

Richard David Zorowitz, M.D.

August, 2006

Office Address: Johns Hopkins Bayview Medical Center
AA Building, Room 1654
4940 Eastern Avenue
Baltimore, MD 21224-2780

Education:

1977-1981 B.S. Northwestern University Technological Institute, Evanston, IL
Biomedical Engineering/Computer Applications
1981-1985 M.D. Tulane University School of Medicine, New Orleans, LA

Postgraduate Training and Fellowship Appointments:

1985-1986 Internship in Internal Medicine
Long Island Jewish Medical Center, New Hyde Park, NY
1986-1989 Residency in Physical Medicine and Rehabilitation
Northwestern University Rehabilitation Institute of Chicago, Chicago, IL

Military Service: None

Faculty Appointments:

1989-1991 Instructor, Department of Physical Medicine and Rehabilitation
UMDNJ - New Jersey Medical School, Newark, NJ
1991-1995 Assistant Professor, Department of Physical Medicine and Rehabilitation
UMDNJ - New Jersey Medical School, Newark, NJ
1995-2001 Assistant Professor of Rehabilitation Medicine
University of Pennsylvania, Philadelphia, PA
2001-2006 Associate Professor of Physical Medicine and Rehabilitation
University of Pennsylvania, Philadelphia, PA
2006-present Visiting Associate Professor of Physical Medicine and Rehabilitation,
Johns Hopkins University, Baltimore, MD

Hospital and Administrative Appointments:

Kessler Institute for Rehabilitation, West Orange, NJ
1989-1990 Staff Psychiatrist
1990-1994 Clinical Chief, Stroke Services
1990-1995 Coordinator, Center for Swallowing Disorders
1993-1995 Director, Stroke Services

University of Pennsylvania Health System, Philadelphia, PA

- 1995-2006 Director, Stroke Rehabilitation, Department of Physical Medicine and Rehabilitation
- 1997-2006 Medical Director, George M. Piersol Rehabilitation Unit, Department of Physical Medicine and Rehabilitation

Johns Hopkins Medical Institutions, Baltimore, MD

- 2006-present Chairman, Department of Physical Medicine and Rehabilitation, Johns Hopkins Bayview Medical Center

Specialty Certification:

- 1986 National Board of Medical Examiners Diplomate
- 1990 American Board of Physical Medicine and Rehabilitation
- 2003 Spinal Cord Injury Medicine Subspecialty (expires 2013)

Licensure:

- 1989 New Jersey MA053058
- 1995 Pennsylvania MD-056512-L

Awards and Honors:

- 1978 Phi Eta Sigma Honor Society, Northwestern University
- 1980 Tau Beta Pi Engineering Honor Society, Northwestern University
- 1983-1985 Joseph Collins Scholarship, Tulane University School of Medicine
- 1986-1989 Dr. William Scholl Fellowship, Rehabilitation Institute of Chicago
- 1991 Physician in Home Care, Essex County, NJ
- 1991-1993 Registry of Rising Young Americans in American Society and Business Citation's Who's Who
- 1995 Excellence in Research Writing Award (Resident Award, Co-Author) Association of Academic Physiatrists
- 1996 1st Career Achievement Award for Stroke Caregiving National Stroke and Quality of Life Medical Education Institute
- 2000 Excellence in Stroke Education, National Stroke Association
- 2001 Operation Stroke Initiatives, American Heart Association, Southeastern Pennsylvania Region
- 2001 Visionary in Practice Society, National Stroke Association
- 2001-2006 Best Doctors, Aiken, SC
- 2002-2006 Marquis Who's Who in America
- 2002-2005 Guide to Top Doctors, Center for the Study of Services, Washington, DC
- 2002 Outstanding Leadership Award, American Heart Association, Southeastern Pennsylvania Region
- 2002 Distinguished Achievement Award, American Heart Association, Pennsylvania-Delaware Affiliate

2002-present America's Registry of Outstanding Professionals, Westbury, NY
2003-2006 Marquis Who's Who in Science and Engineering
2003 Delaware Valley Area's Top Doctors, Delaware Valley Consumers'
Checkbook, 1(2): Summer/Fall 2003
2004-2006 Marquis Who's Who in Medicine and Healthcare
2004 Marquis Who's Who in the World, 22nd Edition
2005 AcademicKeys Who's Who in Medical Sciences Education
2005-2010 Honored Member, Strathmore's Who's Who

Memberships in Professional and Scientific Societies:

National Societies

1987-present Association of Academic Psychiatrists
1987-present American Academy of Physical Medicine and Rehabilitation
Stroke and Neurological Diseases Special Interest Group
Vice Chairman, 1994-1996
Chairman, 1996-1998
Education Committee, Chairman, 1998-2000
Program Planning Subcommittee, 1995-2000
Cyber Education Subcommittee, 1999-2001
Editor, Stroke Cases-of-the-Month
Practice Guidelines Subcommittee, 2000-present
Chairman, 2003-present
Performance Measures Task Force, 2005-2006
1991-present National Stroke Association
North American Stroke Meeting Planning Committee, 1996-2003
Rehabilitation and Recovery Advisory Board, 1996-present
Chairman, 2003-present
Professional Advisory Committee 2000-present
Rehabilitation Legislative Task Force, Chairman, 2000-2002
Regional Meeting Planning Committee, 2005-present
1992-present American Stroke (Heart) Association
Stroke Council, Fellow, 1992-present
National Stroke Advisory Committee, 1997-2000
Abstract Review Subcommittee, Scientific Program Committee, 2002-2005
Standing Scientific Committee on Stroke Rehabilitation, Co-Chairman, 2003-present
Advisory Group on Comprehensive Stroke Centers, 2005-present
Pennsylvania-Delaware Affiliate
Stroke Advisory Committee, 1998-2003
Chairman, 2001-2003
Philadelphia Operation Stroke, 1999-2002
Rehabilitation and Recovery Subcommittee, Chairman, 1999-2002
Outreach Committee, 2001-2003
Board of Directors, 2001-2003

- 2002-present Joint Commission on Accreditation of Healthcare Organizations
Long-Term Care and Assisted Living Professional and Technical
Advisory Committee, 2002-present
Disease Specific Care Stroke Expert Panel, 2003-present
- 2004 Commission on the Accreditation of Rehabilitation Facilities
Stroke Specialty Standards Expert Panel

Local Societies

- 1995-2006 Philadelphia Society of Physical Medicine and Rehabilitation
1996-2003 Philadelphia (Delaware Valley) Stroke Council
Rehabilitation Subsection, Chairman, 1997-2003
Medical Board of Directors, Member, 1999-2003
- 2001-2002 Advisory Committee on Stroke Prevention, Commonwealth of
Pennsylvania
Chairman, Rehabilitation Subcommittee, 2001-2002
- 2003-2006 Pennsylvania Cardiovascular Health Consortium

Editorial Positions:

