

Nathan J. Rudin, M.D., M.A.

Personal Data

University of Wisconsin School of Medicine and Public Health
Department of Orthopedics and Rehabilitation
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Education

Undergraduate

Bachelor of Arts, *summa cum laude* with Distinction in Psychology, May 1986
Boston University, Boston, Massachusetts

Graduate/Medical School

Master of Arts, Psychology, May 1987
Boston University, Boston, Massachusetts

Doctor of Medicine, May 1991
Johns Hopkins University School of Medicine, Baltimore, Maryland

Residency

Residency - Physical Medicine and Rehabilitation, July 1992 - June 1995
Northwestern University Feinberg School of Medicine
Rehabilitation Institute of Chicago (now Shirley Ryan AbilityLab), Chicago, Illinois

Postgraduate/Fellowship

Internship - General Internal Medicine, July 1991 - June 1992
Johns Hopkins University School of Medicine
Francis Scott Key (now Johns Hopkins Bayview) Medical Center, Baltimore, Maryland

Certification and Licensure

Specialty/Subspecialty Certification

- Diplomate, American Board of Physical Medicine and Rehabilitation, Certificate No. 5191, May 1996; recertified through 2026
- Diplomate, Subspecialty Certification in Pain Medicine, American Board of Physical Medicine and Rehabilitation, Certificate No. 172, September 15, 2001; recertified through 2021
- Diplomate, American Board of Electrodiagnostic Medicine, 2002 – 2012
- Diplomate, FLEX Internal Medicine Certification Examination, June 1991

Medical or Other Professional Licensure

- Wisconsin State Medical License #42596-20, 2000 – present
- Maryland State Medical License, 1995 – 2001
- Illinois State Medical License (Training), 1992 – 1995

Present Appointment/Position

University of Wisconsin School of Medicine and Public Health, Madison, WI

Department: Rehabilitation Medicine (2001); Orthopedics and Rehabilitation (2002-date)

Professor (CHS), July 2016 – date

Associate Professor (CHS), December 2004 – June 2016

Clinical Practice: Chronic and Acute Pain Management; Hypermobility Disorder Management; Electrodiagnosis; Musculoskeletal Medicine; General Rehabilitation

Assistant Professor (CHS), January 2001 – December 2004

Medical Director, UW Health Pain and Headache Clinics, October 2001 – April 2012

Past Appointments/Positions

Johns Hopkins University School of Medicine, Baltimore, MD

Department of Physical Medicine and Rehabilitation

Assistant Professor / Attending Physician, October 1997 – December 2000

Instructor / Attending Physician, July 1995 - September 1997

Medical Director, Johns Hopkins Hospital Inpatient Rehabilitation Consult Service,
February 1999 – August 2000

Medical Director, Johns Hopkins Hospital Acute Rehabilitation Unit, February –
September 1998

Departmental Director, Undergraduate Medical Education, 1997 – 2000

Clinical Practice: Acute and Chronic Pain Management; Electrodiagnosis; Occupational
Medicine; Independent Medical Evaluation; General Rehabilitation; Inpatient
Consultation

Professional Society Memberships

Fellow, American Academy of Physical Medicine and Rehabilitation
American Pain Society
Midwest Pain Society
International Association for the Study of Pain
Wisconsin Society of Physical Medicine and Rehabilitation

Honors and Awards

- Didactic Teacher of the Year Award, University of Wisconsin Rehabilitation Medicine Residency Training Program, 2015-16
- Castle Connolly Regional Top Doctor, Pain Management, 2017, 2016, 2015
- *Madison Magazine*, Dane County's Top Doctors, Pain Medicine and Management, 2014; 2012; 2010; 2008; 2006; 2004
- Clinical Center of Excellence in Multidisciplinary Pain Care, American Pain Society, 2008 (team leader; prepared winning application; award given to UW Health Pain Care Services)
- Clinical Teacher of the Year Award, University of Wisconsin Rehabilitation Medicine Residency Training Program, 2006-07; 2003-04
- Golden Goniometer Teaching Award, Sinai-Johns Hopkins Residency Training Program in Physical Medicine and Rehabilitation, 1997 - 1998
- Traineeship in Rehabilitation Medicine, Rehabilitation Services Administration, 1994 - 1995
- The Joanne S. Crown Residency, Rehabilitation Institute of Chicago, 1994 - 1995
- University Graduate Fellowship, Boston University, 1986 - 1987
- College Prize for Excellence in Psychology, Boston University, 1986
- New England Psychological Association Honorary Undergraduate Fellowship, 1986
- Phi Beta Kappa, Boston University, 1986
- Boston University Trustee Scholarship, 1982 - 1986

Grant Support

(Include grant title, source, monetary amount, year(s) of award, name of PI, role of faculty member if not PI, and percentage of effort)

Current

None

Pending

None

Major Past Awards

Title: Creating a Central Referral and Triage Mechanism for Patients with Chronic Pain at UW Health

Source: University of Wisconsin Hospital and Clinics Ambulatory Innovation Grant

Amount: \$5000

Year(s): 1/2006 – 12/2006

PI: Dr. Rudin

Role: Principal Investigator

Effort: 10%

Description. Developed and administered institution-wide survey of pain management and provider pain education needs. Identified need to reduce visits with chronic pain presentations in emergency department. Focus: chronic headache conditions. Developed introductory videos, web portal, and written training materials; these were distributed to all UW Health providers. Emergency Department utilization for chronic headaches declined.

Title: Do Fibromyalgia Syndrome, Joint Hypermobility And Neurally Mediated Hypotension Coexist and Can A Single Therapy Treat All Three?

Source: Johns Hopkins Blaustein Pain Research Fund

Amount: 10% Salary support

Year(s): 3/1999 – 2/2000

PI: Dr. Rudin

Role: Principal Investigator

Effort: 10%

Description. Performed tilt table testing and assessed for joint hypermobility in 20 individuals with fibromyalgia and 20 without. Approximately one-third of fibromyalgia patients had joint hypermobility. Hypermobility individuals were more likely to exhibit orthostatic hypotension/tachycardia. Treated all fibromyalgia patients with compression hose and abdominal binders. Investigation was incomplete because investigator moved to a new institution.

Title: Exploring The Relationship of Joint Hypermobility and Fibromyalgia Syndrome.”

Source: Development Grant, Johns Hopkins Blaustein Pain Research Fund

Amount: 5% Salary support

Year(s): 12/1997 – 5/1998
PI: Dr. Rudin
Role: Principal Investigator
Effort: 5%

Description. Pilot study of fibromyalgia patients compared with healthy age- and sex-matched controls. Approximately one-third of individuals with fibromyalgia had joint hypermobility.

