculoskeletal Education for Medical Students", *Am J Phys Med Rehabil*, 2009 Oct;88(10):791-7
- 14. Gonzalez PG, Stratton AT, Petersen BD, **Sullivan WJ.** "Diastematomyelia and Tethered Cord in a Patient with Decreased Sensation and Hyperreflexia", *SpineLine*, Volume X, Issue 1, January-February 2009.
- 15. Brakke R, Singh J, **Sullivan W**. "Physical Therapy in Persons with Osteoarthritis", *PM&R*, Vol 4, Issue 5S, pg S53-S58, 2012.
- 16. **Sullivan W**, Zuhosky J. "The Effect of New Electromyography and Nerve Conduction Studies: Fiscal Cliff or Slippery Slope?" *PM&R*, Vol 5, Issue 5S:S112–S114.
- 17. Sullivan WJ. "Predicting benefit from lumbar epidural steroid injection: commentary", *The Spine Journal*, Vol. 16, No. 8, 935-936, 2016.
- \*Miller MJ, Stevens-Lapsley J, Fields TT, Coons D, Bray-Hall S, Sullivan W, Christiansen CL. "Physical activity behavior change for older veterans after dysvascular amputation", *Contemporary Clinical Trials*, Vol. 55, 10-15, April 2017.
- 19. \*Friedrich J, Brakke R, Akuthota V, **Sullivan W**. "Reliability and Practicality of the Core Score: Four Dynamic Core Stability Tests Performed in the Physician Office Setting", *Clinical Journal of Sports Medicine*, Issue 4, 409-414, July 2017.
- 20. Tahmasbi Sohi M, **Sullivan WJ**, Anderson DJM. "Transient Hypokalemic Quadriplegia Following a Lumbar Transforaminal Epidural Dexamethasone Injection: A Case Report", *PM&R*, PMID: 29074369, May;10(5):544-547, Epub 2017 Oct 24.
- \*Kline PW, Melanson E, Sullivan WJ, Blatchford PJ, Miller M, Stevens-Lapsley JE, Christiansen CL. "Improving Physical Activity Through Adjunct Telerehabilitation Following Total Knee", *Physical Therapy*, 17 October 2018.

- 22. \*Akuthota V, Meron AJ, Singh RJ, Boimbo S, Laker SR, Brakke R, Sridhar BV, Friedrich J, Sullivan WJ. "The Utility of MRI Results in Physician Decision Making Prior to Initial Lumbar Spinal Injection", *The Spine Journal*, Volume 19, Issue 9, September 2019 <u>https://doi.org/10.1016/j.spinee.2019.04.016</u>
- 23. \*Christiansen CL, Miller MJ, Kline PW, Fields TT, Sullivan WJ, Blatchford PJ, Stevens-Lapsley JE. "Biobehavioral Intervention Targeting Physical Activity Behavior Change for Older Veterans After Non-traumatic Amputation: a randomized controlled trial", *PMR: The Journal of Injury, Function, and Rehabilitation*, Volume 12, Issue 10, October 2020 <a href="https://dx.doi.org/10.1002/pmrj.12374">https://dx.doi.org/10.1002/pmrj.12374</a>
- 24. McCormick ZL, Schneider BJ, Prather H, Sullivan WJ, Smuck M. "Approaching the Management of Expectations in Patients with Chronic Low Back Pain: Enthusiasm versus Realism", *Pain Medicine*, June 2020.
- 25. Berlin E, Malave J, Whitacre R, Sullivan WJ. "The Importance of Personally Reviewing Imaging for Clinical Correlation: A Case of Thoracic Spinal Stenosis Masquerading as a Motor Neuron Disease", Am J Phys Med Rehabil. 2020 Dec 11. Published online ahead of print, DOI: <u>https://10.1097/PHM.00000000001669</u>.
- 26. Sami I AlEissa, Koji Tamai, Faisal Konbaz, Ahmed Alturkistany, Thomas R Blattert, Harvinder S Chhabra, Giuseppe Costanzo, Edward J Dohring, Frank Kandziora, Ralph Kothe, Bernardo Misaggi, Eric J Muehlbauer, Paulo Pereira, Shanmuganathan Rajasekaran, William J Sullivan, Eeric Truumees, Yahya Alqahtani, Hana I Alsobayel, Joerg Franke, Marco G A Teli, Jeffrey C Wang, Hazzaa M Al-Hazzaa, Majed Nasser Alosaimi, Sigurd Berven, Marco Brayda-Bruno, Andrew M Briggs, Jamiu O Busari, Antonello-Valerio Caserta, Pierre Côté, Marco Crostelli, Michael G Fehlings, Robert Gunzburg, Sami Haddadin, Joseph Ihm, Alan S Hilibrand, Andrea Luca, Mazza Osvaldo, Tim Pigott, Dominique A Rothenfluh, Carlo Ruosi, Louis-Rachid Salmi, Ajoy P Shetty, Kern Singh, Alexander R Vaccaro, David A Wong, Mehmet Zileli, Margareta Nordin. "SPINE20: A global advocacy group promoting evidence-based spine care of value". *Eur Spine J.* June 9, 2021, doi: <u>https://10.1007/s00586-021-06890-5</u>.
- Berlin E, Khan S, Sullivan WJ, Schneider BJ, Walker J. "Giant Tarlov Cyst and the Importance of Advanced Imaging Prior to Interventional Spine Injections", *Am J Phys Med Rehabil*. July 16, 2021, Published online ahead of print, DOI: <u>https://10.1097/PHM.00000000001849</u>.
- 28. Reitman CA, Hills JM, Standaert CJ, Bono CM, Mick CA, Furey CG, Kauffman CP, Resnick DK, Wong DA, Prather H, Harrop JS, Baisden J, Wang JC, Spivak JM, Schofferman J, Riew KD, Lorenz MA, Heggeness MH, Anderson PA, Rao RD, Baker RM, Emery SE, Watters III WC, Sullivan WJ, Mitchell W, Tontz JR W, Ghogawala Z.. "Cervical fusion for treatment of degenerative conditions: development of appropriate use criteria", *The Spine Journal* 21 Volume 21, Issue 9, pg 1460-1472, September 01, 2021. DOI: <u>https://doi.org/10.1016/j.spinee.2021.05.023</u>.
- 29. \*Chator A, Drolet BC, Kumar NG, Sullivan WJ, Kennedy DJ. "Physical Medicine and Rehabilitation Program Directors' Perspectives on USMLE Step 1 Scoring Changes", *Am J Phys Med Rehabil.* 2Volume 100, Number 12, pg 1202-1205 December 2021. DOI: https://10.1097/PHM.00000000001700.
- 30. Khan SA, Roehmer C, Sherwood D, **Sullivan WJ**, Schneider BJ. "The Andersson Lesion: An Uncommon Cause of Back Pain, *SpineLine*, Volume 23, Issue 1, January-February 2022.