- 1991 Associate Guest Editor, Orthopedics, Vol. 14, Nos. 11-12
- 1992-2004 Guest Editor, Archives of Physical Medicine and Rehabilitation
- 1992-present Guest Editor, American Journal of Physical Medicine and Rehabilitation
- 1994-present Editorial Board, Topics in Stroke Rehabilitation
- 1995 Peer Reviewer, Guideline Technical Report. Gresham GE, Duncan PW,
Stason WB, et al. Post-Stroke Rehabilitation, Clinical Practice Guideline, No.
16. Rockville, MD: U.S. Department of Health and Human Services. Public
Health Service. Agency for Health Care Policy and Research. AHCPR
Publication No. 95-0662. May, 1995.
- 1997 Issue Editor, Topics in Stroke Rehabilitation, Vol. 4, No. 3
- 1997-present Guest Editor, Stroke
- 1998-2005 Assistant Editor, Neurorehabilitation and Neural Repair
- 2000 Associate Editor. Grabois M, Garrison SJ, Hart KA, Lehmkuhl LD (eds.).
Physical Medicine and Rehabilitation: The Complete Approach. Malden,
MA: Blackwell Science, Inc.
- 2001 Issue Editor, Topics in Stroke Rehabilitation, Vol. 8, No. 2
- 2002-present Guest Editor, Journal of Rehabilitation Research and Development
- 2003-present Guest Editor, Disability and Rehabilitation
- 2003 Member of the Working Group. Management of Stroke Rehabilitation in
Primary Care. Washington, DC: VA/DoD Clinical Practice Guideline
Working Group, Veterans Health Administration, Department of Veterans
Affairs and Health Affairs, Department of Defense, February 2003. Office of
Quality and Performance publication 10Q CPG/STR-03.
- 2003 Review Committee. Wang CC, Kosinski CJ, Schwartzberg JG, Shanklin AV.
Physician's Guide to Assessing and Counseling Older Drivers. Chicago, IL:
American Medical Association, 2003.
- 2004-present Guest Editor, Multiple Sclerosis
- 2005-present Associate Editor, Archives of Physical Medicine and Rehabilitation

Principal Investigator of Grants:

1. Lazar, R.B., Logemann, J.A., Zorowitz, R.D., Halper, A.S., Edgar, J.D., Heinemann, A.W. *Prognosis for Recovery of Swallowing Function Following Cerebrovascular Accident*. Co-Investigator. National Institutes of Health. **R01NS26779-01**, 1990-93.
2. Zorowitz, R.D. *A multicenter, double-blind, placebo-controlled; parallel, dose response clinical trial of intramuscular botulinum toxin Type A (BOTOX) for the treatment to upper limb spasticity in post-stroke patients*. Allergan, Inc., Irvine, CA. **BTOX-133-8051**, 1994-1998.
3. Zorowitz, R.D. *The effectiveness of the Walk AideTM to improve ambulation in stroke survivors*. Neuromotion, Inc., Arden Hills, MN. 1998-1999 (terminated).
4. Zorowitz, R.D., Levengood, T.K. Evaluation of a 6-week Percutaneous Neuromuscular Stimulation Regimen for Treating Shoulder Subluxation, Pain, and Functional Disability in Acute and Chronic Post-Stroke Individuals. NeuroControl, Inc., Valley View, OH. 2001-2004.
5. Zorowitz, R.D., Evaluating the Mds-PAC for use in base mix classification for rehabilitation. Boston, MA 2000-2001.
6. Zorowitz, R.D., Effectiveness of Post-Stroke Rehabilitation Interventions. ISIS-ICOR, Inc., Salt Lake City, UT, 2001-2005.
7. Zorowitz, R.D. Investigation of the Administration of Baclofen Injection for the Management of Spasticity Associated with Stroke. Medtronic, Inc., Minneapolis, MN, 2001-2002.
8. Zorowitz, R.D. Evaluation of the Up N Go Partial Weight Support Walker during Inpatient Rehabilitation. Benjamin Franklin Technology Partners, East Norriton, PA., 2002-2005.

Academic Committees:

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| 1982-1985 | Tulane University Medical Musicians Society |
| 1983-1985 | Student Advisory Board, Tulane University Medical School |
| 1987-1989 | RICIS Physician Users Committee, Rehabilitation Institute of Chicago |
| 1989-1995 | Research Committee, Department of Physical Medicine and Rehabilitation, UMDNJ-New Jersey Medical School |
| 1992-1995 | Clinical Services Committee, Department of Physical Medicine and Rehabilitation, UMDNJ-New Jersey Medical School |
| 1992-1995 | Chairman, Institutional Review Board, Kessler Institute for Rehabilitation |
| 1992-1995 | Chairman, Library Committee, Kessler Institute for Rehabilitation |
| 1991-1995 | Medical Advisory Board, International Foundation of Performing Arts Medicine, Inc. |
| 1997-1998 | Executive Committee, Department of Rehabilitation Medicine, University of Pennsylvania |

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| 1997 | Neuroscience Quality Improvement Committee Hospital of the University of Pennsylvania |
| 1999-2006 | Education Committee, Department of Physical Medicine and Rehabilitation, University of Pennsylvania |
| 1999-2006 | Research Committee, Department of Physical Medicine and Rehabilitation, University of Pennsylvania |
| 2000-2006 | Clinical Effectiveness Quality Improvement Committee, Hospital of the University of Pennsylvania |
| 2001-2002 | Billing Oversight Committee, Hospital of the University of Pennsylvania |
| 2002-2006 | Executive Committee, Department of Physical Medicine and Rehabilitation, University of Pennsylvania |

Major Teaching and Clinical Responsibilities:

1. Bedside Medical Student Instruction
Rehabilitation Institute of Chicago, Chicago, IL
2. Bedside Medical Student and Resident Instruction
Kessler Institute for Rehabilitation, East Orange, NJ
3. Bedside Medical Student and Resident Instruction
University of Pennsylvania School of Medicine, Philadelphia, PA
4. RM 201 – Clinical Clerkship in Neurehabilitation, University of Pennsylvania School of Medicine, Philadelphia, PA

Lectures By Invitation:

Local:

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| July 12-13, 1988 | “Laboratory Values.” Medical Student Externship in Physical Medicine and Rehabilitation, Rehabilitation Institute of Chicago, Chicago, IL |
| Aug. 18, 1988 | “Brachial Plexus and Lumbosacral Plexus.” Resident Lecture Series in Anatomy and Kinesiology, Rehabilitation Institute of Chicago, Chicago, IL |
| June 1, 1989 | “F-Wave and H-Reflex.” Resident Lecture Series in Neurophysiology, Rehabilitation Institute of Chicago, Chicago, IL |
| 1990-1995 | “Medical Aspects of Stroke Rehabilitation.” Stroke Education Series for Patients and Families, Kessler Institute for Rehabilitation East Facility, East Orange, NJ (monthly) |
| 1990-1995 | “Stroke Rehabilitation.” Resident Lecture Series, UMDNJ - New Jersey Medical School, Department of Physical Medicine and Rehabilitation, Newark, NJ (yearly) |
| 1991-1995 | “Stroke Rehabilitation.” Medical Student Lecture Series, UMDNJ - New Jersey Medical School, Department of Physical Medicine and Rehabilitation, Newark, NJ (5 times a year) |
| Dec., 1992 | “Upper Extremity Orthotics in Stroke and Traumatic Brain Injury.” Upper Extremity Orthotics for Residents, Kessler Institute for Rehabilitation, West Orange, NJ |
| 1993-1994 | “Human Subjects, Instructional Review Board, and Informed Consent.” Resident Research Course, UMDNJ - New Jersey Medical School, Department of Physical Medicine and Rehabilitation, Newark, NJ (yearly) |