Publications

Refereed Articles

1. Laursen K, Sehgal N, Poliak-Tunis M, **Rudin NJ**, Kim P. Regarding Modulation of Central Sensitization Following Trigger Point Anesthetization in Patients with Chronic Pain from Whiplash Trauma. *Pain Med.* 2017 Oct 28; epub ahead of print.
2. **Rudin NJ.** Topical analgesics for chronic pain. *Current Physical Medicine and Rehabilitation Reports*, 1(4):315-321, Dec 2013. DOI 10.1007/s40141-013-0028-8.
3. Turk DC, Vierck CJ, Scarbrough E, Crofford LJ, **Rudin NJ.** Fibromyalgia: Combining pharmacological and nonpharmacological approaches to treating the person, not just the pain. *J Pain* 9(2):99-104, Feb 2008.
4. Vasudevan S, Backonja B, Baker S, Bryce D, Dahl J, Feinsilver D, Keppel L, Luce D, Maiman D, Reeser J, **Rudin N**, Tyre T, and Earll M. Guidelines for the assessment and management of chronic pain. *Wisconsin Medical Journal*, 103(3), 2004.
5. Harden RN, **Rudin NJ**, Bruehl S, Kee W, Parikh D, Kooch J, Gracely RH. Elevated systemic catecholamines in complex regional pain syndrome and relationship to psychological factors: a pilot study. *Anesthesia and Analgesia*, 99:1478-85, 2004.
6. **Rudin NJ.** Evaluating treatments for myofascial pain syndrome and fibromyalgia. *Current Pain and Headache Reports*, 7(6):433-42, December 2003.
7. **Rudin NJ.** Chronic pain rehabilitation: principles and practice. *Wisconsin Medical Journal* 100(5):34-41, 64, 2001.
8. Harden RN, Bruehl S, Galer BS, Saltz S, Bertram M, Backonja M, Gayles R, **Rudin N**, Bughra MK, Stanton-Hicks M. Complex regional pain syndrome: are the IASP diagnostic criteria valid and sufficiently comprehensive? *Pain* 83(2):211-219, Nov 1 1999.
9. Bruehl S, Harden RN, Galer BS, Saltz S, Bertram M, Backonja M, Gayles R, **Rudin**

- N, Bughra MK, Stanton-Hicks M. External validation of IASP diagnostic criteria for Complex Regional Pain Syndrome and proposed research diagnostic criteria. International Association for the Study of Pain. *Pain* 81(1-2): 147-54, May 1999.
10. Palmer JB, **Rudin NJ**, Lara GL, Crompton AW. Coordination of mastication and swallowing. *Dysphagia* 7:187-200, 1992.
 11. **Rudin NJ**, Gilmore LD, Roy SH, De Luca CJ. New motor control assessment techniques for evaluating the severely handicapped: a case study. *Journal of Rehabilitation Research and Development* 24(3):57-74, 1987.

Chapters in Books

1. **Rudin NJ**. Electrodiagnostic Testing. In Abd-Elseyed A (ed): *Pain: A Review Guide*. Submitted.
2. **Rudin NJ**. Fibromyalgia. In Abd-Elseyed A (ed): *Pain: A Review Guide*. Submitted.
3. **Rudin NJ**. Myofascial Pain and Other Muscle Pain. In Abd-Elseyed A (ed): *Pain: A Review Guide*. Submitted.
4. **Rudin NJ**. Electrodiagnostic Testing in Pain Management. In Wallace MS, Staats P (ed): *Bonica's Management of Pain: 5th edition*. Submitted.
5. **Rudin NJ**. Electromyography And Nerve Conduction Studies (revised). In Wallace MS, Staats P (ed): *Pain Medicine And Management: Just The Facts, 2nd edition*. McGraw-Hill Professional, 2015.
6. O'Young B, **Rudin NJ**, Slaten W, Wang N. Chapter 75: Complex Regional Pain Syndrome: Assessment and Management. In Young M, O'Young B, Stiens S (ed.), *Physical Medicine and Rehabilitation Secrets, 3rd ed*. Philadelphia, PA: Mosby, Inc., 2008.
7. Gordon DB, **Rudin NJ**. Managing The Patient With Chronic Pain: Aspects Of Quality Assurance And Outcomes. In Pappagallo, M (ed): *The Neurologic Basis of Pain*. New York, NY: McGraw-Hill Professional, 2005.
8. **Rudin NJ**. Electromyography And Nerve Conduction Studies. In Wallace MS, Staats P (ed): *Pain Medicine And Management: Just The Facts*. McGraw-Hill Professional, 2005.
9. Burckhardt CS, Goldenberg D, Crofford L, Gerwin R, Gowans S, Jackson K, Kugel P, McCarberg W, **Rudin N**, Schaunberg L, Taylor AG, Taylor J, and Turk D. *Guideline for the Management of Fibromyalgia Syndrome Pain in Adults and*

Children. APS Clinical Practice Guidelines Series, No 4. Glenview, IL: American Pain Society, 2005.

Miscellaneous

1. **Rudin NJ**. Measure for measure. *Midwest Pain Society Update*, 1-2, Summer 2012.
2. **Rudin NJ**. Too much medicine, not enough management. *Midwest Pain Society Update*, 1-2, Summer 2011.
3. **Rudin NJ**. State of pain management. *Midwest Pain Society Update*, 1-2, Winter 2011.
4. **Rudin NJ**. What we learned (the hard way): tips on designing an opioid agreement. *Midwest Pain Society Newsletter*, 1-2, January 2002.
5. **Rudin NJ**. Completing your system: a guide to computer peripherals. *AAP Newsletter* 15(2): 3-4, Summer 1997.
6. Kuiken TA, **Rudin NJ**. *Rehabilitation Resident's Research Packet*. Resident Physician Council Research Committee, American Academy of Physical Medicine and Rehabilitation, 1994.

University of Wisconsin *Health Facts For You* (coauthor/editor on all, * = primary author).

All published by University of Wisconsin Hospitals and Clinics.

**Opioid Analgesics for Chronic Pain*.

**Complex Regional Pain Syndrome*.

**Fibromyalgia*.

Neuropathic Pain.

Managing A Pain Flare.

**Myofascial Pain*.

**Trigger Point Injection*.

**Hypermobility Spectrum Disorders*.

Medication Overuse Headache.

Migraine Headache.

Multimedia Publications (primary author except where otherwise noted)

1. *Managing Chronic Non-Cancer Pain*. Electronic Learning Module for University of Wisconsin School of Medicine and Public Health, December 2017.
2. *Opioid Analgesics and Chronic Non-Cancer Pain*. Electronic Learning Module for University of Wisconsin School of Medicine and Public Health, December 2017.
3. *Rational Opioid Prescribing*. Two-hour CME presentation for physicians and other prescribing health care providers. University of Wisconsin Office of Clinical and Professional Development, 2017.

4. Co-Author, Pain Management web site www.uwhealth.org/pain, 2007 – 2013
5. *Resident Core Curriculum in Pain Management*. (co-author/co-editor) Produced by UW Health Pain Services with University of Wisconsin Office of Clinical and Professional Development, 2008-2010
6. *Pain and Headache Clinics – Patient Orientation*. UW Health Pain Treatment and Research Center 2008. Supported by the University of Wisconsin School of Medicine and Public Health, Innovations in Medical Education Video Library.
7. *Taking Control of Your Headache*. Educational video for patients. UW Health Pain Treatment and Research Center 2007. Funded by Ambulatory Care Innovation Grant, UW Hospital and Clinics.
8. *Managing Headache in Primary Care*. Educational video for primary care providers. UW Health Pain Treatment and Research Center 2007. Funded by Ambulatory Care Innovation Grant, UW Hospital and Clinics.
9. *Welcome to the Pain Treatment and Research Center*. Introductory video for patients. UW Health Pain Treatment and Research Center 2007. Funded by Ambulatory Care Innovation Grant, UW Hospital and Clinics.
10. Author and Reviewer, IntelliHealth (www.intelihealth.com), 1997 – 2000. Published approximately 20 medical-expert advice pieces for health website's "Ask The Doc" section, and reviewed health information pieces written by other authors.

Abstracts

1. Liegel S, **Rudin NJ**. "Intrathecal Baclofen and Hydromorphone Overdose Following Cervical Decompression." Association of Academic Physiatrists 2015 Annual Meeting, San Antonio, TX, March 10-14, 2015.
2. **Rudin NJ**. "Calcitonin Nasal Spray Effective in Limb Pain Following Idiopathic Brachial Plexitis." Poster presentation, 27th Annual Scientific Meeting, American Pain Society, Tampa, FL, May 9, 2008.
3. **Rudin NJ**, Zachary SV. "Atypical Limb Pain from a Carpal Tunnel Ganglion Cyst." Poster presentation, 27th Annual Scientific Meeting, American Pain Society, Tampa, FL, May 9, 2008.
4. **Rudin NJ**, Novich-Welter LC, Koranda CL. "Widespread Pain And Joint Hypermobility In Fibromyalgia: A Distinct Clinical Subgroup." Poster presentation, 31st Annual Scientific Session, Midwest Pain Society, Chicago, IL, October 26, 2007.

5. **Rudin NJ**, Novich-Welter LC, Koranda CL. “Widespread Pain And Joint Hypermobility In Fibromyalgia: A Distinct Clinical Subgroup.” Poster presentation, 3rd International Forum on Pain Medicine, Montreal, CA, June 28 – July 1, 2007.
6. **Rudin NJ**. “Joint Hypermobility in Fibromyalgia: Prevalence and Implications.” Poster presentation, 62nd Annual Assembly, American Academy of Physical Medicine and Rehabilitation, San Francisco, CA, November 4, 2000.
7. **Rudin NJ**, Matzon JL, Wegener ST, Rowe PC, Flynn JA. “Elastic Vascular Support Garments in Fibromyalgia Syndrome: A Pilot Study.” Poster presentation, 62nd Annual Assembly, American Academy of Physical Medicine and Rehabilitation, San Francisco, CA, November 4, 2000.
8. Harden RN, Bruehl S, Galer BS, Saltz S, Bertram M, Backonja M, Gayles R, **Rudin N**, Bughra M, Stanton-Hicks M. “External Validation of IASP Criteria For Complex Regional Pain Syndrome And Suggestions For Improvement.” *Official Program, 18th Annual Scientific Meeting of the American Pain Society*, November 1998.
9. **Rudin NJ**. “World Wide Web Use Search Strategies.” Course abstract, *Official Program, 1997 Annual Meeting*, Association of Academic Physiatrists, pp. 93-98, February 27, 1997.
10. **Rudin NJ**. “Using Medline Searches.” Course abstract, *Official Program, 1997 Annual Meeting*, Association of Academic Physiatrists, pp. 77-88, February 26, 1997.
11. **Rudin NJ**, Harden RN. “Plasma Catecholamine Assays in Humans: Effect of Varying Collection Time.” *Official Program, 8th World Congress on Pain*, International Association for the Study of Pain, August 1996.
12. Harden RN, **Rudin NJ**, Cate JC, Williams TR, Parikh D. “Elevated Systemic Catecholamines in Complex Regional Pain Syndrome.” *Official Program, 14th Annual Scientific Meeting of the American Pain Society*, pg. A-119, November 1995.
13. Granfeldt EM, **Rudin NJ**, Harden RN. The utility of the patient pain drawing in detecting fibromyalgia. *Official Program, 14th Annual Scientific Meeting of the American Pain Society*, pg. A-157, November 1995.
14. Niemiec CM, Granfeldt EM, **Rudin NJ**, Harden RN. Normative data for the Medication Quantification Scale. *Official Program, 14th Annual Scientific Meeting of the American Pain Society*, pg. A-65, November 1995.

15. Harden RN, Davis EL, **Rudin NJ**. Sympathetic skin response testing in sympathetically maintained pain. *Official Program, 13th Annual Scientific Meeting of the American Pain Society*, pg. A-93, Miami, FL, November 1994.
16. Kuiken TA, **Rudin NJ**, Feldman J. Rehabilitation of femoral neuropathy after hip hemiarthroplasty. *Archives of Physical Medicine and Rehabilitation* 75(9): 1051, October 1994.
17. **Rudin NJ**, Palmer JB, Lara GL, Crompton AW. Videofluorography of mastication and swallowing. *Archives of Physical Medicine and Rehabilitation* 72(10): 778, October 29, 1991.
18. **Rudin NJ**, Gilmore LD, Roy SH, De Luca CJ. Assessing motor control in the severely handicapped: a case study. *Proceedings of the Ninth Annual Conference, IEEE Engineering in Medicine and Biology Society*, Boston, MA, November 15, 1987.

Educational Activities & Presentations

Departmental

1. “Rational Opioid Prescribing: Review of Wisconsin and National Guidelines: Part 1.” Hospital Medicine Conference, University of Wisconsin School of Medicine and Public Health, July 12, 2017 (physicians, advanced practice providers, trainees).
2. “Rational Opioid Prescribing: Review of Wisconsin and National Guidelines.” Surgery Grand Rounds, University of Wisconsin School of Medicine and Public Health, June 14, 2017 (physicians, advanced practice providers, trainees).
3. “Ehlers-Danlos Syndrome: Stretching Our Boundaries,” Rehabilitation Medicine Grand Rounds, University of Wisconsin School of Medicine and Public Health, January 2014. (Faculty, Residents, Fellow, Medical Students)
4. Pain/Musculoskeletal Fellowship Lecture Series, University of Wisconsin – Madison, 2011 – date (Fellow and Residents):
 - “Special Issues in Opioid Prescribing”
 - “Fibromyalgia and Myofascial Pain”
 - “Opioid Therapy and Substance Abuse”
5. Pain Journal Club, regular presenter, University of Wisconsin – Madison, 2011 – date (Faculty, Residents, Fellow, Medical Students)
6. “Complex Regional Pain Syndrome and Other Chronic Pain Syndromes.” Department of Orthopedics and Rehabilitation, Orthopedics Didactic Series, November 24, 2008; September 9, 2011 (Faculty, Residents, Fellow, Medical Students).
7. Rehabilitation Medicine Residency Lecture Series, University of Wisconsin – Madison,

2001 – date (Residents, Medical Students)

“Team Leadership Principles for PM&R”	“Anatomy of the Hip and Pelvis”
“Pain Pharmacology Parts 1, 2 and 3”	“Myofascial Pain Syndrome”
“Dealing With The Difficult Patient In Pain”	“Complex Regional Pain Syndrome”
“Fibromyalgia”	“Headache Diagnosis and Management”
“Hypermobility Syndrome”	“Cardiovagal Tilt-Table Testing”
“Clinical Biomechanics of the Hip and Pelvis”	“Myopathies”
“On-Call Emergencies”	“Billing and Coding: Outpatient”
“Neuropathic Pain Conditions”	

8. “Basic Science, Best Practice, and Perioperative Pain Management.” Department of Orthopedics and Rehabilitation, Orthopedics Grand Rounds, June 24, 2009; June 15, 2011 (Faculty, Residents, Fellow, Medical Students, Midlevel Providers)
9. “Fibromyalgia Syndrome: New Science, New Therapies.” Department of Rehabilitation Medicine, University of Wisconsin -- Madison, April 14, 2000 (Faculty, Residents, Fellow, Medical Students)
10. Anesthesiology Pain Fellowship Lecture Series, Johns Hopkins, 1996 - 2000
 - “Introduction to Physical Medicine and Rehabilitation.” August 16, 1996
 - “Introduction to Electrodiagnostic Evaluation.” September 1996
 - “Fibromyalgia: Pathophysiology and Management.” August 22, 1997
11. Johns Hopkins Bayview Medical Center, Chronic Pain Treatment Lecture Series, 1997 - 2000
 - “Management of Low Back Pain.” February 10, 1998
 - “Complex Regional Pain Syndrome; Peripheral Neuropathies.” March 10, 1998
 - “Office Management of Low Back Pain.” May 1999
12. “Complex Regional Pain Syndrome.” PM&R Grand Rounds, Johns Hopkins University School of Medicine, April 8, 1996
13. “Sympathetically Maintained Pain: A Current Overview.” Johns Hopkins University, Dept. of Physical Medicine and Rehabilitation, Baltimore, MD, December 16, 1994 ; Institutional Research Day Program, Rehabilitation Institute of Chicago, April 27, 1995

UWSMPH/Hospital

1. “Rational Opioid Prescribing: Review of Wisconsin and National Guidelines.” University of Wisconsin School of Medicine and Public Health, April 26, 2017; April 25, 2017 (physicians, advanced practice providers, trainees).
2. “Rational Opioid Prescribing.” 2016 Fall Institute, University of Wisconsin School of Medicine and Public Health, Middleton, WI, November 9, 2016 (pharmacists, physicians, nurses, PA/NPs)
3. “Care Transitions in Chronic Pain,” General Internal Medicine CME Conference, University of Wisconsin Hospital and Clinics, November 12, 2014 (physician and PA/NP audience)

4. "Pain Management Fundamentals," Physician Assistant Training Program, University of Wisconsin School of Medicine and Public Health, September 12, 2014; September 11, 2013; September 10, 2012 (Physician Assistant students)
5. "Fibromyalgia: State of the Art," Physician Assistant Training Program, University of Wisconsin School of Medicine and Public Health, March 20, 2013; April 11, 2012; April 2010; May 2009; April 2008; April 2007; April 2004 (Physician Assistant students)
6. "Staying Sane While Treating Pain", General Internal Medicine Faculty Lecture, University of Wisconsin School of Medicine and Public Health, September 22, 2010 (Medicine faculty, staff, residents, fellows, students)
7. "Chronic Pain in the Immediate Care Setting", Urgent Care Center Faculty Presentation, University of Wisconsin Medical Foundation, January 27, 2009 (Urgent Care faculty, staff, residents, fellows, students)
8. "Centralizing Care for Patients with Pain at UW Health", Ambulatory Care Innovation Grant Forum, UW Health, Madison, WI, February 27, 2007 (Hospital faculty and staff)
9. "Managing Headache in Primary Care – Making a Tough Job Easier," Primary Care Conference, University of Wisconsin School of Medicine and Public Health, Madison, WI, January 24, 2007 (Primary care faculty, staff, residents/fellows)
10. "Fibromyalgia: State of the Art," Radiology Grand Rounds, University of Wisconsin Medical School, Madison, WI, May 2005 (Radiology faculty, staff, residents/fellows, students)
11. "Headache Diagnosis And Management: An Overview", Brown Bag Lunch presentation, UW Health – East Clinic, April 21, 2005 (Multispecialty faculty, trainees and staff)
12. "Opioids And Chronic Nonmalignant Pain", Brown Bag Lunch presentation, UW Health – East Clinic, January 27, 2005 (Multispecialty faculty, trainees and staff)
13. Staff In-Service Series on Goal-Directed Pain Treatment, University of Wisconsin Pain Treatment and Research Center, January – March 2004 (Pain Clinic faculty and staff)
14. "Staying Sane While Treating Pain", General Internal Medicine Faculty In-Service, University of Wisconsin Medical School, October 13, 2004 (Medicine faculty, staff, and trainees)
15. Medical Student Clinical Neurosciences Course, University of Wisconsin Medical School, 2001 – date (Medical students)
 - a. "Acute and Chronic Pain", multiple sessions, 2006 – present
 - b. "Chronic Pain Rehabilitation Case Conference", multiple sessions, 2001 – present
16. "Hypotension, Hypermobility, and Fibromyalgia Syndrome: New Findings and a Novel Treatment," Johns Hopkins-University of Maryland Pain Research Lecture Series, December 8, 2000

17. "Examining The IASP Criteria For Complex Regional Pain Syndrome." Blaustein Pain Treatment Center Conference, Johns Hopkins Hospital, October 2000
18. "Cardiac Rehabilitation: Basics." Vascular Surgery Resident Lecture, Johns Hopkins Hospital, March 2000
19. "How Physical Medicine and Rehabilitation Can Help You." Johns Hopkins University School of Medicine, Internal Medicine House Staff Lecture Series, January 20, 1999
20. "New Thoughts on Fibromyalgia: Pathogenesis and Treatment." Blaustein Pain Treatment Center Conference, Johns Hopkins Hospital, February 13, 1998
21. "Fibromyalgia: Pathophysiology And Management," Johns Hopkins Occupational and Environmental Health, Summer Institute - Advanced Topics in Musculoskeletal Disorders, Baltimore, MD, June 5, 1997
22. "Disorders of the Low Back," Johns Hopkins Occupational and Environmental Health, Summer Institute: Advanced Topics in Musculoskeletal Disorders, Baltimore, MD, June 5, 1997

State & Regional

1. "Myofascial Pain and Fibromyalgia: Aching for Relief." Primary Care Conference, University of Wisconsin School of Medicine and Public Health, Middleton, WI, November 10, 2017 (physicians, advanced practice providers, nurses).
2. "Marijuana and Cannabinoids: Marvel, Menace, or Both?" Reedsburg Area Medical Center, Reedsburg, WI, November 7, 2017 – via Web conference (physicians, advanced practice providers, nurses, case managers, pharmacists).
3. "Managing Complex Chronic Pain." Aspirus Medical Center, Wausau, WI, November 7, 2017 (physicians, advanced practice providers).
4. "Complex Chronic Pain in the ED." Wisconsin Emergency Nursing Association Conference, Wisconsin Dells, WI, October 25, 2017 (nurses).
5. "Managing Complex Chronic Pain." Case Management Society of America, Madison Area Chapter Meeting, Madison, WI, September 28, 2017 (case managers).
6. "Rational Opioid Prescribing: Review of Wisconsin and National Guidelines: Part 2." Mercy Hospital, Janesville, WI, June 20, 2017 (physicians, advanced practice providers, psychologists, trainees).
7. "Rational Opioid Prescribing: Review of Wisconsin and National Guidelines." Bellin Health, Green Bay, WI, May 2, 2017 (physicians, advanced practice providers, trainees).
8. "Rational Opioid Prescribing: Review of Wisconsin and National Guidelines: Part 1." Mercy Hospital, Janesville, WI, April 18, 2017 (physicians, advanced practice providers, psychologists, trainees).

9. "Opioids and Drugs Update: Opioids, Vaping, New Illicits." Howard Young Medical Center, Ministry Health Care, Minocqua, WI, November 30, 2016 (physicians, advanced practice providers, pharmacists, psychologists, nurses).
10. "Marijuana and Cannabinoids: Marvel, Menace, or Both?" Waukesha Memorial Hospital, Waukesha, WI, November 1, 2016 (physicians, advanced practice providers, nurses, case managers, pharmacists).
11. "Chronic Pain Management." Reedsburg Area Medical Center, Reedsburg, WI, November 1, 2016 (physicians, advanced practice providers, nurses, pharmacists).
12. "Rock and a Hard Place: Navigating Between Pain Relief and Drug Abuse." Howard Young Medical Center, Ministry Health Care, Minocqua, WI, May 19, 2016 (physicians, advanced practice providers, pharmacists, psychologists, nurses).
13. "Managing the Complex Patient with Pain." Reedsburg Area Medical Center, Reedsburg, WI, November 3, 2015 (physicians, advanced practice providers, nurses).
14. "Pain and Pain Management in Spinal Cord Injury." Madison SCI (Chapter of United Spinal Association) meeting, Madison, WI, October 13, 2015 (spinal cord injury patients, caregivers and families).
15. "Older Adults with Chronic Pain: Differences in Assessment and Management." Primary Care Conference, University of Wisconsin School of Medicine and Public Health/School of Nursing, Madison, WI, November 14, 2014 (physician, nurse, PA/NP audience)
16. "Stretch Yourself: Managing Pain in Patients with Hypermobility," E. Richard Blonsky Memorial Lecture, Midwest Pain Society 38th Scientific Session, Chicago, IL, October 24, 2014 (physician, PA/NP, psychologist, nurse audience)
17. "Ambulatory Chronic Pain Management," CME Conference, Medical Associates / Mercy Medical Center, Dubuque, IA, October 15, 2014 (physician, PA/NP, nurse audience)
18. "Chronic Pain Medication Update," Wisconsin Society of Physical Medicine and Rehabilitation Annual Symposium, Sheboygan, WI, September 20, 2014 (physicians and NP/PAs)
19. "Staying Sane While Treating Pain," Primary Care Conference, Group Health Cooperative of South Central Wisconsin, May 8, 2013 (physician and PA/NP audience)
20. "Fibromyalgia: State of the Art 2011." Reedsburg Memorial Hospital, Reedsburg, WI, February 16, 2011 (multidisciplinary audience).
21. "Managing Chronic Pain: Perspectives and Techniques." Care Wisconsin, Madison, WI, February 3, 2011 (health care providers and caseworkers).
22. "Fibromyalgia: Not Just a Musculoskeletal Disorder." Midwest Pain Society 34th Scientific Session, Chicago, IL, October 22, 2010 (physicians, nurses, psychologists).

23. "Update on Chronic Pain Pharmacotherapy." Wisconsin Society of Physical Medicine and Rehabilitation Annual Symposium, Wisconsin Dells, WI, April 25, 2009 (Physicians and NP/PAs)
24. "Assisting the Employee with Chronic Pain." South Central Wisconsin Employee Assistance Professionals Association, 2009 Training Conference, Madison, WI, April 3, 2009 (employee assistance professionals).
25. "Fibromyalgia: State of the Art." CME Outreach presentation, Richland Medical Center, Richland Center, WI, January 12, 2009 (physicians, nurses, allied health).
26. "Fibromyalgia and Myofascial Pain." University of Wisconsin Symposium: Pain Management For The Primary Care Practitioner: What You Need To Know," Middleton, WI, October 25, 2008 (primary care providers).
27. "Medications: Part 1 (Non-Opioids)." University of Wisconsin Symposium: Pain Management For The Primary Care Practitioner: What You Need To Know," Middleton, WI, October 24, 2008 (primary care providers).
28. "Comorbidities Of Headache And Chronic Pain." University of Wisconsin Symposium: Headache Conference, Wisconsin Dells, WI, September 27, 2008 (physicians, midlevel providers, nurses)
29. "Fibromyalgia State-Of-The-Art Update." Keynote presentation, Midwest Pain Society 32nd Scientific Session, Chicago, IL, September 19, 2008 (multidisciplinary audience)
30. "Nonpharmacologic Pain Management." CME Outreach Lecture, Moundview Hospital, Friendship, WI, November 12, 2007 (physicians)
31. "Fibromyalgia Syndrome: State Of The Art." CME Outreach Lecture, Freeport Memorial Hospital, Freeport, IL, April 27, 2007 (physicians, nurses, allied health)
32. "Complex Regional Pain Syndrome." CME Outreach Lecture, St. Clare Hospital, Baraboo, WI, April 12, 2007 (physicians, nurses, psychologists, allied health)
33. "Painful Transitions: Improving the Transfer of Pain Management Across the Health Care Continuum." 30th Annual Scientific Session, Midwest Pain Society, Chicago, IL, September 15, 2006 (physicians, nurses, psychologists, allied health)
34. "Complex Regional Pain Syndrome." Grand Rounds, Mercy Health System, Janesville, WI, April 18, 2006 (physicians, nurses, allied health)
35. "Staying Sane While Treating Pain." CME Symposium: Pain Management Across Ages And Specialties. Rockford Health System, Rockford, IL, April 5, 2006 (physicians, nurses, midlevel providers, allied health)
36. "Pain In The Elderly – Acute and Chronic." CME Symposium: Pain Management Across Ages And Specialties. Rockford Health System, Rockford, IL, April 5, 2006 (physicians, nurses, midlevel providers, allied health)

37. "Improving Pain Care At Aspirus Wausau Hospital." Grand Rounds, Aspirus Wausau Hospital, Wausau, WI, March 3, 2006 (physicians, nurses, allied health)
38. "Chronic Pain Management: The Interdisciplinary Approach." Nursing Continuing Education, WPS Health Insurance, Madison, WI, May 18, 2005 (nurses/case managers)
39. "Pain Management And The Correctional System." Medical Staff Meeting, Wisconsin Department of Corrections, Madison, WI, February 3, 2005 (physicians)
40. "Opioids In Chronic Nonmalignant Pain." Mercy Health System, Janesville, WI, November 23, 2004. (physicians)
41. "Fibromyalgia: State Of The Art." St. Mary's Medical Center, Rhinelander, WI, October 8, 2004. (physicians, nurses, allied health)
42. "Fibromyalgia Syndrome: New Assessment And Treatment Criteria." 28th Scientific Session, Midwest Pain Society, Chicago, IL, September 12, 2004 (physicians, nurses, psychologists, allied health)
43. "Managing Orthopedic Pain." Rockford Memorial Hospital, Rockford, IL, March 18, 2004. (nurses, physicians)
44. "Chronic Pain Rehabilitation: Principles and Practice." CME Outreach Lecture, Reedsburg Medical Center, Reedsburg, WI, February 6, 2004. (physicians, nurses, allied health)
45. "Fibromyalgia Syndrome: State Of The Art." Wisconsin Society of Physical Medicine and Rehabilitation, Fifth Annual Educational Symposium, Milwaukee, WI, January 17, 2004 (physicians, allied health, psychologists)
46. "Chronic Pain Management: A Rehabilitative Approach." CME Outreach Lecture, Freeport Memorial Hospital, Freeport, WI, October 28, 2003 (physicians, nurses, allied health)
47. "Fundamentals of Inpatient Pain Management." CME Outreach Lecture, Columbus Community Hospital, Columbus, WI, October 7, 2003 (physicians, nurses)
48. "Functional Assessment And Rehabilitation In Neuropathic Pain." Midwest Pain Society Annual Meeting, Chicago, IL, September 19, 2003 (physicians, nurses, psychologists, allied health)
49. "Improving Institutional Pain Management." Trinity Regional Medical Center, Fort Dodge, IA, May 13, 2003 (nurses, physicians)
50. "Drug Therapy In Peripheral Neuropathy." Madison Area Peripheral Neuropathy Support Group, Madison, WI, April 8, 2003 (lay public)
51. "Fibromyalgia Syndrome: State of the Art." CME Outreach Lecture, Janesville – Mercy Health System, Janesville, WI, February 18, 2003 (physicians, nurses, allied health)

52. "Fibromyalgia Syndrome: State of the Art." CME Outreach Lecture, Monroe Clinic, Monroe, WI, February 7, 2003 (physicians, nurses, allied health)
53. "Challenging Cases in Chronic Pain." Tri-County Medical Society Meeting, Wisconsin Dells, WI, January 22, 2003 (physicians)
54. "Non-Pharmacological Techniques for Pain Management." Lecture and panel discussion, Pain Management Update, sponsored by Rockford Memorial Hospital, Rockford, IL, November 20, 2002 (nurses, allied health, physicians)
55. "Fibromyalgia Syndrome: State of the Art." CME Outreach Lecture, Beloit Memorial Hospital Grand Rounds, Beloit, WI, November 13, 2002 (physicians, nurses, allied health)
56. "Chronic Pain Management: A Rehabilitative Approach." CME Outreach Lecture, Columbus Community Hospital, Columbus, WI, May 15, 2002 (physicians, nurses, allied health)
57. "Myofascial Pain and Fibromyalgia." UW Health Updates in Medicine, Appleton, WI, May 8, 2002 (physicians, nurses)
58. "Challenging Cases in Chronic Pain." Pain Board Inservice, Oconomowoc Memorial Hospital, May 7, 2002 (physicians, nurses, medical students)
59. "Fibromyalgia Syndrome." Advances in Pain Therapy, University of Wisconsin CME Conference, October 19, 2001 (physicians, nurses)
60. "Functional Restoration." Advances in Pain Therapy, University of Wisconsin CME Conference, October 19, 2001 (physicians, nurses)
61. "Chronic Pain Management: A Psychiatric Approach." Wisconsin Partnership Program / Community Living Alliance, Madison, WI, February 28, 2001 (nurse practitioners)
62. "Fibromyalgia Syndrome: State Of The Art." Union Memorial Hospital, Physical Medicine and Rehabilitation Grand Rounds, December 21, 1999 (physicians, nurses, medical students)
63. "Introduction to Physical Medicine and Rehabilitation." Family Practice Grand Rounds, Franklin Square Hospital, Baltimore, MD, January 21, 1998 (physicians, medical students, nurses)
64. "Introduction to Physical Medicine and Rehabilitation." Baltimore Medical Systems, Inc., Baltimore, MD, March 5, 1997 (physicians)

National/International

1. "Pain Board Examination: Strategies to Improve Performance." Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI,

August 15, 2017. (Physicians, trainees, and advanced practice providers, national and international audience)

2. "Pain Management in the Older Adult." Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI, August 10, 2012; August 7, 2013; August 19, 2014; August 12, 2016; August 14, 2017. (Physicians, trainees, and advanced practice providers, national and international audience)
3. "Electrophysiologic Testing and Pain Management." Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI, August 6, 2008; August 6, 2009; July 28, 2010; August 3, 2011; August 8, 2012; August 7, 2013; August 18, 2014; August 12, 2015; August 10, 2016; August 15, 2017. (Physicians, trainees, and advanced practice providers, national and international audience)
4. "Myofascial Pain, Fibromyalgia, and Botulinum Toxin." Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI, July 31, 2004; August 2005; August 9, 2006; August 8, 2007; August 5, 2008; August 5, 2009; July 27, 2010; August 2, 2011; August 7, 2012; August 6, 2013; August 19, 2014; August 12, 2015; August 12, 2016; August 17, 2017. (Physicians, trainees, and advanced practice providers, national and international audience)
5. "Medical Management of Pain." American Syringomyelia and Chiari Alliance Project, Annual Conference, Austin, TX, July 24, 2010. (Physicians, advanced practice providers, patients, families and activists)
6. "Alternative Treatments and Pain." American Syringomyelia and Chiari Alliance Project, Annual Conference, Austin, TX, July 24, 2010. (Physicians, advanced practice providers, patients, families and activists)
7. "Straight Talk About Pain And Fatigue." American Syringomyelia and Chiari Alliance Project, Annual Conference, Austin, TX, July 23, 2010. (Physicians, advanced practice providers, patients, families and activists)
8. "Pain Epidemiology And Physiology." Montana State Pain Initiative Conference, Missoula, WI, September 5, 2008. (Physicians, advanced practice providers, patients, families, activists, legislators, press)
9. "Ideal Pain Management: What Is It, And How Do We Get There?" Montana State Pain Initiative Conference, Missoula, WI, September 5, 2008. (Physicians, advanced practice providers, patients, families, activists, legislators, press)
10. "Basics of Electrodiagnostic Testing." Small Group Seminar, Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI, August 7, 2006. (Physicians, trainees and advanced practice providers)
11. "Basics of the Musculoskeletal Examination." Small Group Seminar, Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI, August 7, 2006. (Physicians, trainees and advanced practice providers)
12. "Chronic Neuropathic Pain Relief: Evidence Based Therapy." Chairperson and

Lecturer, CME Forum at American Association of Neuromuscular and Electrodiagnostic Medicine, Annual Scientific Meeting, Monterey, CA, September 23, 2005. Sponsor: University of California, Irvine. (Physicians, advanced practice providers)

13. "Improving Patient-Provider Relationships." (with Debra Gordon, RN, MS) Pain Resource Professional Training Program, University of Wisconsin Nursing Conference, May 21, 2004. (Nurses and nurse practitioners)
14. "Interdisciplinary Rehabilitation and Chronic Pain." Pain Resource Professional Training Program, University of Wisconsin Nursing Educational Conference, May 20, 2004; November 7, 2006. (Nurses and nurse practitioners)
15. "Fibromyalgia and Myofascial Pain." Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI, August 3, 2003
16. "Assessment and Classification of Pain." Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI, August 1, 2003
17. "Chronic Pain Rehabilitation and Functional Restoration." Pain Resource Professional Training Program, University of Wisconsin Nursing Conference, February 26, 2001
18. "Cardiac Rehabilitation For Physically Disabled Individuals." Annual Meeting, American Association of Cardiovascular and Pulmonary Rehabilitation, Dallas, TX, November 6, 1997
19. "World Wide Web Use Search Strategies." Computer Literacy Course for Academic Physicians, Annual Meeting, Association of Academic Psychiatrists, Colorado Springs, CO, February 26-27, 1997
20. "Using Medline Searches." Computer Literacy Course for Academic Physicians, Annual Meeting, Association of Academic Psychiatrists, Colorado Springs, CO, February 26-27, 1997
21. "Videofluorography of Mastication and Swallowing." American Academy of Physical Medicine and Rehabilitation / American College of Rehabilitation Medicine, Washington, DC, October 29, 1991
22. "Assessing Motor Control in the Severely Handicapped: A Case Study." IEEE Engineering in Medicine and Biology Society, Boston, MA, November 15, 1987

Clinical Teaching

- Pain Management Clinic, UW Health, Madison, WI – train residents from Physical Medicine and Rehabilitation, Anesthesiology, and Psychiatry; train medical students; train Pain/Musculoskeletal fellow and rotating Palliative Care fellows, 2001 – date

Mentoring

- Thesis Advisor and Thesis Committee Member, Theresa J. Hoeft, Ph.D. candidate, Population and Health Sciences, University of Wisconsin - Madison, 2006 – 2008

- Clinical/research mentor, Christine Koranda, B.A., Medical Scholars Program, University of Wisconsin, Summer 2003

Other

Service Activities

Departmental

- Chair, Clinical Competency Committee, Pain/Musculoskeletal Fellowship, UW School of Medicine and Public Health, 2017 – date
- Clinical Competency Committee, Division of Rehabilitation Medicine, UW Department of Orthopedics and Rehabilitation, 2014 - date
- Compensation Committee, Division of Rehabilitation Medicine, UW Department of Orthopedics and Rehabilitation, 2011 – date

UWSMPH/Hospital

- PaCE Case Facilitator for second-year medical students, UW School of Medicine and Public Health, Fall Semester 2017. Group leadership/facilitation for problem-based learning, commitment 4 hours/week.
- Lead author, task force member and presenter, Medical Education on Responsible Opioid Prescribing, UW School of Medicine and Public Health, 2016-2017
- Compensation Development Committee, UW Medical Foundation, 2015-2017
 - Retirement and Succession Planning Subcommittee, 2017
- Chair, New Provider Onboarding Project, UW Health, February 2015 – date
- Immediate Past President, Medical Staff Board, UW Hospital and Clinics, September 2014-August 2016
 - Medical Staff representative, Joint Commission facility-wide survey
- President, Medical Staff Board, UW Hospital and Clinics, August 2011 – September 2014
 - Chair, Medical Staff Board monthly meetings
 - Chair, Bylaws Committee
 - Non-voting member, UW Hospital and Clinics Authority Board
 - Medical Staff representative, Joint Commission facility-wide survey
 - Search Committee, Chief Medical Officer/Senior VP Academic Affairs
 - Due Diligence team for proposed UWHC-Swedish American partnership
- Pain Systems Steering Committee, UW Health, 2013 – date
 - Chronic Pain and Pediatrics Subcommittees, September 2015 – date
- Bylaws Committee, UW Hospital and Clinics, August 2008 – September 2016
- Physician Health Link (EMR) Advisory Group, UW Health, 2008 – 2013
- Member, Quality Inpatient Documentation Physician Task Force, UW Hospital and Clinics, 2011
- Vice President, Medical Staff Board, UW Hospital and Clinics, September 2010 –

August 2011

- Chair, Credentials Committee, UW Hospital and Clinics, 2010 - 2011
- Co-Chair, Interdisciplinary Documentation Workgroup, Documentation Quality Steering Initiative, UW Hospital and Clinics, 2010 – 2011
- Chair, Corrective Action Peer Review Committee (ad hoc), Medical Staff, UW Hospital and Clinics, 2010
- Compliance Support Committee, UW Medical Foundation, 2009 - 2011
- Secretary/Treasurer, Medical Staff Board, UW Hospital and Clinics, 2008 – 2010
- Physician Leadership Development Program, UW Medical Foundation, 2008-2009
- Chair, Medical Records Committee, UW Hospital and Clinics, 2008 - 2010
- Planning Committee, UW Annual Comprehensive Pain Board Review Symposium, 2002 – date
- Electronic Medical Record Physician Advisory Committee, University of Wisconsin Hospital and Clinics, 2006 – 2007; 2004 – 2005
- UW Hospital and Clinics, Pain Systems Planning Group, 2006 – 2007
- UW Hospital and Clinics, Pharmacy Policy Task Force, 2005 – 2006
- Scientific Program Committee, Comprehensive Pain Review Symposium, University of Wisconsin School of Medicine / Office of Continuing Professional Development, 2002 – date
- Director, Neuro-Musculoskeletal Section, Rehabilitation Medicine Residency Didactics Program, UW School of Medicine and Public Health, 2008 – 2014
- Small Group Instructor, “Patient, Doctor and Society” course for medical students, University of Wisconsin School of Medicine and Public Health, 2002, 2003, 2006, 2008, 2010, 2012
- Scientific Program Director, *Pain Management For The Primary Care Practitioner*, University of Wisconsin School of Medicine / Office of Continuing Professional Development, 2007 – 2010
- Co-Developer, UW Health Pain Management Resources Web page, University of Wisconsin Hospital and Clinics, 2002

Community

- Medical Director, Naloxone Program, Village of Shorewood Hills Police Department, 2017 – 2018
- UW Representative, Board of Trustees, Dane County Medical Society, 2008 – 2010

Regional

- Chair, Pain Management Workgroup, Physicians Plus Insurance Corporation, 2007 – 2011
- Group Health Cooperative of South Central Wisconsin, Pain Treatment Policy and Monitoring Task Force, 2004 – 2005
- Board of Directors, Midwest Pain Society, 2001 – date
- Immediate Past President, Midwest Pain Society, 2012 – 2014

- President, Midwest Pain Society, 2010 – 2012
- Scientific Program Committee, Midwest Pain Society Scientific Sessions, 2009, 2011, 2013
- President-Elect, Midwest Pain Society, 2008 – 2010; Secretary, 2003 – 2008
- Scientific Program Chair, 32nd Scientific Session, Midwest Pain Society, September 17-18, 2008
- Medical Advisor, EDS (Ehlers-Danlos Syndrome) Network C.A.R.E.S. Inc., Milwaukee, WI, 2005 – date
- Research Advisory Council, Epic Systems, Verona, WI, 2007 – 2009
- Scientific Program Co-Chair, 31st Scientific Session, Midwest Pain Society, Chicago, IL, October 26-27, 2007
- Member / Co-Author, Task Force To Develop Guidelines On Pain Management, Wisconsin Medical Society, 2002 – 2004
- Medical Staff Conference Committee, Johns Hopkins Hospital, 1997 – 2000
- Spine Center Initiative Committee, Johns Hopkins Hospital, 1997 – 2000
- Chronic Pain Program Committee, Johns Hopkins Bayview Medical Center, 1996 – 1998
- Chair, Computer Utilization Steering Committee, Johns Hopkins Physical Medicine and Rehabilitation, 1995 – 2000
- Designer/Manager, Johns Hopkins Physical Medicine and Rehabilitation Web site, 1995 – 2000

National/International

- Introduction to Diagnostic and Interventional Ultrasound Applications, American Academy of Physical Medicine and Rehabilitation, October 1-2, 2013, National Harbor, MD
- Physician Leadership Academy, The Advisory Board, 2004 – 2005
- Web Site Advisory/Planning Committee, Association of Academic Physiatrists, 1997 – 2000
- Resident Physician Council Research Committee, American Academy of Physical Medicine and Rehabilitation, 1993 – 1994
- Candidate, Director-At-Large, American Pain Society, 2015 (not elected)
- Clinical Centers of Excellence Program Committee, American Pain Society, 2008 – 2010
- Reviewer, *Journal of Back and Musculoskeletal Rehabilitation*, 2006 – date
- Reviewer, *Clinical Journal of Pain*, 2007 – date, 1999 – 2000
- Reviewer, *Archives of Physical Medicine and Rehabilitation*, 2004 – 2008, 1995 – 1998
- Reviewer, *Journal of Psychosomatic Research*, 2004
- Member / Co-Author, Panel To Develop The Guideline For Management Of Fibromyalgia Pain, American Pain Society, 2002 – 2004
- Abstract Reviewer, American Academy of Physical Medicine and Rehabilitation, 1995 – 1999

Other Activities

- Participant, Florence Melton School of Adult Jewish Learning, 2015 - 2016
- Chorus, *The Mikado*, Madison Savoyards, Summer 2015
- Yonim Israeli Dance Troupe, Madison, WI: Advisory Committee, 2008 – 2009; Performance video production, 2004 – 2011, 2014
- Cub Scout Pack 302, Four Lakes Council, Madison, WI: Wolf Scout Den Leader, 2004 - 2005; Pack Advisory Committee, 2004 - 2005
- American Cancer Society, Madison Relay For Life Planning Committee, 2004 - 2005
- Beth Israel Center, Madison, WI: Co-founder and leader, "Gesher" Sabbath service for elementary-school children, 2001-2002; Building Committee, 2002; "Kabbalat Shabbat" service lay leader, 2001 - 2004; Sabbath and holiday service lay leader, 2001 - date
- Board of Examiners, The Henry B. Betts Award, Prince Charitable Trusts, 1994

January 17, 2018