- 31. Giuseppe Costanzo, Bernardo Misaggi, Luca Ricciardi, Sami I. AlEissa, Koji Tamai, Fahad Alhelal, Yahya Alqahtani, Hana I. Alsobayel, Markus Arand, Massimo Balsano, Thomas R. Blattert, Marco Brayda-Bruno, Jamiu O. Busari, Marco Campello, Harvinder S. Chhabra, Francesco Ciro Tamburrelli, Pierre Côté16 · Bambang Darwono17 · Frank Kandziora, Giovanni A. La Maida, Eric J. Muehlbauer, Raghava D. Mulukutla, Paulo Pereira, Shanmuganathan Rajasekaran, Dominique A. Rothenfluh, William J. Sullivan, Eeric Truumees, Edward J. Dohring, Tim Pigott, Ajoy P. Shetty, Marco G. A. Teli, Jeffrey C. Wang, Christopher Ames, Johannes R. Anema, Anand Bang, Kenneth M. C. Cheung, Douglas P. Gross, Scott Haldeman, Salvatore Minisola, Rajani Mullerpatan, Stefano Negrini, Louis-Rachid Salmi, M. Silvia Spinelli, Adriaan Vlok, Kwadwo P. Yankey, Fabio Zaina, Ahmed Alturkistany, Jörg Franke, Ulf R. Liljenqvist, Michael Piccirillo, Margareta Nordin. "SPINE20 recommendations 2021: spine care for people's health and prosperity", *Eur Spine J.* April 7, 2022, DOI: <u>https://doi.org/10.1007/s00586-022-07194-y</u>.
- 32. Bambang Darwono, Koji Tamai, Pierre Côté, Sami Aleissa, Agus Hadian Rahim, Paulo Pereira, Hana Alsobayel, Harvinder S. Chhabra, Giuseppe Costanzo, Manabu Ito, Frank Kandziora, Donna Lahey, Cristiano M. Menezes, Sohail Bajammal, William J. Sullivan, Peter Vajkoczy, Alaa Ahmad, Markus Arand, Saiful Asmiragani, Thomas R. Blattert, Jamiu Busari, Edward J. Dohring, Bernardo Misaggi, Eric J. Muehlbauer, Raghava D. Mulukutla, Everard Munting, Michael Piccirillo, Carlo Ruosi, Ahmed Alturkistany, Marco Campello, Patrick C. Hsieh, Marco G. A. Teli, Jeffrey C. Wang, Margareta Nordine. "SPINE20 recommendations 2022: spine care—working together to recover stronger", European Spine Journal November 3, 2022, DOI: https://doi.org/10.1007/s00586-022-07432-3
- 33. Lapsley-Stevens JE, Derlein D, Churchill L, Falvey JR, Nordon-Craft A, Sullivan WJ, Forster JE, Stutzbach JA, Butera KA, Burke RE, Mangione KK. "High-intensity home health physical therapy among older adult Veterans: A randomized controlled trial", *Journal of the American Geriatrics Society*, April 24, 2023, DOI: 10.1111/jgs.18413

#### **Invited articles**

- 1. "An Introduction to Ergonomics: Risk Factors, MSDs, Approaches and Interventions", A Report of the Ergonomics and Disability Support Advisory Committee to the Council on Dental Practice, American Dental Association, 2004.
- 2. Sullivan WJ, Rao R. "Management of Osteoporotic Vertebral Compression Fracture: Conservative Treatment or Vertebral Augmentation", Curve/Countercurve, *SpineLine*, Volume VIII, Issue 4, July-August 2007.
- 3. Laker SR, Sullivan WJ, Strum S. "Overuse Injury", eMedicine.com, March 12,2008.
- 4. Laker SR, Sullivan WJ. "Alcoholic Neuropathy", eMedicine.com, September 5, 2008.
- 5. Gonzalez PG, Sullivan WJ, Sequeira KAJ, Potter PJ. "Biceps Tendinopathy", eMedicine.com, November 14, 2008
- 6. Kaufman CP, **Sullivan WJ**. "2011 CPT Code Changes for Spine Procedures", *SpineLine*, Volume XII, Issue 1, January-February 2011.
- 7. **Sullivan WJ**, Blasier RD. "2012 CPT Code Changes for Spine Procedures", *SpineLine*, Volume XIII, Issue 1, January-February 2012.
- 8. Horn SR, **Sullivan WJ**. "Category III Codes", *SpineLine*, Volume XIII, Issue 3, May- June 2012
- 9. Sullivan WJ. "Welcome to *NASSJ*", Editorial, *North American Spine Society Journal (NASSJ)*, https://doi.org/10.1016/j.xnsj.2020.100001, April 2020

10. Sullivan WJ. "Commentary: In Vivo Measurements of Medial Branch Nerve Depth and Adjacent Osseous Structures for Ablation of Facet-Related Back Pain: Predictors for Patient Candidacy", *North American Spine Journal (NASSJ)*, https://doi.org/10.1016/j.xnsj.2020.100021, August 2020.

#### Abstracts/Posters

- Sullivan WJ, Zuhosky J. "Opsoclonus-Myoclonus Secondary to Coxsackie B Virus: A Case Study in the Rehabilitation Setting", Poster Presentation 56<sup>th</sup> Annual Assembly Academy of Physical Medicine and Rehabilitation, Orlando, Florida, November 1995. Abstract in *Archives of Physical Medicine and Rehabilitation*, November 1995.
- Prather H, Sullivan WJ, Willick SE, Press JM. "Previous History of Head Injury Reported by School-Aged Athletes at Preparticipation Physicals", Oral Presentation at the American College of Sports Medicine 47<sup>th</sup> Annual Meeting, Indianapolis, Indiana. Abstract in *Medicine and Science in Sports and Exercise*, Vol.30, No. 5 Supplement: S157, 1998.
- Sullivan, WJ, Willick, SE, Chira-Adisia, W, Zuhosky J, Tyburski M, Dreyfuss P, Prather H, Press JM. "Incidence of Intravascular Uptake in Lumbar Spinal Injection Procedures", Platform Presentation at North American Spine Society 14<sup>th</sup> Annual Meeting, October 20-23, 1999, Chicago, Illinois.
- 4. D'Ambrosia C, Tobey J, **Sullivan WJ**, Akuthota V. "Anatomic Basis of Cluneal Neuropathy: A Cadaveric Dissection and Case Correlation", Poster Presentation 65<sup>th</sup> Annual Assembly Academy of Physical Medicine and Rehabilitation, Phoenix, Arizona, October 2004. Abstract in *Archives of Physical Medicine and Rehabilitation*, Vol. 85, September 2004.
- Laker S, Sullivan WJ, Akuthota V. "Complex Regional Pain Syndrome as a Complication of Cervical Epidural Steroid Injection", Poster Presentation Association of Academic Physiatrists, Daytona, Florida, March 2006. Abstract in *American Journal of Physical Medicine and Rehabilitation*.
- Gonzalez P, Akuthota V, Min S, Sullivan WJ. "The Prevalence of Low Back Pain in Recreational Distance Runners", Poster Presentation American College of Sports Medicine 53<sup>rd</sup> Annual Meeting, Denver, Colorado, June 2006. Abstract in *Medicine and Science in Sports and Exercise*, Volume 38, No. 5 Supplement, 2006.
- 7. Sullivan WJ. "Upper Extremity Neurovascular Issues in the Athlete", Abstract in *Medicine and Science in Sports and Exercise*, Volume 38, No. 5 Supplement, 2006.
- Maslowski EL, Akuthota V, Forster-Harwood J, Gonzalez PG, Kaufman MS, Sullivan WJ. "Provocation Tests to Detect Intra-Articular Hip Pain Generators", Poster Presentation 69<sup>th</sup> Annual Assembly American Academy of Physical Medicine and Rehabilitation, San Diego, California, October 2008. Abstract in *Archives of Physical Medicine and Rehabilitation*, Online Volume 89, No. 11, November 2008.
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