- 1993-1995 "Writing Therapy Prescriptions." Resident Lecture Series, UMDNJ - New Jersey Medical School, Department of Physical Medicine and Rehabilitation, Newark, NJ (yearly)
- Feb. 3, 1993 "Dysphagia following Stroke." Flushing Hospital Medical Center Grand Rounds, Flushing NY
- Oct. 28, 1993 "Stroke Rehabilitation." Burdette Tomlin Medical Center Grand Rounds, Cape May Court House, NJ
- Nov. 9, 1993 "Dysphagia following Stroke." Mountainside Hospital Medical Center Grand Rounds, Glen Ridge/Montclair, NJ
- Dec., 1993 "Upper Extremity Orthotics in Stroke and Traumatic Brain Injury." Upper Extremity Orthotics for Residents, Kessler Institute for Rehabilitation, West Orange, NJ
- Feb. 2, 1994 "Dysphagia following Stroke." Nassau County Medical Center, Department of Physical Medicine and Rehabilitation Grand Rounds, East Meadow, NY
- Nov. 16, 1994 "Stroke Rehabilitation for Nursing Assistants." West Essex Community Health Service, Verona, NJ
- May 3, 1995 "Dysphagia After Stroke." University of Pennsylvania Medical Center, Department of Rehabilitation Medicine Grand Rounds, Philadelphia, PA
- Nov. 30, 1995 "New Concepts in Stroke Rehabilitation." Philadelphia Society of Physical Medicine and Rehabilitation, Philadelphia, PA
- Dec. 13, 1995 "Shoulder Subluxation after Stroke." University of Pennsylvania Medical Center, Department of Rehabilitation Medicine Grand Rounds, Philadelphia, PA
- Aug. 23, 1996 "Dysphagia After Stroke." Medical College of Virginia, Department of Physical Medicine and Rehabilitation Grand Rounds, Richmond, VA
- Aug. 23, 1996 "Spasticity: Mechanisms and Management." Medical College of Virginia, Department of Physical Medicine and Rehabilitation Grand Rounds, Richmond, VA
- Nov. 27, 1996 "Stroke Rehabilitation." Resident Lecture Series, University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- Dec. 18, 1996 "Spasticity: Mechanisms and Management." Resident Lecture Series University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- Jan. 10, 1997 "Stroke Rehabilitation." Resident Lecture Series, University of Pennsylvania Medical Center, Department of Neurology, Philadelphia, PA
- Feb. 11, 1997 "Stroke Rehabilitation." LaSalle University, Department of Nursing, Philadelphia, PA
- Mar. 20, 1997 "Prosthetics, Orthotics, and Assistive Devices." Outpatient Management Series, University of Pennsylvania Medical Center, Department of Medicine, Philadelphia, PA
- May 19, 1997 "Spasticity: Mechanisms and Management." University of Pennsylvania Medical Center, Department of Anesthesiology, Philadelphia, PA
- Oct. 31, 1997 "Spasticity: What Is It and What Can We Do?" (Selzer, M.D.) New Therapies for Neurological Diseases. University of Pennsylvania, Department of Neurology, Philadelphia, PA

- Nov. 3, 1997 “Future Trends.” Stroke Interdisciplinary Care Across the Continuum. Lake Forest Hospital, Lake Forest, IL
- Sept. 24, 1997 “Medical Complications after Stroke.” Gerontology Society of Pennsylvania, Philadelphia, PA
- Jan. 21, 1998 “Dysphagia after Stroke.” Resident Lecture Series, University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- Feb. 6, 1998 “Dysphagia following Stroke.” Resident Didactic Series, University of Alabama, Department of Physical Medicine and Rehabilitation, Birmingham, AL
- Feb. 13, 1998 “Complex Regional Pain Syndrome.” National Association of Rehabilitation Professionals in the Private Sector, Pennsylvania Chapter, Philadelphia, PA
- Feb. 18, 1998 “Dysphagia after Stroke”. Resident Didactic Series, University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- Mar. 18, 1998 “Wheelchairs, Prosthetics, Orthotics, Etc.” Outpatient Management Series, Presbyterian Medical Center, Department of Internal Medicine, Philadelphia, PA
- Mar. 19, 1998 “Wheelchairs, Prosthetics, Orthotics, Etc.” Outpatient Management Series, University of Pennsylvania Medical Center, Department of Internal Medicine, Philadelphia, PA
- Apr. 30, 1998 “Stroke Rehabilitation.” Community Medical Center Grand Rounds, Toms River, NJ
- June 17, 1998 “Spasticity: Mechanisms and Management.” Resident Lecture Series University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- July 30, 1998 “Wheelchairs, Prosthetics, Orthotics, Etc.” University of Pennsylvania Medical Center, Department of Internal Medicine, Philadelphia, PA
- Oct. 28, 1998 “Concepts in Stroke Rehabilitation.” Talking About Your Health: News from Penn Specialists. Penn Medicine at Radnor, Radnor, PA
- Feb. 26, 1999 “Clinical Trial of BOTOX® for the Treatment of Upper Limb Spasticity in Post-Stroke Patients.” Research Seminar Series, University of Pennsylvania Medical Center, Department of Rehabilitation Medicine
- Aug. 4, 1999 “Introduction to the Consult Service.” Resident Lecture Series, University of Pennsylvania Medical Center, Philadelphia, PA
- Aug. 10, 1999 “Rehabilitation of the Stroke Patient.” Rehabilitation Medicine Series. JFK Johnson Rehabilitation Institute, Edison, NJ
- Oct. 13, 1999 “Concepts in Stroke Rehabilitation.” Talking About Your Health: News from Penn Specialists. Penn Medicine at Radnor, Radnor, PA
- Nov. 24, 1999 “FIM Teaching and Training.” Resident Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Dec. 1, 1999 “Neurogenic Bowel and Bladder.” Residents Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Dec. 22, 1999 “Spasticity: Mechanisms and Management.” Resident Lecture Series,

- University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- Dec. 23, 1999 “Current Concepts in Neurorehabilitation.” Grand Rounds, Department of Orthopedics, University of Pennsylvania Medical Center, Philadelphia, PA
- Jan. 5, 2000 “New Concepts in Neurorehabilitation.” Resident Lecture Series, University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- Jan. 12, 2000 “Stroke Rehabilitation.” Resident Lecture Series, University of Pennsylvania Medical Center, Department of Rehabilitation Medicine, Philadelphia, PA
- Feb. 2, 2000 “Dysphagia after Stroke.” Residents Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Feb. 3, 2000 “Current Concepts in Neurorehabilitation.” Grand Rounds, University Of Pennsylvania Medical Center, Philadelphia, PA
- Feb. 24, 2000 “Rehabilitation of the Stroke Survivor” Continuing Medical Education Conferences, Providence St. Joseph Medical Center, Burbank, CA
- Mar. 29, 2000 “The Hemiplegic Shoulder.” Residents Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- May 25, 2000 “The Road of Rehabilitation: The Method Behind the Madness.” Grand Rounds, Department of Neurosurgery, University of Pennsylvania Medical Center, Philadelphia, PA
- May 25, 2000 “Stroke Rehabilitation Outcomes.” Division of Occupational and Physical Therapy, Department of Neurosurgery, University of Pennsylvania Medical Center, Philadelphia, PA
- May 30, 2000 “Concepts in Stroke Rehabilitation.” Implementing Best Practices in Stroke Care. Delaware Valley Healthcare Council of HAP and Kepro, Philadelphia, PA
- Aug. 17, 2000 “Stroke Rehabilitation.” Independence Rehab, Cherry Hill, NJ
- Mar. 8, 2001 “Concepts in Stroke Rehabilitation.” Medical Grand Rounds, Bryn Mawr Hospital, Bryn Mawr, PA
- Nov. 28, 2001 “Stroke Rehabilitation.” Residents Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Dec. 5, 2001 “Shoulder Subluxation after Stroke.” Grand Rounds, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Dec. 14, 2001 “Stroke Rehabilitation.” Fellows Lecture Series, Division of Geriatrics, Department of Internal Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Dec. 14, 2001 “Physical Therapy.” Fellows Lecture Series, Division of Geriatrics, Department of Internal Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- July 3, 2002 “Introduction to Consult Service.” Resident Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center,

- Philadelphia, PA
- Aug. 7, 2002 “Clinical Effectiveness Quality Improvement.” Resident Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Nov. 6, 2002 “Current Concepts in Stroke Rehabilitation.” Department of Rehabilitation Medicine, Thomas Jefferson University, Philadelphia, PA
- Jan. 17, 2003 “Administrative Issues in Physical Medicine and Rehabilitation.” Resident Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Jan. 17, 2003 “Tales that Thin Your Blood.” Clinical Neuroscience Track, Department of Neuroscience, University of Pennsylvania Medical Center, Philadelphia, PA
- Mar. 21, 2003 “Speech-Language Disorders.” Fellows Lecture Series, Division of Geriatrics, Department of Internal Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- May 2, 2003 “Stroke Rehabilitation.” Grand Rounds, Division of Geriatrics, Department of Internal Medicine, University of Pennsylvania School of Medicine
- May 8, 2003 “Brain Tumor Rehabilitation.” Brain Tumor Symposium, Division of Neuro-Oncology, Department of Neurology, University of Pennsylvania School of Medicine
- Aug 8, 2003 “The Road to Rehabilitation: The Method Behind the Madness.” Grand Rounds, Department of Internal Medicine, University of Pennsylvania School of Medicine
- Sep 18, 2003 “Spasticity: Mechanisms and Practical Considerations.” Resident Lecture Series, Department of Rehabilitation Medicine, University of Pennsylvania School of Medicine
- Sep 18, 2003 “Failure Mode and Effects Analysis: Subcutaneous Heparin.” Piersol Rehabilitation Unit, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center
- Dec 8, 2003 “The Road to Rehabilitation: The Method Behind the Madness.” Grand Rounds, Division of Vascular Surgery, Department of Surgery, University of Pennsylvania School of Medicine
- Dec. 19, 2003 “Concepts in Physical Therapy.” Division of Geriatrics, Department of Internal Medicine, University of Pennsylvania School of Medicine
- Mar. 16, 2004 “Geriatric Rehabilitation.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- Apr. 30, 2004 “Speech-Language Disorders.” Fellows Lecture Series, Division of Geriatrics, Department of Internal Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- Sept. 1, 2004 “Current Concepts in Stroke Rehabilitation.” Department of Rehabilitation Medicine, Thomas Jefferson University, Philadelphia, PA
- Dec. 21, 2004 “Spasticity: Mechanisms and Practical Considerations.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- Dec. 21, 2004 “Speech-Language Disorders.” Resident Lecture Series, Department of

- Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- Jan. 28, 2005 “Physical Therapy.” Fellows Lecture Series, Division of Geriatrics, Department of Internal Medicine, University of Pennsylvania School of Medicine
- Feb. 10, 2005 “Bowel and Bladder Management.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- Feb. 10, 2005 “Vascular Dementia.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- May 3, 2005 “Update: Medicare Regulations on Inpatient Rehabilitation Facilities.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- May 10, 2005 “Stroke and Metabolic Diseases.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- July 5, 2005 “The Road to Rehab: The Method behind the Madness.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- Sep. 15, 2005 “Spasticity: Mechanisms and Practical Considerations.” Grand Rounds, Department of Neurology, University of Pennsylvania School of Medicine
- Dec. 6, 2005 “Brainstem Stroke Syndromes.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- Mar. 21, 2006 “Neurogenic Bowel and Bladder.” Resident Lecture Series, Department of Physical Medicine and Rehabilitation, University of Pennsylvania School of Medicine
- Mar. 27, 2006 “Stroke Management: The Rehabilitation Phase.” 2006 Neuro Nursing Symposium, University of Pennsylvania Health System

Regional:

- 1991-2002 “Stroke Rehabilitation.” A Review Course in Physical Medicine and Rehabilitation, UMDNJ - New Jersey Medical School, Department of Physical Medicine and Rehabilitation, Newark, NJ (course held annually in March)
- 1992-2004 “Stroke: Diagnosis and Treatment.” A Review Course in Physical Medicine and Rehabilitation, UMDNJ - New Jersey Medical School, Department of Physical Medicine and Rehabilitation, Newark, NJ (course held annually in March)
- 2001-2004 “Adult Neurogenic Communication Disorders and Dysphagia.” A Review Course in Physical Medicine and Rehabilitation, UMDNJ-New Jersey Medical School, Department of Physical Medicine and Rehabilitation, Newark, NJ (course held annually in March)
- Feb., 1995 “Upper Extremity Orthotics in Stroke and Traumatic Brain Injury.”

- Upper Extremity Orthotics for Residents, Kessler Institute for Rehabilitation, West Orange, NJ
- Sep. 28, 1995 “Neurologic Rehabilitation for Nursing Assistants.” West Essex Community Health Service, Verona, NJ
- Apr. 6, 1997 “The First Phase of Recovery - Inpatient.” Rehabilitation and Research: Implications for Care. Northern New Jersey Robert J. Kennedy Chapter, National Stroke Association, First Annual New Jersey Stroke Conference, West Orange, NJ
- Mar. 4, 1998 “The First Phase of Recovery - Inpatient Rehabilitation and Research - Implications for Care.” New Concepts in Stroke Rehabilitation. Gerontology Society of New Jersey, Lincoln Park, NJ
- June 12, 1999 “Spasticity Management in Adults and Children: Workshop Demonstrating the Use of Botulinum Toxin.” American Academy of Neurology, Philadelphia, PA
- Aug. 7, 2000 “Rehabilitation of the Stroke Survivor.” Rehabilitation Medicine Series. JFK Johnson Rehabilitation Institute, Edison, NJ
- Sept. 23, 2000 “Stroke Panel: The Continuum of Care.” (Kenton, E., Fink, A.) Volunteer Leadership Conference, American Heart Association PA-DE Affiliate, Harrisburg, PA
- Oct. 28, 2000 “Current Concepts in Stroke Rehabilitation.” New Concepts in Stroke Treatment and Rehabilitation, Atlantic Health System Neuroscience Institute and Atlantic Rehabilitation Institute, Morristown, NJ
- Apr. 27, 2001 “Myofascial Dysfunction: Novel Approaches (Galantino, M. L., Shah, J.). Rehabilitation and Symptom Control in Head and Neck Cancer: Preserving Quality of Life Across the Disease Continuum, University of Pennsylvania Cancer Center, West Conshohocken, PA
- Sept. 15, 2001 “Impacting Stroke: How you can make a difference.” Volunteer Leadership Conference, American Stroke Association, Pennsylvania – Delaware Affiliate, Lancaster, PA
- May 23, 2002 "Recovery of the Stroke Survivor." HEALTHSOUTH Reading Rehabilitation Hospital, Reading, PA.
- May 23, 2002 “Stroke Rehabilitation and the Care of Spasticity.” HEALTHSOUTH Reading Rehabilitation Hospital, Reading, PA.
- Aug. 1, 2002 “Stroke: A Medical Emergency (Frazer, D., Callaway, J., Kasner, S.).” Pennsylvania Emergency Health Service Council 25th Statewide EMS Conference, Lancaster, PA.
- Aug. 20, 2002 “Rehabilitation of the Stroke Survivor.” Rehabilitation Medicine Series. JFK Johnson Rehabilitation Institute, Edison, NJ
- Aug. 12, 2003 “Rehabilitation of the Stroke Survivor.” Rehabilitation Medicine Series. JFK Johnson Rehabilitation Institute, Edison, NJ
- Aug. 12, 2003 “Speech-Language Disorders.” Rehabilitation Medicine Series. JFK Johnson Rehabilitation Institute, Edison, NJ
- Sept. 4, 2003 “Take Heart in Lancaster - Stroke Panel [moderator].” Lancaster Cardiovascular Disease Conference, Eden Resort, Lancaster, PA.
- Sept. 12, 2003 “Stroke Update.” Volunteer Leadership Conference, American Heart/Stroke Association, Pennsylvania - Delaware Affiliate, State College, PA

- Oct. 20, 2004 “Stroke Rehabilitation Guidelines.” 2004 Capital Region Stroke Symposium, Hershey, PA
- Aug. 23, 2005 “Speech-Language Disorders.” Rehabilitation Medicine Series. JFK Johnson Rehabilitation Institute, Edison, NJ
- Aug. 23, 2005 “Brainstem Stroke Syndromes.” Rehabilitation Medicine Series. JFK Johnson Rehabilitation Institute, Edison, NJ
- Nov. 10, 2005 “Stroke Rehabilitation in the 21st Century.” 2005 Capital Region Stroke Symposium, Harrisburg, PA

National:

- Nov. 19, 1984 “A Menu-Driven Data Acquisition System for Hand Dynamometry in Arthritics.” Elective in Computers in Clinical Medicine, National Institutes of Health, Washington, DC
- Nov. 16, 1992 “The Future of Stroke Rehabilitation: Dysphagia following Stroke.” American Academy of Physical Medicine and Rehabilitation, 54th Annual Assembly, San Francisco, CA
- Nov. 4, 1993 “Cardiopulmonary Assessment of the Older Rehabilitation Candidate: Assessment of Vagal Tone.” American Academy of Physical Medicine and Rehabilitation, 55th Annual Assembly, Miami Beach, FL
- Jan. 21, 1994 “Prediction of Outcomes following Stroke Rehabilitation.” Association of Academic Physiatrists, Naples, FL
- Oct. 9, 1994 “Brainstem Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 56th Annual Assembly, Anaheim, CA
- Oct. 10, 1994 “Predicting Outcome after Stroke.” (Cifu, D.X.) American Academy of Physical Medicine and Rehabilitation, 56th Annual Assembly, Anaheim, CA
- Oct. 11, 1994 “Response to Medication in the Elderly - Rehabilitation Medicine Update: Spasticity - Mechanisms and Management.” American Academy of Physical Medicine and Rehabilitation, 56th Annual Assembly, Anaheim, CA
- Oct. 12, 1994 “Acute Management Issues in Stroke.” American Academy of Physical Medicine and Rehabilitation, 56th Annual Assembly, Anaheim, CA
- Oct. 25, 1995 “Spasticity: Mechanisms and Management.” Brain Attack and Pharmacotherapeutic Agents. National Stroke and Quality of Life Medical Education Institute, Columbia-Presbyterian Medical Center, New York, NY
- Nov. 18, 1995 “Cortical Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 57th Annual Assembly, Orlando, FL
- Nov. 19, 1995 “Brainstem Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 57th Annual Assembly, Orlando, FL
- Nov. 19, 1995 “Predicting Rehabilitation Potential and Outcomes in the Acute Phase after Stroke.” (Cifu, D.X., Stewart, D.) American Academy of Physical Medicine and Rehabilitation, 57th Annual Assembly, Orlando, FL
- Nov. 19, 1995 “State-of-the-Art Research in Stroke Rehabilitation: Shoulder Subluxation

- after Stroke.” American Academy of Physical Medicine and Rehabilitation, 57th Annual Assembly, Orlando, FL
- Nov. 20, 1995 “Dysphagia after Stroke.” (Palmer, J.) American Academy of Physical Medicine and Rehabilitation, 57th Annual Assembly, Orlando, FL
- Oct. 10, 1996 “Brainstem Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 58th Annual Assembly, Chicago, IL
- Oct. 11, 1996 “Botulinum Toxin Type A in the Treatment of Upper Extremity Spasticity: A Randomized, Double-Blind, Placebo Controlled Trial.” State-of-the-Art Concepts in Neurorehabilitation After Stroke, Critically Reviewed. American Academy of Physical Medicine and Rehabilitation, 58th Annual Assembly, Chicago, IL
- Oct. 11, 1996 “Speech Language Disorders.” American Academy of Physical Medicine and Rehabilitation, 58th Annual Assembly, Chicago, IL
- Oct. 11, 1996 “Dysphagia After Stroke.” (Palmer, J.) American Academy of Physical Medicine and Rehabilitation, 58th Annual Assembly, Chicago, IL
- Oct. 24, 1996 “Vocational Rehabilitation After Stroke.” Brain Attack: Quality of Life Issues. National Stroke and Quality of Life Medical Education Institute, Columbia-Presbyterian Medical Center, New York, NY
- Oct. 18, 1997 “Pathophysiology of Post-Stroke Dysphagia: Nutrition and Swallowing after Stroke.” 1997 North American Stroke Meeting, Montreal, Quebec, Canada
- Nov. 13, 1997 “Speech-Language Disorders.” American Academy of Physical Medicine and Rehabilitation, 59th Annual Assembly, Atlanta, GA
- Nov. 15, 1997 “Stroke Poster Grand Rounds (Moderator).” American Academy of Physical Medicine and Rehabilitation, 59th Annual Assembly, Atlanta, GA
- Nov. 15, 1997 “Dysphagia Research Focusing on Functional Outcome and Cost Effectiveness.” American Academy of Physical Medicine and Rehabilitation, 59th Annual Assembly, Atlanta, GA
- June 26, 1998 “New Concepts in Stroke Rehabilitation.” The National Stroke Medical Education Institute of the American Institute of Life-Threatening Illnesses, Columbia-Presbyterian Medical Center, New York, NY
- Nov. 5, 1998 “Speech-Language Disorders.” American Academy of Physical Medicine and Rehabilitation, 60th Annual Assembly, Seattle, WA
- Nov. 5, 1998 “Neuroexam Made Ridiculously Simple.” (O’Dell, M.W., Lazar, R.B., Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 60th Annual Assembly, Seattle, WA
- Nov. 6, 1998 “Stroke Poster Grant Rounds (Moderator).” American Academy of Physical Medicine and Rehabilitation, 60th Annual Assembly, Seattle, WA
- Nov. 8, 1998 “Stroke Unit Treatment Improves Long-term Quality of Life: A Randomized Controlled Trial.” State-of-the-Art Concepts in Neurorehabilitation After Stroke, Critically Reviewed. American Academy of Physical Medicine and Rehabilitation, 60th Annual Assembly, Seattle, WA
- June 18, 1999 “Decision Making Process in the Treatment of the Young Stroke Survivor.” 6th Annual Professional Stroke Conference. American Heart Association Florida/Puerto Rico Affiliate, West Palm Beach, FL

- Sept. 3, 1999 “Non-Pharmacological Methods in Stroke Rehabilitation.” 1999 North American Stroke Meeting, Snowmass Village, Aspen, CO
- Nov. 11, 1999 “Speech-Language Disorders.” American Academy of Physical Medicine and Rehabilitation, 61st Annual Assembly, Washington, DC
- Nov. 12, 1999 “Brainstem Stroke Syndromes.” American Academy of Physical Medicine and Rehabilitation, 61st Annual Assembly, Washington, DC
- Nov. 12, 1999 “Use of Adaptive Equipment. The Physiatric Treatment Approach to Hemiparetic Shoulder Pain: An Interdisciplinary Approach.” American Academy of Physical Medicine and Rehabilitation, 61st Annual Assembly, Washington, DC
- Nov. 12, 1999 “A New Approach to Retrain Gait in Stroke Patients through Body Weight Support and Treadmill Stimulation. State-of-the-Art Concepts in Neurorehabilitation after stroke, Critically Reviewed.” American Academy of Physical Medicine and Rehabilitation, 61st Annual Assembly, Washington, DC
- Nov. 13, 1999 “Stroke Poster Grand Rounds (Moderator).” American Academy of Physical Medicine and Rehabilitation, 61st Annual Assembly, Washington, DC
- Mar. 2, 2000 “Research Methodology: Which One is Best?” Association of Academic Physiatrists, 36th Annual Meeting, La Jolla, CA
- Mar. 2-4, 2000 “Productive and Ethical Research in the Red World. Single Case Design Workshop (4 sessions),” Association of Academic Physiatrists, 36th Annual Meeting, La Jolla, CA
- Mar. 3, 2000 “Ethics Group Discussion” (Banja, J.D., Cifu, D.X.). Association of Academic Physiatrists, 36th Annual Meeting, La Jolla, CA
- Mar. 4, 2000 “Presenting Research Data and Outcomes: The Art to the Science.” Association of Academic Physiatrist, 36th Annual Meeting, La Jolla, CA
- Mar. 4, 2000 “Meta-Analysis and Review of the Literature.” Association of Academic Physiatrists, 36th Annual Meeting, La Jolla, CA
- May 19, 2000 “Stroke: Diagnosis and Treatment.” A Holistic Approach to Stroke Treatment. Covenant Health Systems, Knoxville, TN
- May 19, 2000 “Stroke Rehabilitation.” A Holistic Approach to Stroke Treatment. Covenant Health Systems, Knoxville, TN
- June 24, 2000 “Stroke Update.” Physical Medicine Symposium. The New, the Controversial, and the Arduous II. Kaiser Permanente Southern California Permanente Medical Group, Long Beach, CA
- Sept. 2, 2000 “Constraint – Induced Movement Therapy.” 2000 North American Stroke Meeting, Toronto, Ontario, Canada
- Sept. 18, 2000 “Stroke Rehabilitation.” Medical Grand Rounds, Forest Park Hospital, St. Louis, MO
- Oct. 17, 2000 “Spasticity: Mechanisms and Practical Considerations.” Department of Physical Medicine and Rehabilitation, The Johns Hopkins University, Baltimore, MD
- Nov. 2, 2000 “Brainstem Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 62nd Annual Assembly, San Francisco, CA
- Nov. 2, 2000 “Speech-Language Disorders.” American Academy of Physical Medicine

- Nov. 2, 2000 And Rehabilitation, 62nd Annual Assembly, San Francisco, CA
“Neuro Exam and Diagnostic Dilemmas.” (Friedman, G.S., Lazar, R.B., Ng, W.). American Academy of Physical Medicine and Rehabilitation, 62nd Annual Assembly, San Francisco, CA
- Nov. 4, 2000 “Stroke Poster Grand Rounds (moderator).” American Academy of Physical Medicine and Rehabilitation, 62nd Annual Assembly, San Francisco, CA
- Nov. 5, 2000 “Transplantation of cultured neural cells for patients with stroke.” State-of-the-Art Concepts in Neurorehabilitation, Critically Reviewed. American Academy of Physical Medicine and Rehabilitation, 62nd Annual Assembly, San Francisco, CA
- Nov. 5, 2000 “There’s No Place Like Home: An Evaluation of Early Supported Discharge for Stroke.” State-of-the-Art Concepts in NeuroRehabilitation, Critically Reviewed. American Academy of Physical Medicine and Rehabilitation, 62nd Annual Assembly, San Francisco, CA
- Jan. 15, 2001 “Stroke Rehabilitation Outcomes.” Kessler Medical Rehabilitation Research and Education Foundation, West Orange, NJ
- Feb. 4, 2001 “New Concepts in Stroke Rehabilitation.” The 4th National Rehabilitation Symposium and The 1st Regional Meeting of the International Society of Physical and Rehabilitation Medicine, Riyadh Armed Forces Hospital, Saudi Arabia
- Feb. 4, 2001 “Evidence Base for Stroke Rehabilitation.” The 4th National Rehabilitation Symposium and The 1st Regional Meeting of the International Society of Physical and Rehabilitation Medicine, Riyadh Armed Forces Hospital, Saudi Arabia
- Feb. 4, 2001 “Prevention of Medical Complications after Stroke.” The 4th National Rehabilitation Symposium and The 1st Regional Meeting of the International Society of Physical and Rehabilitation Medicine, Riyadh Armed Forces Hospital, Saudi Arabia
- Feb. 15, 2001 “Screening and Cardiovascular Stress Testing of Stroke Patients for Exercise Studies (moderator).” 26th International Stroke Conference, American Stroke Association, Fort Lauderdale, FL
- Feb. 17, 2001 “Miracles Do Occur: Rehabilitation and the Stroke Survivor.” Heart and Stroke 2001, Bayfront Medical Center, St. Petersburg Beach, FL
- Aug. 18, 2001 “Bladder and Bowel Dysfunction after Stroke.” 2001 North American Stroke Meeting, San Diego, CA
- Aug. 17, 2001 “Tales from the Fields: Reports from Multi-Center Stroke Rehabilitation Trials (Moderator).” 2001 North American Stroke Meeting, San Diego, CA
- Nov. 2, 2001 “Rehabilitation and the Stroke Survivor.” Stroke in the New Millenium, Morton Plant Mease Health Care and American Stroke Association, Tarpon Springs, FL
- Dec. 7, 2001 “Rehabilitation and the Stroke Survivor.” Stroke through the Continuum, Sarasota Memorial Hospital and HealthSouth Corp., Sarasota, FL
- Jan. 26, 2002 “Stroke Rehabilitation Management.” Progress in Stroke Prevention and Management, University of Alabama at Birmingham, Birmingham, AL
- Feb. 1, 2002 “Classification of Speech-Language Disorders.” First Neurogenic

- Speech-Language Disorders and Dysphagia Symposium, Izmit Rehabilitation Hospital, Istanbul, Turkey
- Feb. 1, 2002 “Diagnosis of Speech-Language Disorders.” First Neurogenic Speech-Language Disorders and Dysphagia Symposium, Izmit Rehabilitation Hospital, Istanbul, Turkey
- Feb. 2, 2002 “Dysphagia: General Considerations.” First Neurogenic Speech-Language Disorders and Dysphagia Symposium, Izmit Rehabilitation Hospital, Istanbul, Turkey
- Feb. 2, 2002 “Diagnosis of Dysphagia.” First Neurogenic Speech-Language Disorders and Dysphagia Symposium, Izmit Rehabilitation Hospital, Istanbul, Turkey
- Feb. 3, 2002 “Clinical Cases in Dysphagia and Speech-Language Disorders (Donofrio, J.)” First Neurogenic Speech-Language Disorders and Dysphagia Symposium, Izmit Rehabilitation Hospital, Istanbul, Turkey
- Feb. 8, 2002 “Stroke Rehabilitation: 50 Years of Progress (Moderator, Kelly-Hayes, M.)” 27th International Stroke Conference, American Heart Association, San Antonio, TX
- Feb. 8, 2002 “Rehabilitation in Vascular Dementia: How Cholinergic Therapy Improves Patient Performance.” Stroke-Associated Dementia: Emerging Therapeutic Options. BioContinuum Group, Inc., San Antonio, TX
- Mar. 5, 2002 “Keynote Address: Stroke Rehabilitation: 50 Years of Progress?” Stroke Rehabilitation Clinical Practice Guideline Development, Department of Veterans Affairs, Falls Church, VA
- May 4, 2002 “Rehabilitation of the Stroke Survivor.” Building the Future with Bridges from the Past,” Florida Association of Rehabilitation Nurses 25th Annual Education Conference, Orlando, FL.
- Aug. 17, 2002 “Pharmacological Therapies for Spasticity.” 2002 North American Stroke Meeting, Mexico City, Mexico.
- Oct. 4, 2002 "Organized Stroke Care." (Silver, F., Langhorne, P.). Second Atlantic Canada Stroke Conference. Organized Stroke Care: Excellence Through the Continuum, Halifax, Nova Scotia, Canada.
- Oct. 4, 2002 "Prevention and Treatment of Hemiplegic Shoulder Pain." Second Atlantic Canada Stroke Conference. Organized Stroke Care: Excellence Through the Continuum, Halifax, Nova Scotia, Canada
- Nov. 1, 2002 “Issues in Stroke Rehabilitation.” Stroke Belt Consortium, 9th Annual Meeting, Orlando, FL.
- Nov. 1, 2002 “Improving Your Patient’s Motor Control.” Stroke 2002: The Team Approach. National Stroke Association, Orlando, FL.
- Nov. 21, 2002 “Neuro Exam and Diagnostic Dilemmas.” (Friedman, G.S., Lazar, R.B., Ng, W.). American Academy of Physical Medicine and Rehabilitation, 63rd Annual Assembly, Orlando, FL
- Nov. 23, 2002 “Brainstem Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 63rd Annual Assembly, Orlando, FL
- Nov. 24, 2002 “Speech-Language Disorders.” American Academy of Physical Medicine and Rehabilitation, 63rd Annual Assembly, Orlando, FL
- Jan. 10, 2003 “Intramuscular Stimulation for Shoulder Subluxation after Stroke.” Grand Rounds, Department of Physical Medicine and Rehabilitation, University

- of Cincinnati, Cincinnati, OH
- Feb. 15, 2003 “Stroke Rehabilitation Guidelines: Relevance to Acute and Post-Acute Stroke Care.” Recovery and Rehabilitation: From Cerebral Reorganization to Long-Term Outcome. 28th International Stroke Conference, American Heart Association, Phoenix, AZ
- Feb. 15, 2003 “Recovery Oral Abstracts (Moderator, Wagenaar, R.C.).” 28th International Stroke Conference, American Heart Association, Phoenix, AZ
- Oct. 9, 2003 “Neuro Exam and Diagnostic Dilemmas.” (Friedman, G.S., Lazar, R.B., Ng, W.). American Academy of Physical Medicine and Rehabilitation, 64th Annual Assembly, Chicago, IL
- Oct. 10, 2003 “DVA Stroke Rehabilitation Guidelines.” Choosing and Using Relevant Clinical Practice Guidelines. American Academy of Physical Medicine and Rehabilitation, 64th Annual Assembly, Chicago, IL
- Oct. 23, 2003 “Stroke Rehabilitation Guidelines: Relevance in Acute and Post-Acute Stroke Care.” 5th Annual Stroke Symposium 2003: Innovations and Interventions, American Stroke Association, Cuyahoga Falls, OH
- Oct. 24, 2003 “The Road to Rehabilitation: The Method Behind the Madness.” 5th Annual Stroke Symposium 2003: Innovations and Interventions, American Stroke Association, Cuyahoga Falls, OH
- Feb. 5, 2004 “Brain Functional Recovery After Stroke: Implications for Rehabilitation (Moderator, Kelly-Hayes, M.).” 29th International Stroke Conference, American Heart Association, San Diego, CA
- May 7, 2004 “Stroke Rehabilitation Guidelines: Relevance in Acute and Post-Acute Stroke Care.” Stroke: 3rd Annual Update. Medical Perspectives and Therapeutic Interventions, American Stroke Association, Youngstown (Boardman), OH
- May 7, 2004 “The Road to Rehabilitation: The Method Behind the Madness.” Stroke: 3rd Annual Update. Medical Perspectives and Therapeutic Interventions, American Stroke Association, Youngstown (Boardman), OH
- Oct. 8, 2004 “Vascular Dementia.” From the National Stroke Association: Primary and Secondary Stroke Prevention. American Academy of Physical Medicine and Rehabilitation, 65th Annual Assembly, Phoenix, AZ
- Oct. 8, 2004 “Speech-Language Disorders.” American Academy of Physical Medicine and Rehabilitation, 65th Annual Assembly, Phoenix, AZ
- Oct. 9, 2004 “Neuro Exam and Diagnostic Dilemmas.” (Friedman, G.S., Lazar, R.B., Ng, W.). American Academy of Physical Medicine and Rehabilitation, 65th Annual Assembly, Phoenix, AZ
- Oct. 10, 2004 “Brainstem Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 65th Annual Assembly, Phoenix, AZ
- Nov. 3, 2004 “Optimizing Secondary Stroke Risk Reduction.” Stroke Education Program Training Session, New York, NY
- Nov. 12, 2004 “Optimizing Secondary Stroke Risk Reduction.” Stroke Education Program Training Session, Atlanta, GA
- Feb. 28, 2005 “Optimizing Secondary Stroke Risk Reduction.” Stroke Education Program Training Session, Miami, FL

- Apr. 8, 2005 “Anatomy and Stroke Syndromes: Functional Neuroanatomy, Vascular Anatomy, Common Syndromes.” 22nd University of Washington Review Course In Physical Medicine and Rehabilitation, Seattle, WA
- Apr. 8, 2005 “Overview of Stroke Rehabilitation: Rehab Settings, Rehab Team, Common Post-Stroke Impairments, Common Post-Stroke Complications, and Management.” 22nd University of Washington Review Course In Physical Medicine and Rehabilitation, Seattle, WA
- Sept. 8, 2005 “Improving Your Motor Function.” National Stroke Association Southwest Regional Meeting (Stroke Survivors), Scottsdale, AZ
- Sept. 9, 2005 “Overview of the CARF Stroke Specialty Program Standards” (MacDonnell, C.M.). National Stroke Association Southwest Regional Meeting, Scottsdale, AZ
- Sep.15, 2005 “Clinical Practice Improvement Approach to Clinical Trials Research. The Post-Stroke Rehabilitation Outcomes Project (PSROP).” California Rehabilitation Association Rehab Leaders' Annual Meeting, San Francisco, CA
- Oct. 27, 2005 “Brainstem Stroke Syndromes.” (Friedman, G.S.) American Academy of Physical Medicine and Rehabilitation, 66th Annual Assembly, Philadelphia, PA
- Oct. 28, 2005 “Neurological Rehabilitation Poster Grand Rounds [moderator].” American Academy of Physical Medicine and Rehabilitation, 66th Annual Assembly, Philadelphia, PA
- Oct. 28, 2005 “Stroke Update 2005: Diagnosis and Treatment of Stroke in the 21st Century [moderator].” American Academy of Physical Medicine and Rehabilitation, 66th Annual Assembly, Philadelphia, PA
- Oct. 29, 2005 “Domain Management Model and Communicating About Stroke Care Across the Continuum-In a Hospital-Based Inpatient Rehabilitation Facility.” The Domain Management Model: Improving PM&R Care Through Effective and Efficient Communication. American Academy of Physical Medicine and Rehabilitation, 66th Annual Assembly, Philadelphia, PA
- Oct. 30, 2005 “Failure Mode and Effects Analysis.” Clinical Practice Guidelines: Development, Implementation, Quality Improvement, and Barriers. American Academy of Physical Medicine and Rehabilitation, 66th Annual Assembly, Philadelphia, PA
- Dec. 8, 2005 “Treatment Options for Stroke-Related Spasticity.” (Brashear, A.) National Stroke Association Webcast, Englewood, CO
- Jan. 23, 2006 “Depression and Pseudobulbar Affect.” Translating Evidence into Daily Practice. 2006 CARF Aging Services and Medical Rehabilitation International Conference, Tucson, AZ
- Feb. 16, 2006 “Advances in Rehabilitation.” Preventing Strokes and Improving Outcomes. 2006 International Stroke Conference, American Stroke Association, Kissimmee, FL
- Feb. 16, 2006 “CARF Stroke Specialty Program.” Nursing and Rehabilitation Professionals Roundtable Luncheon. 2006 International Stroke Conference, American Stroke Association, Kissimmee, FL

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2. Johnston, M.V., Kirshblum, S., **Zorowitz, R.D.**, Shiflett, S.C.: Prediction of Outcomes following Rehabilitation of Stroke Patients. *Neuro Rehabil* 2(4): 71-96, 1992.
3. Galski, T., Bruno, R.L., **Zorowitz, R.D.**, Walker, J.: Predicting Length of Stay, Functional Outcome, and Aftercare in the Rehabilitation of Stroke Patients: The Dominant Role of Higher-Order Cognition. *Stroke* 24: 1794-1800, 1993.
4. Johnston, M.V., **Zorowitz, R.D.**, Nash, B.: Family Help Available. *Top Geriatr Rehabil* 9(3): 38-53, 1994.
5. Galski, T., **Zorowitz, R.D.**: Predicting Length of Stay in the Rehabilitation of Stroke Patients [letter]. *Stroke* 25: 1295, 1994.
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8. DeMeersman, R.E., Reisman, S.S., Daum, M.C., **Zorowitz, R.D.**, Leifer, M., Findley, T.: Influence of Respiration on Metabolic, Hemodynamic, Psychometric, and R-R Interval Spectral Parameters. *Am J Physiol* 269 (Heart Circ Physiol 38): H1437-H1440, 1995.
9. **Zorowitz, R.D.**, Hughes, M.B., Idank, D., Ikai, T., Johnston, M.V.: Shoulder Subluxation and Pain after Stroke: Correlation or Coincidence? *Am J Occup Ther* 50(3): 194-201, 1996.
10. DeMeersman, R., Reisman, S., Daum, M., **Zorowitz, R.D.**: Vagal Withdrawal as a Function of Audience. *Am J Physiol* 270 (Heart Circ Physiol 39): H1381-H1383, 1996.
11. Chae, J., **Zorowitz, R.D.**, Johnston, MV.: Functional Outcome of Hemorrhagic and Non-hemorrhagic Stroke Patients After Inpatient Rehabilitation: A Matched Comparison. *Am J Phys Med Rehabil* 75(3): 177-182, 1996.
12. Kaye, G., **Zorowitz, R.D.**, Barades, S: The Role of Flexible Fiberoptic Laryngoscopy in Evaluating Aspiration. *Ann Otol Rhinol Laryngol* 106(8): 705-709, 1997.
13. Glasser, L.L., **Zorowitz, R.D.**, Linsenmeyer, T.A.: Continence Status at Rehabilitation Admission Does Not Predict 3- to 4-year Institutionalization. *Top Stroke Rehabil* 4(3): 38-50, 1997.
14. Francisco, G., Chae, J., Chawla, H., Kirshblum, S., **Zorowitz, R.**, Lewis, G., Pang, S.: Electromyogram-Triggered Neuromuscular Stimulation for Improving the Arm Function of Acute Stroke Survivors: A Randomized Pilot Study. *Arch Phys Med Rehabil* 79(5): 570-575, 1998.
15. Chae, J., **Zorowitz, R.**: Functional Status of Cortical and Subcortical Nonhemorrhagic Stroke Survivors and the Effect of Lesion Laterality. *Am J Phys Med Rehabil* 77(5): 415-420, 1998.

16. Glasser, L.L., **Zorowitz, R.D.**, Linsenmeyer, T.A.: Contenance Status at Rehabilitation Admission Does Not Predict 3- to 4-year Institutionalization. *J Rehabil Outcomes Meas* 2(1): 47-55, 1998.
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18. Yu, D.T., Chae, J., Walker, M.E., Kirsteins, A., Elovic, E.P., Flanagan, S.R., Harvey, R.L., **Zorowitz, R.D.**, Frost, F.S., Grill, J.H., Feldstein, M., Fang, Z-P. Intramuscular neuromuscular electric stimulation for poststroke shoulder pain: a multicenter randomized clinical trial. *Arch Phys Med Rehabil* 2004;85:695-704.
19. Hanley, D., Gorelick, P.B., Elliott, W.J., Broder, M.S., Saver, J.L., Kidwell, C.S., Fagan, S.C., Wilson, A., Lennihan, L., Schwer, W.A., Rubenstein, L.Z., Crowell, R.M., Haines, S.J., Lopez, C.C., **Zorowitz, R.**, Dubois, R.W. Determining the appropriateness of selected surgical and medical management options in recurrent stroke prevention: A guideline for primary care physicians from the National Stroke Association work group on recurrent stroke prevention. *J Stroke Cerebrovasc Dis* 13(5): 196-207, 2004.
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23. Conroy B, **Zorowitz R**, