

Paul Dreyfuss, M.D.

CURRICULUM VITAE

Personal Data

Birthdate: April 6, 1962

Business Address: Washington Interventional Spine Associates
12301 NE 10th PL, Suite 101
Bellevue, Washington, 98005
(425) 454-1111
Fax: (425) 454-7653
www.spineinjections.org

Academic Positions

Clinical Professor
Department of Rehabilitation Medicine
University of Washington,
Seattle, Washington, 2003-2011

Clinical Professor
Department of Rehabilitation Medicine
University of Texas Health Science Center at
San Antonio (1992-2002)

Clinical Assistant Professor
Department of Family Practice
University of Texas Health Center,
Tyler, Texas 1992

Education

1984 - 1988	M.D., cum laude The Ohio State University	Columbus, Ohio
1980 - 1984	B.S., cum laude The Ohio State University	Columbus, Ohio

Major: Microbiology

Residency

1988 - 1992 Department of Rehabilitation Medicine
University of Texas Health Science Center at
San Antonio (UTHSC)

Previous Employment

Private Practice Spine Specialists
Tyler, Texas (1995-2002)

Private Practice The Neuro-Skeletal Center
Tyler, Texas (1992-1995)

1990 - 1992 Physical Medicine, Electrodiagnosis, and Spine Pain
Consultant, Gonzaba Medical Group, San Antonio, Texas

Licensure

Diplomate of the American Board of Physical Medicine and Rehabilitation 5.19.93
Certificate # 4084, Recertification granted 4.02 and 4.09

Boarded in Pain Medicine through American Board of Physical Medicine and
Rehabilitation 2002

Professional Affiliations

North American Spine Society (NASS)
International Spine Intervention Society (ISIS)
American Academy of Physical Medicine and Rehabilitation (AAPMR)
American Medical Society (AMA)
Washington State Medical Society (WSMA)
King County Medical Society (KCMS)
Puget Sound Spine Interest Group (PSSIG)

Medical Honors/Awards

“Patients’ Choice Physician” 2010, 2011

“Best Doctors in America” 2004-2012

“Washington Best Doctors” 2008, 2010

“Outstanding Paper” for: A Randomized Placebo Controlled Trial of IDET for the
Treatment of Discogenic Low Back Pain, NASS Meeting, 2003

Distinguished Clinician Award from PASSOR, 2001

Richard and Hinda Rosenthal Award from the Academy of Physical Medicine and Rehabilitation and the Rosenthal Foundation, 1996: For "A young physiatrist that has made noteworthy advancements in the research and treatment of low back pain." noted in Archives of Physical Medicine and Rehabilitation 77:1217-1218, 1996

Excellence in Research Writing Award, Association of Academic Physiatrists for "Intercostal Somatosensory Evoked Potentials-A New Technique" noted in Am J Physical Medicine and Rehabilitation 73:148, 1994

Alpha Omega Alpha Membership

Peer Reviewed Publications

A. Chapters

1. **Dreyfuss P:** Thoracic Outlet Syndrome. In Ramamurthy S and Rogers J (eds): Decision Making in Pain Management. B.C. Decker Inc., 1993.
2. **Dreyfuss P:** Cervical Facet Pain. In Ramamurthy S and Rogers J (eds): Decision Making in Pain Management. B.C. Decker Inc., 1993.
3. **Dreyfuss P:** Whiplash. In Ramamurthy S and Rogers J (eds): Decision Making in Pain Management. B.C. Decker Inc., 1993.
4. **Dreyfuss P:** Atlanto-Occipital and Lateral Atlanto-Axial Joint Injections In Lennard T (ed.): Physiatric Procedures in Clinical Practice-Physical Medicine and Rehabilitation-State of the Art Reviews, Hanley and Belfus, 1995, pp 227-237
5. **Dreyfuss P, Lagattuta F, Kaplansky B, Heller B:** Zygapophysial Joint Injection Techniques in the Spinal Axis: In Lennard T (ed.): Physiatric Procedures in Clinical Practice-Physical Medicine and Rehabilitation-State of the Art Reviews, Hanley and Belfus, 1995, pp 206-226
6. Dreyer S, **Dreyfuss P, Cole A:** Zygapophysial (Facet) Joint Injections: Intra-articular and Medial Branch Block Techniques. In Injection Techniques: Principles and Practice. Physical Medicine and Rehabilitation Clinics of North America. (Ed.): Stewart Weinstein, November, 1995, pp 715-741
7. **Dreyfuss P, Cole A, Pauza K:** Sacroiliac Joint Injection Techniques. In Injection Techniques: Principles and Practice. Physical Medicine and Rehabilitation Clinics of North America. (Ed.): Stewart Weinstein, November, 1995, pp 785-813

8. Dreyer S, **Dreyfuss P**, Cole A, Windsor R: Injection Procedures. In *The Low Back Pain Handbook: A Practical Guide for the Primary Care Physician*. Hanley & Belfus, (Eds.) Andrew Cole and Stan Herring, 1996, pp 227-243
9. Cole A, Dreyer S, **Dreyfuss P**: Zygapophysial Joint Pain: A Functional Approach. In *Soft Tissue Injuries; Diagnosis and Treatment*. Hanley & Belfus, Robert Windsor and Dennis Lox (Eds.) 1998, pp 47-64
10. Cole A, **Dreyfuss P**, Stratton S: The Sacroiliac Joint: Principles of Treatment. In *Soft Tissue Injuries; Diagnosis and Treatment*. Hanley & Belfus, Robert Windsor and Dennis Lox (Eds.) 1998, pp 65-83
11. Michaelsen M, **Dreyfuss P**: MUJA: Manipulation Under Joint Anesthesia/Analgesia- A Proposed Interdisciplinary Treatment Approach for Recalcitrant Spinal Axis Pain of Synovial Joint Origin. *Advances in Chiropractic: Yearbook Series Vol 4*, Dana Lawrence, (Ed.) Mosby-Year Book, Inc. 1997, pp 41-68
12. **Dreyfuss P**, Dreyer S: Lumbar Facet Injections. In *The Nonsurgical Management of Acute Low Back Pain: Cutting Through the AHCPR Guidelines*. Demos Vermande Publications, Erwin Gonzales, (Ed.) 1997, pp 123-136
13. Rogers C, Joshi A, **Dreyfuss P**. Cervical Intrinsic Disc Pain and Radiculopathy. In *Whiplash-State of the Art Reviews*, 2nd Edition, Malanga J (Ed.) Hanley and Belfus, Inc, 1998, pp 323-356
14. Dreyer S, **Dreyfuss P**, Cole A. Posterior Elements (Facet and Sacroiliac Joints) and Low Back Pain. Lox Dennis (Ed.: *State of the Art Reviews in Physical Medicine and Rehabilitation: Low Back Pain*, 2nd Edition, Hanley and Belfus, 13:3,1999, pp 443-471
15. **Dreyfuss P**, Kaplan M, Dreyer S. Zygapophysial Joint Injection Techniques in the Spinal Axis. In Lennard T. (ed.) *Pain Procedures in Clinical Practice*, 2nd Edition, Hanley and Belfus, 2000 pp 276-308
16. **Dreyfuss P**, Rogers C. Radiofrequency Neurotomy for Zygapophysial and Sacroiliac Joint Pain. In Lennard T. (ed.) *Pain Procedures in Clinical Practice*, 2nd Edition, Hanley and Belfus, 2000 pp 395-420
17. Pauza K, **Dreyfuss P**. Atlanto-occipital and Atlanto-axial joint Injection Techniques. In Lennard T. (ed.) *Pain Procedures in Clinical Practice*, 2nd Edition, Hanley and Belfus, 2000 pp 309-320

18. Rogers C, **Dreyfuss P**. Spinal Injections for Diagnosis and Treatment. Orthopaedic Knowledge Update Spine 2. American Academy of Orthopaedic Surgeons. Edited by Fardon D et al., pp 193-2004
 19. Dreyer S, **Dreyfuss P**. Injection Therapy. In: Low Back Pain: A Symptom-Based Approach to Diagnosis and Treatment. Rucker K, Cole A, Weinstein S (Eds). Butterworth and Heinemann, Boston, 2001 pp 247-268
 20. Dreyer S, **Dreyfuss P**, Cole A, Windsor R. Injection Procedures. In Low Back Pain Handbook. Second Edition, Eds; Cole A, Herring S. Hanley and Belfus, 2003 pp 277-295
 21. **Dreyfuss P**, Bogduk N. Radiofrequency Neurotomy for Lumbar Zygapophysial Joint Pain. In Encyclopedic Reference of Pain. Edited by Robert Schmidt and William Willis, Springer-Verlag, New York, 2007
- B. Original Research/Case Reports
1. Balmaseda M, Koozekanani S, Fatehi M, Gordon C, **Dreyfuss P**, Tanboliong E: Ground Reaction Forces, Center of Pressure, and Duration of Stance with and Without an Ankle-Foot Orthosis. Arch Phys Med Rehabil 69:1009-1012, 1988
 2. **Dreyfuss P**, Vogel D, Walsh NE: The Use of Transdermal Scopolamine to Control Drooling: A Case Report. Am J Phys Med Rehabil 70:220-222, 1991
 3. Dumitru D, Newton B, **Dreyfuss P**: Segmental V Dermatome Somatosensory Evoked Potentials: Normal Intertrial Variation and Side-to-Side Comparison. Am J Phys Med Rehabil. 72:75-83, 1993
 4. **Dreyfuss P**, Dumitru D, Prewitt-Buchanan L: Intercostal Somatosensory Evoked Potentials: A New Technique. Am J Phys Med Rehabil. 72:144-150, 1993
 5. **Dreyfuss P**, Tibiletti C, Dreyer S, Sobel J: Thoracic Zygapophysial Pain: A Review and Description of an Intra-Articular Block Technique. Pain Digest 4:46-54, 1994
 6. **Dreyfuss P**, Tibiletti C, Dreyer S: Thoracic Zygapophysial Pain Patterns: A Study in Normal Volunteers. Spine 9:807-811, 1994
 7. **Dreyfuss P**, Dreyer S, Griffin J, Hoffman J, Walsh N: Positive Sacroiliac Screening Tests in Asymptomatic Adults: A Prospective, Blinded Study. Spine 19:1138-1143, 1994

8. **Dreyfuss P**, Michaelsen M, Fletcher D: Atlanto-Occipital and Lateral Atlanto-Axial Joint Pain Patterns: A Provocative Study in Normals. *Spine* 19:1125-1131, 1994
9. **Dreyfuss P**, Rogers J, Dreyer S, Fletcher D: Atlanto-occipital Joint Pain: A Report of Three Cases and Description of an Intraarticular Block Technique. *Regional Anaesthesia*. 19:344-351, 1994
10. Reimer D, Halbrook B, **Dreyfuss P**, Tibiletti C: An Effective Pre-Placement Worker Fitness Evaluation in a Material Handling Industry. *Spine* 19:2026-2032, 1994
11. **Dreyfuss P**, Michaelsen M, Horn M: MUJA: Manipulation Under Joint Anesthesia/Analgesia: A Treatment Approach for Recalcitrant Low Back Pain of Synovial Joint Origin. *Journal of Manipulative and Physiologic Therapeutics*, 18(8):537-546, 1995
12. Dumitru D, **Dreyfuss P**: Dermatomal/Segmental Somatosensory Evoked Potential Evaluation of L5/S1 Unilateral/Unilevel Radiculopathy. *Muscle and Nerve*:19:442-449, 1996
13. **Dreyfuss P**, Michaelsen M, Pauza K, McLarty J, Bogduk N, : The Value of History and Physical Examination in Diagnosing Sacroiliac Joint Pain *Spine* 21, 2594-2602, 1996
14. **Dreyfuss P**, Schwarzer A, Lau P, Bogduk N: Specificity of Lumbar Medial Branch and L5 Dorsal Ramus Nerve Blocks: A CT Study. *Spine* 22:895-902, 1997
16. Kaplan M, **Dreyfuss P**, Halbrook B, Bogduk N: The Ability of Lumbar Medial Branch Blocks to Anesthetize the Zygapophysial Joint: A Physiologic Challenge. *Spine* 23:1847-1852, 1998
17. **Dreyfuss P**, Halbrook B, Joshi A, McLarty J, Pauza K, Bogduk N: Efficacy and Validity of Lumbar Medial Branch Radiofrequency Neurotomy for Chronic Zygapophyseal Joint Pain. *Spine* 25:1270-1277, 2000
18. Sullivan W, Willick S, Chira-Adisai W, Zuhosky J, Tyburski M, **Dreyfuss P**, Prather H, Press J: Incidence of Intravascular Uptake in Lumbar Spinal Injection Procedures. *Spine* 25:481-486, 2000
19. **Dreyfuss P**, Snyder BD, Park K, Willard F, Carreiro J, Bogduk N. The Ability of Single Site, Single Depth Sacral Lateral Branch Blocks to Anesthetize the Sacroiliac Joint Complex. *Pain Medicine* 9:844-850, 2008

20. Yin W, Willard F, Carreiro J., **Dreyfuss P**. Sensory Stimulation Guided Sacroiliac Joint Radiofrequency Neurotomy: Technique Based on Neuroanatomy of the Dorsal Sacral Plexus Spine 2003;28:2419-2425
21. Pauza K, Howell S, **Dreyfuss P**, Pelosa J, Dawson K, Bogduk N. A Randomized Placebo-Controlled Trial of intradiscal electrothermal therapy for the treatment of discogenic low back pain. The Spine Journal 2004;4:27-35
22. Baker R, **Dreyfuss P**, Mercer S, Bogduk N .Cervical Transforaminal Injection of Corticosteroids into a Radicular Artery: A Possible Mechanism for Spinal Cord Injury. Pain 2003;103:211-215
23. **Dreyfuss P**, Alexander E, Marquart C, Tencer A. Cervical Intradiscal Radiofrequency Lesioning: A Cadaveric Study. Pain Medicine 2008;9:1016-1021
25. **Dreyfuss P**, Baker R, Bogduk N. Comparative effectiveness of cervical transforaminal injections with particulate and non-particulate preparations for cervical radicular pain. Pain Medicine 2006;7:237-242
26. Lescher J, **Dreyfuss P**, Hager N, Kaplan M, Furman M. Hip joint pain referral patterns: a descriptive study. Pain Medicine 2008;9:22-25
27. **Dreyfuss P**, Cohen S, Bogduk N. Intravenous Sedation and its Effects on Pain following Interlaminar Corticosteroid Only Epidural Steroid Injections. PMR 2009 1:60-63
28. **Dreyfuss P**, Henning T, Malladi N, Goldstein B., Bogduk N The ability of multi site, multi depth sacral lateral branch blocks to anesthetize the sacroiliac joint complex. Pain Medicine 2009 10:679-688
29. Kennedy DJ, **Dreyfuss P**, Aprill C: Paraplegia following fluoroscopically guided transforaminal lumbar spine epidural steroid injection: two case reports and literature review. Pain Medicine 2009 10:1389-1394
30. **Dreyfuss P**, Stout A, Aprill C, Pollei S, Johnson B, Bogduk N. The significance of multifidus atrophy after successful radiofrequency neurotomy for low back pain. PMR 2009 8:719-722
31. Landers M, Bogduk N, **Dreyfuss P**. On the Geometry of Fluoroscopy Views for Cervical Epidural Injections. In Press, Pain Medicine 2012

Review Papers/Standards Papers

1. **Dreyfuss P**, Calodney A: Cervical Facet Pain. Pain Digest. 3:197-201, 1993
2. **Dreyfuss P**, Stratton S: The Low Energy Laser, Electro-Acuscope and Neuroprobe. The Physician and Sports Medicine. 21:47-57,1993; 22:6,15,1994
3. **Dreyfuss P**, Dreyer S: Contemporary Concepts in Spine Care: Lumbar Zygapophysial (Facet) Joint Injections. Spine 20:2040-2047, 1995
3. Dreyer S, **Dreyfuss P**: Low Back Pain and the Zygapophysial (Facet) Joints. Archives of Physical Medicine and Rehabilitation 77:290-300, 1996
4. Cole A, **Dreyfuss P**, Stratton S: The Sacroiliac Joint: A Functional Approach. Critical Reviews in Physical Medicine and Rehabilitation 8 (1&2):125-152, 1996
5. Dreyer S, **Dreyfuss P**. Contemporary Concepts in Spine Care: Lumbar Zygapophysial Joint Injections: an Update 2001. The Spine Journal
6. **Dreyfuss P**, Dreyer S, Mayo K, Bogduk N. Sacroiliac Joint Pain. Journal of the American Academy of Orthopaedic Surgeons. 12:255-265, 2004
7. Schofferman J, Reynolds J, Herzog R, Covington E, **Dreyfuss P**, O'Neill C: Failed back surgery: etiology and diagnostic evaluation. The Spine Journal 2003;3:400-403
8. Bogduk N, **Dreyfuss P**, Baker R, Yin W, Landers M, Hammer M, April C, Complications of spinal diagnostic and treatment procedures. Pain Medicine 2008;9:S11-S34
9. Bogduk N, **Dreyfuss P**, Govind J. A Narrative Review of Lumbar Medial Branch Neurotomy for the Treatment of Back Pain. Pain Med. 2009;10:1035-1045

Contributing Author: Book

1. International Spine Intervention Society: Practice Guidelines-Spinal Diagnostic and Treatment Procedures. ISIS. 2004

Letters to the Editor

1. Bogduk N, **Dreyfuss P**, Henning T. Response to "Branch Blockade of the Dorsal Sacral Rami" Pain Medicine 2010; 11:283
2. Bogduk N, Baker R, **Dreyfuss P**, Mercer S. Transforaminal epidural steroid injections. Pain 2004;109:527-528

3. Lieberman R, **Dreyfuss P**, Baker R; Fluoroscopically Guided Interlaminar Cervical Epidural Injections, Arch Phys Med Rehabil 2003;84:1568
4. **Dreyfuss P**, Baker R. Radiofrequency facet joint denervation in the treatment of low back pain; a placebo controlled clinical trial to assess efficacy. Spine 2002;27:566-567
5. **Dreyfuss P**, Pauza K, Bogduk N. Efficacy and Validity of Radiofrequency Neurotomy for Chronic Lumbar Zygapophysial Joint Pain. Spine 2001;26:E163-164
6. **Dreyfuss P**, Michaelsen M, Pauza K, McLarty J, Bogduk N, : The Value of History and Physical Examination in Diagnosing Sacroiliac Joint Pain Spine 1997 22:1673-1674.
7. Dumitru D, **Dreyfuss P**: Dermatomal/Segmental Somatosensory Evoked Potential Evaluation of L5/S1 Unilateral/Unilevel Radiculopathy. Muscle and Nerve 19:1505-1507, 1996
8. **Dreyfuss P**, Baker R. Treatment of Neck Pain, European Spine J, E-pub, 2008
9. Bogduk N, **Dreyfuss P**, Henning T. Response to “Branch blockade of the dorsal rami” Pain Medicine 2010 11:283

Non-Peer Reviewed Papers

1. **Dreyfuss P**: Epidural Steroid Injections: A Procedure Ideally Performed with Fluoroscopic Control and Contrast Medium. International Spinal Injection Society Bi-Annual Newsletter Volume 1, Number 5, 1993
2. **Dreyfuss P**: Injection of the Spinal Zygapophyseal Joints: A Procedure Ideally Performed with Fluoroscopic Control and Contrast Medium. International Spinal Injection Society Bi-Annual Newsletter Volume 1, Number 6, 1993
3. **Dreyfuss P**, Rogers J, Fletcher D: Atlanto-Occipital Joint Pain. International Spinal Injection Society Bi-Annual Newsletter, 1994
4. **Dreyfuss P**: The Sacroiliac Joint: A Review. International Spinal Injection Society Bi-Annual Newsletter Volume 2, Number 2, 1995
5. Dreyer S, **Dreyfuss P**: Rebuttal to the AHCPH Guidelines on Lumbar Zygapophysial (Facet) Joint Injections. International Spinal Injection Society Bi-Annual Newsletter 1996

6. **Dreyfuss P:** ISIS (International Spinal Injection Society) Atlanto-Occipital, Lateral Atlanto-Axial and Thoracic Zygapophyseal Joint Injection Standards for the ISIS Position Standards Document on Spinal Injection Procedures, 1997
7. **Dreyfuss P.** Thoracic Pain: Differential and Injection Methods. International Spinal Injection Society Bi-Annual Newsletter 1998
8. **Dreyfuss P.** Bevel Power. International Spinal Injection Society Bi-Annual Newsletter 1998
9. **Dreyfuss P.** Interventional Techniques for Lumbar Intrinsic Disc Pain. International Spinal Injection Society Bi-Annual Newsletter 1998
10. **Dreyfuss P.** Curve/CounterCurve: Treatment Options for Refractory Sacroiliac Joint Pain. July/August 2002, pp14-17, SpineLine NASS Publication
11. Baker R, **Dreyfuss P.** Curve/CounterCurve: 2004, Cervical Radicular Pain: Transforaminal vs. Interlaminar Steroid Injections, July/August, pp 16-21, SpineLine NASS Publication

Web Publications

www.spineuniverse.com

Cervical, Thoracic and Lumbar Interlaminar Epidural Steroid Injections 12.07
 Caudal Epidural Steroid Injection 12.07
 Cervical and Lumbar Sympathetic Block 12.07
 Cervical, Thoracic and Lumbar Nerve Root Block 12.07
 Cervical, Thoracic and Lumbar Facet Joint Injections 12.07
 Cervical, Thoracic and Lumbar Medial Branch Blocks 12.07
 Cervical, Thoracic and Lumbar Radiofrequency Neurotomy 12.07
 Sacroiliac Joint Injections 12.07
 Sacroiliac Joint Radiofrequency Neurotomy 12.07
 Cervical, Thoracic and Lumbar Transforaminal Injections 12.07

Non-Academic Publications

Imagery Section of Spine:

Spine 28:24, i, 2003
 Spine 28:14, i, 2003
 Spine 27:20a, i, 2002
 Spine 27:19, i, 2002
 Spine 26, i, 2001

Spine Related Abstracts

Kennedy D, **Dreyfuss P**, Aprill C, Bogduk. Paraplegia following fluoroscopically guided transforaminal lumbar spine epidural steroid injection: two case reports. Pain Medicine 2009;10:950

Willard F, Carreiro J, Yin W, Akuthota V, **Dreyfuss P**, Bogduk N. The dorsal sacral plexus and its relationship to ligaments of the sacroiliac joint. Pain Medicine 2009;10:953

Dreyfuss P, Henning T, Malladi N, Goldstein B, Bogduk N. The Ability of Multi-Site, Multi-Depth Sacral Lateral Branch Blocks to Anesthetize the Sacroiliac Joint Complex: A Physiologic Study. Pain Medicine 9:969-970, 2008

Kaplan M, **Dreyfuss P**, Bogduk N: Lumbar Medial Branch Blocks: A Challenge of Their Effectiveness. Arch Phys Med Rehab 78:1024, 1997

Pauza K, Howell S, **Dreyfuss P**, Pelozo J, Dawson K, Bogduk N. A Randomized, placebo-controlled trial of intradiscal electrothermal therapy (IDET) for the treatment of discogenic low back pain. The Spine Journal 2003;3:94

Grants Awarded

\$3,000 ISIS (International Spinal Injection Society) Grant for Specificity of Lumbar Medial Branch and L5 Dorsal Ramus Nerve Blocks: A CT Study, 1994

\$30,000 ISIS (International Spinal Injection Society) Grant for Lumbar Medial Branch Nerve Radiofrequency Neurotomy: A Pilot Study, 1996

\$5,000 ISIS (International Spinal Injection Society) Grant for Lumbar Medial Branch Blocks: A Challenge of Their Effectiveness. 1997

\$10,000 ISIS (International Spine Injection Society) Grant for Transforaminal Epidural Corticosteroid Injections for L5-S1 Radiculopathy: A Randomized Controlled Trial, 1998

\$6,595 Tyco Grant for Cervical Intradiscal Radiofrequency Lesioning: A Plausibility Study, 2002

\$400,000 ISIS Grant for Lumbar Medial Branch Radiofrequency Neurotomy: A Randomized, Prospective Placebo Trial, 2006

\$18,000 ISIS Grant for The ability of multi site, multi depth sacral lateral branch blocks to anesthetize the sacroiliac joint complex. 2008

Board Position:

2009-2010	Past President, International Spine Intervention Society
2008-2009	President, International Spine Intervention Society
2004-2008	Chairman, Research Committee, International Spine Intervention Society
2007-2010	Puget Sound Spine Interest Group: Secretary
2010- 2011	Overlake Surgery Center, Bellevue, WA
2009-2011	www.spineuniverse.com (Editorial Board)

Meeting Chairmanships:

2009	Co-Chair of the Annual Meeting: International Spine Intervention Society
2008	Co-Chair of the Annual Meeting: International Spine Intervention Society
2007	Co-Chair of the Annual Meeting: International Spine Intervention Society
2006	Chairman of the Annual Meeting: International Spine Intervention Society

Committees

Chair-Noridian Administrative Service (NAS) Medical Advisory Committee on Spine Interventions 2010-2011

Multi-Society Task Force in Response to WA HCA/HTCC Evidence Report on Spine Injections 2010

NASS: Professional, Economic & Regulatory Committee 2010-2011

Annual Program Committee: International Spine Intervention Society-2006-2011

Puget Sound Spine Interest Group (PSSIG), Secretary, 2009-2010

Credentials Committee, Overlake Hospital, 2004-2005

Board of Directors, Overlake Surgery Center, 2010-current

Medical Executive Committee, Overlake Surgery Center, 2003-2009

Awards and Research Committees: PASSOR 1998-2000

Research Committee: ISIS (International Spinal Injection Society) 1996-2010

Coding Committee: NASS (North American Spine Society):1999-2000

AAPM&R Coding Committee: served as delegate to the RUC committee of the AMA to assist in determining RVUs for CPT 2000 injection codes

East Texas Medical Center Hospital, Tyler, Texas: Section Chief Pain Management: 1999-2001

East Texas Medical Center Hospital, Tyler, Texas: Patient Care Policies Committee: 1999-2001

Abstract Reviewer

North American Spine Society Annual Meeting-Diagnostics/Imaging: 2004, 2007-2008

International Spine Intervention Society Annual Meeting- 2005-2009

Editorial Review

Pain Medicine 2007-2011 (Editorial Board Member)

Journal of Clinical Anesthesia 2007 (Invited Reviewer)

PMR 2008-2010 (Invited Reviewer)

American Journal of Physical Medicine and Rehabilitation 2007 (Invited Reviewer)

BMC Musculoskeletal Disorders 2007-2008 (Invited Reviewer)

Spine 1999-2000 (Invited Reviewer)

Clinical Journal of Pain 1995-2000 (Invited Reviewer)

Archives of Physical Medicine and Rehabilitation 1997-2000, 2007 (Invited Reviewer)

Medico-legal Consulting

Expert witness consultant on malpractice suits regarding 1) cervical interlaminar and transforaminal epidural steroid injections, 2) lumbar radiofrequency interspinous ligament neurotomy, 3) cervical "paravertebral nerve blocks", 4) lumbar transforaminal

epidural steroid injections, 5) cervical medial branch neurotomy, 6) lumbar medial branch radiofrequency neurotomy and 7) lumbar facet injections.

Medical Reviewer of Contested Claims

Maximus Federal Services 2010-2011

Consultant

Oakworks Medical 2010-2011; Concept Originator for the SPS (Spine Positioning System)

GE Healthcare 2011

RS Medical 2011

Acromed-Dupuy 2002-2003, 2006

Spine Elements 2007-2008

Baylis Medical/Kimberly Clark 2007-2009; Concept Originator for the Radio-opaque active tip band for RF needles, Assisted in project design for SInergy

Spinal Restoration 2008

Johnson and Johnson, Restorative Division 2008

Smith and Nephew 2008

Invited National/International Presentations

- | | |
|------|---|
| 2011 | Lumbar Medial Branch Radiofrequency Lesioning-Optimal Selection and Lesioning Techniques, International Spine Intervention Society, Annual Scientific Meeting, Chicago, IL |
| 2011 | Sacroiliac Joint Complex Pain: Diagnosis and Treatment, Harvard Medical School/Spaulding Rehabilitation Hospital, Research and Education Day, Boston, MA |
| 2010 | Lumbar Medial Branch Blocks and Lumbar Medial Branch Radiofrequency Lesioning Techniques, American Academy of Physical Medicine and Rehabilitation, Annual Meeting, Seattle, WA |
| 2010 | Radiofrequency Lesioning Techniques: Cooled RF Applications for Sacroiliac Joint Pain, Pfiedler Enterprises, Las Vegas, NV |

- 2010 Cervical Injection Complications: Pre-Conference Symposium, International Spine Intervention Society, Maui, HI
- 2009 Presidential Address-“Integrity in Spine Interventions”, International Spine Intervention Society, Toronto, Canada
- 2009 Radiofrequency Lesioning Techniques: Cooled RF Applications for Sacroiliac Joint Pain, Pfiedler Enterprises, San Diego, CA
- 2009 Cervical Injection Complications: Cervical Bioskills Lab, International Spine Intervention Society, Denver, CO
- 2009 Indications and Techniques: Cervical and Lumbar RF, International Spine Intervention Society Bioskills Lab, Orlando, FL
- 2009 Complications: Cervical and Lumbar RF, International Spine Intervention Society Bioskills Lab, Orlando, FL
- 2008 Interventional Treatment of Cervicogenic Headache, International Spine Intervention Society, Las Vegas, NV
- 2008 Sacroiliac Joint Pain: Interventional Options. Invited Arthur Grant Lectureship, Department of Rehabilitation Medicine, University of Texas Health Science Center, San Antonio, TX
- 2008 Radiofrequency Lesioning Techniques: Cervical, Thoracic and Lumbar Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, Pfiedler Enterprises, Seattle, WA
- 2007 Radiofrequency Lesioning: Cervical and Lumbar Zygapophysial Denervation and Literature Review, ISIS, Dallas, TX
- 2007 IV Sedation for Spinal Injection Procedures: The Benefits, ISIS Annual Scientific Meeting, Baltimore, Maryland
- 2007 Radiofrequency Lesioning Techniques: Cervical and Thoracic Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, Pfiedler Enterprises, Seattle, WA
- 2007 Radiofrequency Lesioning Techniques: Cooled RF Applications for Sacroiliac Joint Pain, Pfiedler Enterprises, Seattle, WA and Orlando, FL
- 2007 Radiofrequency Lesioning Techniques: Cervical and Thoracic Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, Pfiedler Enterprises, Las Vegas, NV

- 2006 Radiofrequency Lesioning Techniques: Cervical and Thoracic Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, Pfiedler Enterprises, Phoenix, AR
- 2006 Cervical Radicular Pain: Epidural Steroid Injections. Cervical Radicular Pain Symposium, NASS Annual Meeting, Seattle, WA
- 2006 Sacroiliac Joint Pain: A Review. American Osteopathic College Physical Medicine & Rehabilitation: A Pain Medicine Potpourri. Seattle, WA
- 2006 Radiofrequency Lesioning Techniques: Cervical and Lumbar Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, Pfiedler Enterprises, Chicago, IL
- 2005 Radiofrequency Lesioning Techniques: Cervical, Thoracic, Lumbar Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, ISIS Radiofrequency Neurotomy, Muenster, Germany
- 2005 Radiofrequency Lesioning Techniques: Cervical, Thoracic, Lumbar Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, Pfiedler Enterprises, San Francisco, CA
- 2005 Radiofrequency Lesioning Techniques: Cervical, Thoracic, Lumbar Medial Branch and Sacral Lateral Branch Neurotomy: Literature Review and Precise Lesioning Techniques, Pfiedler Enterprises, Phoenix, AR
- 2005 Radiofrequency Neurotomy for Cervical, Lumbar and Sacroiliac Joint Pain: A Critical Review, ISIS Annual Meeting, NY, NY
- 2005 Radiofrequency Techniques for Cervical, Thoracic and Lumbar Zygapophysial Joint Pain and Sacroiliac Joint Pain, Kimberly-Clark Cadaveric Workshop, Phoenix, AR
- 2004 Radiofrequency Techniques for Cervical, Thoracic and Lumbar Zygapophysial Joint Pain and Sacroiliac Joint Pain, Kimberly-Clark Cadaveric Workshop, Phoenix, AR
- 2004 Radiofrequency Techniques for Cervical, Thoracic and Lumbar Zygapophysial Joint Pain and Sacroiliac Joint Pain, ISIS Cadaveric Workshop, Memphis, TN
- 2004 Radiofrequency Techniques for Cervical, Thoracic and Lumbar Zygapophysial Joint Pain and Sacroiliac Joint Pain, Radionics Cadaveric Workshop, Seattle, WA

- 2004 Diagnosis and Treatment of Discogenic Pain Established Via Discography, ISIS Cadaveric Workshop, San Francisco, CA
- 2003 Thoracic Synovial Joint Injection and Radiofrequency Techniques, ISIS, Annual Meeting, Orlando, Florida
- 2002 Sacroiliac Joint Injection Standards, ISIS Annual Meeting, Orlando, Florida
- 2002 Zygapophysial Joint, Sacroiliac Joint and Spinal Nerve Injections, NASS Symposium on Failed Back Surgery, Montreal, Canada
- 2002 Cervical Injection Procedures for Axial Neck Pain, PASSOR Annual Meeting, Orlando, Florida
- 2001 Cervical Injection Techniques: ISIS Cadaveric Injection Workshop, New Orleans, Louisiana
- 2001 Cervical Injection Techniques: PASSOR Cadaveric Injection Workshop, New Orleans, Louisiana
- 2001 Thoracic Injection Techniques: PASSOR Cadaveric Injection Workshop, New Orleans, Louisiana
- 2001 Sacroiliac Joint Pain States: A Review With Emphasis on Injection Techniques, Puget Sound Spine Interest Group, Seattle, Washington
- 2000 Thoracic Injection Techniques: PASSOR Cadaveric Injection Workshop, New Orleans, Louisiana
- 2000 Thoracic Injection Techniques: PASSOR Cadaveric Injection Workshop, San Francisco, California
- 1999 Sacroiliac Pain States: Diagnosis and Treatment. Presented to the American Academy of Orthopedic Medicine, Las Vegas, Nevada
- 1999 Zygapophysial Joint Pain in the Spinal Axis. Presented to the American Academy of Orthopedic Medicine, Las Vegas, Nevada
- 1998 Technical Aspects of Cervical Injection Procedures. PASSOR Cadaveric Injection Workshop, Seattle, Washington
- 1998 Cervical Injection Procedures: Principles and Practice. American Academy of Physical Medicine and Rehabilitation, Seattle, Washington

- 1998 Lumbar Intervetebral Disc Disease. Rehabilitation Institute of Chicago, Chicago, Illinois
- 1998 Lumbar Zygapophysial Joint, Sacroiliac Joint and Nerve Root Block Techniques. International Spinal Injection Society (ISIS) Advanced Lumbar Cadaveric Workshop, Chicago, Illinois
- 1998 Lumbar Facet Pain. Back and Neck Pain, University of Calgary, Banff, Canada
- 1998 Sacroiliac Joint Pain. Back and Neck Pain, University of Calgary, Banff, Canada
- 1998 Intrinsic Lumbar Disc Pain. Back and Neck Pain, University of Calgary, Banff, Canada
- 1998 Epidural Steroid Injections. Back and Neck Pain, University of Calgary, Banff, Canada
- 1997 Percutaneous Therapeutic Techniques for Intrinsic Disc Pain in the Lumbar Spine. American Acedemy of Physical Medicine and Rehabilitation, Atlanta, Georgia
- 1997 Epidural Steroid Injections: A Critical Review. ISIS (International Spinal Injection Society) Annual Scientific Meeting, Denver, CO
- 1997 Thoracic Injection Techniques. PASSOR Mid-year Cadaveric Workshop, New Orleans, LO
- 1997 Lumbar Zygapophysial and Sacroiliac Joint Pain. International Spinal Injection Society (ISIS) Advanced Lumbar Cadaveric Workshop
- 1997 Intrinsic Disc Pain. The Aging Spine-Pain of Spinal Origin. Philadelphia, PA
- 1997 Epidural Steroid Injections. The Aging Spine-Pain of Spinal Origin. Philadelphia, PA
- 1997 Lumbar Facet Pain. The Aging Spine-Pain of Spinal Origin. Philadelphia, PA
- 1997 Sacroiliac Joint Pain. The Aging Spine-Pain of Spinal Origin. Philadelphia, PA

- 1996 Rosenthal Acceptance Speech: "Diagnosis Driven Spine Care in the 21st Century". American Academy of Physical Medicine and Rehabilitation, Chicago, Illinois
- 1996 MUJA: Manipulation Under Joint Anesthesia/Analgesia. American Academy of Physical Medicine and Rehabilitation, Chicago, Illinois
- 1996 Posterior Column Injection Techniques from the AO to the SI Joints. Physiatric Procedures; Southern PM&R Society, Charleston, South Carolina
- 1996 Thoracic Diagnostic and Therapeutic Injection Techniques. PASSOR (Physiatric Association of Spine, Sports and Occupational Rehabilitation) Mid-year Educational/Scientific Meeting, New Orleans, Louisiana
- 1996 Rebuttal to the AHCPR Guidelines on Acute Low Back Pain: Facet Injections. Association of Academic Physiatrists (AAP), Las Vegas, Nevada
- 1995 MUJA: Manipulation Under Joint Anesthesia/Analgesia. The 2nd Integrated Function of the Lumbar Spine and the Sacroiliac Joint, San Diego, California
- 1995 Sacroiliac Joint Pain. International Spinal Injection Society (ISIS) 3rd Annual Scientific Meeting, New Orleans, Louisiana
- 1995 MUJA: Manipulation Under Joint Anesthesia/Analgesia. International Spinal Injection Society (ISIS) 3rd Annual Scientific Meeting, New Orleans, Louisiana
- 1995 Sacroiliac Joint Pain: A Review, International Spinal Injection Society (ISIS) Advanced Lumbar Cadaveric Injection Workshop, San Francisco, California
- 1995 Lumbar Zygapophysial Joint Mediated Pain: A Review, Third Annual "Expanding Your Pain Practice", University of Louisville, New Orleans, Louisiana
- 1995 Sacroiliac Joint Pain: A Collaborative Approach, Third Annual "Expanding Your Pain Practice", University of Louisville, New Orleans, Louisiana
- 1995 MUJA: Manipulation Under Joint Anesthesia/Analgesia, Third Annual "Expanding Your Pain Practice", University of Louisville, New Orleans, Louisiana

- 1995 Cervical Zygapophysial Joint Pain, International Spinal Injection Society
- 1994 (ISIS) Cervical and Thoracic Cadaveric Injection Workshop, San Francisco, California
- 1994 Atlanto-Occipital and Lateral Atlanto-Axial Joints: Pain Patterns and Injection Techniques, International Spinal Injection Society (ISIS): Localizing Cervical and Thoracic Pain, Minneapolis, Minn
- 1994 Thoracic Zygapophysial Joints: Pain Patterns and Injection Techniques, International Spinal Injection Society (ISIS): Localizing Cervical and Thoracic Pain, Minneapolis, Minn
- 1994 The Sacroiliac Joint: Physical Examination Techniques, Focus Session, American Academy of Physical Medicine and Rehabilitation, Anaheim, Calif.

Paper Presentations

- 2009 Paraplegia following fluoroscopically guided transforaminal lumbar spine epidural steroid injection: two case reports. International Spine Intervention Society, Toronto, Canada
- 2009 The dorsal sacral plexus and its relationship to ligaments of the sacroiliac joint. International Spine Intervention Society, Toronto, Canada
- 2008 The ability of multi-site, multi-depth sacral lateral branch blocks to anesthetize the sacroiliac joint complex: a physiologic study. International Spine Intervention Society, Las Vegas, LV
- 2006 Comparative effectiveness of cervical transforaminal injections with particulate and non-particulate preparations for cervical radicular pain. International Spine Intervention Society, Salt Lake City, UT
- 2003 Cervical Intradiscal Radiofrequency Lesioning: A Plausibility Study, International Spinal Injection Society, Orlando, Florida
- 2003 Randomized, placebo-controlled trial of intradiscal electrothermal therapy (IDET) for the treatment of discogenic low back pain, NASS, San Diego, California and ISSLS, Vancouver, Canada
- 2002 A Randomized Placebo Controlled, Double-Blind Trial of the Efficacy of IDET, International Spinal Injection Society, San Antonio, Texas
- 2000 Target Specificity of Sacral Lateral Branch Injections: A CT Study.

International Spinal Injection Society Annual Scientific Meeting, San Francisco, California

- 2000 Ability of Sacral Lateral Branch Blocks to Anesthetize the Sacroiliac Joint: A Randomized, Double Blinded Controlled Trial. International Spinal Injection Society Annual Scientific Meeting, San Francisco, California
- 2000 Multifidi Muscle Mass Changes after Unilateral Medial Branch Radiofrequency Neurotomy: A MRI Study. International Spinal Injection Society Annual Scientific Meeting, San Francisco, California
- 1999 Efficacy and Validity of Lumbar Medial Branch Radiofrequency Neurotomy for Chronic Zygapophyseal Joint Pain. North American Spine Society Annual Scientific Meeting, Chicago, IL
- 1998 Lumbar Medial Branch Nerve Radiofrequency Neurotomy for Chronic Zygapophyseal Joint Pain Using Dual Medial Branch Blocks: A Pilot Study. 4th Annual International Neuromodulation Society Conference, Lucerne, Switzerland
- 1997 Lumbar Medial Branch Blocks: A Challenge of Their Effectiveness. American Academy of Physical Medicine and Rehabilitation, Atlanta, Georgia
- 1997 Lumbar Medial Branch Blocks: A Challenge of Their Effectiveness. ISIS (International Spinal Injection Society) Annual Scientific Meeting, Denver, CO
- 1997 Lumbar Medial Branch Neurotomy for Recalcitrant Lumbar Zygapophysial Joint Pain: A Pilot Study of its Effectiveness. ISIS (International Spinal Injection Society) Annual Scientific Meeting, Denver, CO
- 1996 The Value of History and Physical Examination in the Diagnosis of Saroiliac Joint Pain as Determined by an Intra-articular Block. PASSOR (Physiatric Association of Spine, Sports and Occupational Rehabilitation) Mid-year Educational/Scientific Meeting, New Orleans, Louisiana
- 1995 The Value of History and Physical Examination in the Diagnosis of Saroiliac Joint Pain as Determined by an Intra-articular Block. The Integrated Function of the Lumbar Spine and the Sacroiliac Joint, San Diego, California
- 1995 The Value of History and Physical Examination in the Diagnosis of Saroiliac Joint Pain as Determined by an Intra-articular Block.

International Spinal Injection Society (ISIS) 3rd Annual Scientific Meeting, New Orleans, Louisiana

- 1995 The Target Specificity of Lumbar Medial Branch and L5 Dorsal Ramus Blocks: A CT Study. International Spinal Injection Society (ISIS) 3rd Annual Scientific Meeting, New Orleans, Louisiana
- 1995 The Target Specificity of Lumbar Medial Branch and L5 Dorsal Ramus Blocks: A CT Study. Keystone Spine Meeting, Keystone, Colorado
- 1993 Thoracic Zygapophysial Joint Pain Patterns: A Study in Normal Volunteers. Presented at the 8th Annual North American Spine Society Meeting, San Diego, California
- 1993 Atlanto-Occipital and Atlanto-Axial Joint Pain Patterns: A Study in Normal Volunteers. Presented at the 8th Annual North American Spine Society Meeting, San Diego, California
- 1993 An Effective Pre-Placement, Worker Fitness Evaluation in a Material Handling Industry. Presented at the 8th Annual North American Spine Society Meeting, San Diego, California
- 1990 The Use of Transdermal Scopolamine to Control Drooling: A Case Report. Presented at the National Clinical Dysarthria Conference, San Antonio, Texas

Poster Presentations

- 1992 Positive Sacroiliac Screening Tests in Asymptomatic Adults: A Prospective, Blinded Study. Presented at the First Interdisciplinary World Congress on Low Back Pain and its Relation to the Sacroiliac Joint, San Diego, California.
- 1990 The Use of Transdermal Scopolamine to Control Drooling: A Case Report. Presented at the American Academy of Physical Medicine and Rehabilitation, Phoenix, Arizona
- 1987 Ground Reaction Forces, Center of Pressure, and Duration of Stance with and without an Ankle-Foot Orthosis. Presented at the American Academy of Physical Medicine and Rehabilitation, Orlando, Florida

Faculty Positions in Continuing Education

- 2003-2011 Teaching of Residents in the Department of Rehabilitation Medicine and Department of Anesthesia and Pain Medicine, University of Washington, Seattle, Washington
- 2003-2010 Teaching of Fellows in the Department of Anesthesia and Pain Medicine, University of Washington, Seattle, Washington
- 1998-1999 Teaching of Residents in the Department of Family Practice from University of Texas Health Center, Tyler, Texas
- 1992-1999 Teaching of Residents and Fellows in the Departments of Rehabilitation Medicine and Anesthesia (Pain Management Fellowship Program) from University of Texas Health Science Center, San Antonio, Texas
- 1993-1994 Director, Non-Surgical, Interventional Spine Fellowship Program:
1 graduate
- 1996-1998 3 graduates
- 2000-2001 3 graduates
- 2010-2011 Developed updated standard lectures for Cervical and Lumbar Zygapophysial and Sacroiliac Joint RF Neurotomy-Literature, Techniques and Complications
- 2010 Sacroiliac Joint Pain Review and Cooled RF Neurotomy, Kimberly-Clark, Las Vegas, NV
- 2009 Radiofrequency Lesioning Techniques: Cooled RF Applications for Sacroiliac Joint Pain, Pfiedler Enterprises, San Diego, CA
- 2009 International Spine Intervention Society, Cervical Injection Procedures, Denver, CO
- 2009 International Spine Intervention Society, RF Neurotomy for Cervical and Lumbar Zygapophysial Joint Pain, Orlando, FL
- 2008 Kimberly-Clark: Radiofrequency Neurotomy for Cervical, Thoracic and Lumbar Zygapophysial Joint Pain, Las Vegas, NV
- 2008 Kimberly-Clark: Sacroiliac Joint Pain Review and Cooled RF Neurotomy, Las Vegas, NV
- 2008 Kimberly-Clark: Radiofrequency Neurotomy for Cervical, Thoracic and Lumbar Zygapophysial Joint Pain, Dallas, TX

- 2008 Kimberly-Clark: Sacroiliac Joint Pain Review and Cooled RF Neurotomy, Dallas, TX
- 2007 ISIS, Radiofrequency Neurotomy for Cervical and Lumbar Zygapophyseal Joint Pain, Dallas, TX
- 2007 Kimberly-Clark: Cooled RF Neurotomy Technique for Sacroiliac Joint Pain Syndromes, Orlando, FL
- 2007 Kimberly-Clark: Cooled RF Neurotomy Technique for Sacroiliac Joint Pain Syndromes, Las Vegas, NV
- 2007 Kimberly-Clark: Radiofrequency Neurotomy Techniques Cervical/Thoracic/Lumbar, Seattle, WA
- 2007 Kimberly-Clark: Cooled RF Neurotomy Technique for Sacroiliac Joint Pain Syndromes, Seattle, WA
- 2007 Kimberly-Clark: Radiofrequency Neurotomy Techniques Cervical/Thoracic/Lumbar, Las Vegas, NV
- 2006 ISIS: Radiofrequency Neurotomy Techniques: Cervical/Lumbar, Boston, MS
- 2006 Kimberly-Clark: Radiofrequency Neurotomy Techniques Cervical/Thoracic/Sacroiliac, Phoenix, AR
- 2006 Kimberly-Clark: Radiofrequency Neurotomy Techniques Lumbar/Cervical/Sacroiliac, Chicago, IL
- 2005 ISIS Radiofrequency Neurotomy Techniques, Muenster, Germany
- 2005 Kimberly-Clark: Radiofrequency Neurotomy Techniques, San Francisco, CA
- 2005 Kimberly-Clark: Radiofrequency Neurotomy Techniques, Phoenix, AR
- 2004 Radionics: Radiofrequency Neurotomy Techniques, Bellevue, WA
- 2004 ISIS Cadaveric Radiofrequency Techniques, Memphis
- 2004 ISIS Cadaveric Discography Procedures, San Francisco
- 2004 Kimberly-Clark: Radiofrequency Neurotomy Techniques, Phoenix

- 2003 Public Auto Insurance of Manitoba-Private Course on Cervical Medial Branch Radiofrequency Neurotomy-Solo Instructor
- 2003 NASS Cadaveric Lumbar Procedures, Memphis
- 2003 ISIS Cadaveric Masters Injection Course, Memphis
- 2002 NASS Lumbar Injection Procedures:Cadaveric Workshop
- 2002 PASSOR Injection Workshop, Orlando, Florida
- 2001 International Spinal Injection Society Cadaveric Injection Workshop: Cervical/Thoracic Spine
- 2001 PASSOR Cadaveric Injection Workshop: Spinal Axis
- 2000 PASSOR Cadaveric Injection Workshop: Spinal Axis
- 2000 International Spinal Injection Society Cadaveric Workshop: Advanced Level Lumbar Spine
- 1999 International Spinal Injection Society Cadaveric Workshop: Advanced Cervical and Thoracic Injection Techniques
- 1998 PASSOR Cadaveric Injection Workshop: Spinal Axis
- 1998 International Spinal Injection Society Cadaveric Workshop: Advanced Level Lumbar Spine
- 1998 International Spinal Injection Society Cadaveric Workshop: Entry Level Lumbar Spine
- 1997 PASSOR Cadaveric Injection Workshop: Thoracic/Lumbar Spine
- 1997 International Spinal Injection Society Cadaveric Workshop: Advanced Lumbar Spine
- 1996 International Spinal Injection Society Cadaveric Workshop: Cervical/Thoracic Spine
- 1995 International Spinal Injection Society Cadaveric Workshop:
- 1995 International Spinal Injection Society Cadaveric Workshop: Advanced Lumbar Techniques

- 1994 International Spinal Injection Society Cadaveric Workshop:
Cervical/Thoracic Spine
- 1993 International Spinal Injection Society Cadaveric Workshop:
Cervical/Thoracic Spine

Invited Local Presentations

- 2011 Update on Advanced Treatment Techniques for Sacroiliac Joint Pain. Puget Sound Spine Interest Group (PSSIG), Seattle, Washington
- 2010 Cervicogenic Headache-Interventional Techniques. Department of Rehabilitation Medicine. University of Washington, Seattle, WA
- 2010 Cervical Synovial Joint Pain: Diagnosis and Treatment, WA Association of Neurological Surgeons Annual Meeting, Winthrop, WA
- 2010 A Day in the Pain Room. Sponsored by the Evergreen Surgery Center, Eastside Ambulatory Surgery Centers Alliance, Kirkland, WA
- 2009 Cervical Facet Pain, Cervical Pain and Upper Limb Neural Tension, Sponsored by Department of Physical Medicine and Rehabilitation Medicine, University of Washington, Seattle, WA
- 2009 Diagnosis and Treatment of Cervicogenic Headache, Puget Sound Spine Interest Group, Seattle, WA
- 2008 Cervicogenic Headache: Treatment. Washington Association of Interventional Spine Physicians, Seattle, Washington
- 2008 Update on Advanced Treatment Techniques for Sacroiliac Joint Pain. Washington Association of Interventional Spine Physicians, Seattle, Washington
- 2008 Integrating Spinal Injections with Manual Therapy, International Manual Therapy, Bellevue, Washington
- 2007 Advanced Treatment Techniques for Sacroiliac Joint Pain. Washington Association of Interventional Spine Physicians, Seattle, Washington
- 2006 Cervical Epidural Steroid Injections. Washington Association of Interventional Spine Physicians, Seattle, Washington
- 2006 Sacroiliac Joint Pain. Department of Rehabilitation Medicine, University of Washington, Seattle, Washington

- 2005 Discography: A Critical Review, Washington Association of Interventional Pain Physicians, Seattle, WA
- 2005 Diagnosis and Treatment of Discogenic Pain: A Critical Review. Washington Association of Independent Medical Examiners, Seattle, Washington
- 2005 Diagnosis and Treatment of Discogenic Pain: A Critical Review. Department of Rehabilitation Medicine, University of Washington, Seattle, Washington
- 2005 Sacroiliac Joint Pain: A Critical Review. University of Washington, Department of Anesthesia, Seattle, WA
- 2005 Sacroiliac Joint Pain: A Critical Review. Puget Sound Spine Interest Group, Seattle, Washington
- 2004 Radiofrequency Neurotomy for Zygapophysial Joint Pain, University of Washington, Department of Anesthesia, Seattle, WA
- 2004 Lumbar Discography and Treatment of Discogenic Pain: A Critical Review. Puget Sound Spine Interest Group, Seattle, Washington
- 2003 Radiofrequency Neurotomy for Zygapophysial Joint Pain, Eastside Musculoskeletal Group, Bellevue, Washington
- 2002 Lumbar Injection Procedures-Evidence Based Approach, University of Washington, Seattle, Washington
- 2002 “Lumbar Injection Procedures”, Overlake Medical Center, Bellevue, Washington
- 2001 “Epidural Steroid Injections”. ETMC Neurological Institute, Monthly Spine Conference Study Group, Tyler, Texas
- 2000 “Cervical Injection Procedures: Literature Review”. ETMC Neurological Institute, Monthly Spine Conference Study Group, Tyler, Texas
- 1999 “Low Back Pain: Treatment Options” Presented to the Departments of Internal Medicine and Family Practice, University of Texas Health Center, Tyler, Texas

- 1999 Sacroiliac Joint Pain: Current Knowledge” Presented to the Monthly Spine Conference Study Group, ETMC Neurological Institute, Tyler, Texas
- 1999 Thoracic Pain: A Review. ETMC Neurological Institute, Monthly Spine Conference Study Group, Tyler, Texas
- 1999 “Low Back Pain: Diagnosis and Pathophysiology” Presented to the Departments of Internal Medicine and Family Practice, University of Texas Health Center, Tyler, Texas
- 1999 “The Sacroiliac Joint: What is the Truth?” Presented to the Dallas-Forth Worth Spine Study Group, Dallas, Texas
- 1999 “Cervical Pain States-Diagnosis and Treatment” Presented to the Medical Staff at ETMC Jacksonville, Jacksonville, Texas
- 1998 "Low Back Pain-A Critical Appraisal of the Literature" Presented to the East Texas Worker's Compensation Adjusters, ETMC, Tyler, Texas
- 1998 “Low Back Pain-Pathophysiology and Clinical Diagnosis” Presented to the Department of Occupational Medicine, University of Texas Health Center, Tyler, Texas
- 1997 "Low Back Pain" Presented to the Medical Staff of East Texas Medical Center Hospital, Tyler, Texas
- 1997 “Low Back Pain" Presented to the Medical Staff of Athens ETMC Hospital, Athens, Texas
- 1996 "Thoracic Pain-Differential Diagnosis" Presented to NeuroSurgery Grand Rounds, Tyler, Texas.
- 1995 "MUJA: Manipulation Under Joint Anesthesia/Analgesia: A Collaborative Treatment Approach for Low Back Pain of Synovial Joint Origin" Presented to the Spine and Joint Institute, Tyler, Texas.
- 1995 "Lumbar Facet Pain: A Criticial Appraisal of the Literature" Presented to NeuroSurgery Grand Rounds, Tyler, Texas.
- 1994 "What do we really know about the Sacroiliac Joint?" Presented to The East Texas Spine Interest Group, Tyler, Texas.
- 1994 "A Physiatrist's Approach to Mechanical Neck Pain". Presented to the Department of Physical Medicine and Rehabilitation, Baylor, University, Dallas, Texas

- 1993 "Selective Spinal Axis Injections-A Technical Review". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas
- 1993 "A Manual Medicine Approach to Neck Pain". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas
- 1993 "The Sacroiliac Joint-A Manual Medicine Approach". Presented to Santa Rosa Hospital Department of Rehabilitation, San Antonio, Texas
- 1993 "Thoracic Facet Pain-Combined Allopathic and Chiropractic Care". Presented to the East Texas Spine Society, Tyler, Texas
- 1993 "Cervical Facet Pain-Emphasis on the Upper Cervical Complex". Presented to Texas Back Institute, Plano, Texas
- 1993 Sacroiliac Pain-Combined Allopathic and Chiropractic Care".
- 1993 Presented to the Department of Physical Medicine and Rehabilitation, Baylor University, Dallas, Texas
- 1993 "Cervical Facet Pain-Combined Allopathic and Chiropractic Care". Presented to the East Texas Chiropractic Society, Longview, Texas
- 1993 "Neck Pain". Presented to the Henderson County Medical Society, Athens, Texas.
- 1993 "Electrodiagnosis: An Overview". Presented to The Medical-Surgical Clinic, Tyler, Texas.
- 1993 "The Sacroiliac Joint: A Review". Presented to The East Texas Spine Interest Group, Tyler, Texas.
- 1992 "Cervical Facet Pain-Aggressive Non-Surgical Care". Presented to the Medical Staff of Hopkins County Hospital, Sulfer Springs, Texas.
- 1992 "Cervical Facet Pain-Aggressive Non-Surgical Care". Presented to The East Texas Spine Interest Group, Tyler, Texas.
- 1992 "Thoracic Facet Pain". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas.
- 1992 "Lumbar Facet Dysfunction". Presented to the Department of Physical Therapy, UTHSC, San Antonio, Texas.

- 1992 "The Sacroiliac Joint". Presented to Pain Clinic, Department of Anesthesiology, UTHSC, San Antonio, Texas.
- 1991 "Lumbar Injection Procedures". Presented to Employees of Alamo Physical Therapy Resources, Inc., San Antonio, Texas.
- 1991 "Low Back Pain". Presented to Employees of the Audie L. Murphy Veterans Administration Hospital, Quarterly Back School Series, San Antonio, Texas.
- 1991 "Cervical Facet Pain". Presented to Pain Clinic, Department of Anesthesiology, UTHSC, San Antonio, Texas.
- 1991 "Failed Back Surgery Syndrome". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas.
- 1991 "Plexopathies - Clinical and Electrodiagnostic Features". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas.
- 1991 "Unusual Conduction Studies". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas.
- 1991 "Idiopathic Brachial Neuritis". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas.
- 1991 "Cervical Radiculopathy". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas.
- 1990 "Cervical Injection Procedures". Presented to Pain Clinic, Department of Anesthesiology, UTHSC, San Antonio, Texas.
- 1989 "The Cervical Spine in Rheumatoid Arthritis". Presented to Department of Rheumatology, UTHSC, San Antonio, Texas.
- 1989 "Examination of the Low Back Pain Patient". Presented to Department of Rheumatology, UTHSC, San Antonio, Texas.
- 1989 "Exercise Testing". Presented to the Department of Rehabilitation Medicine, UTHSC, San Antonio, Texas.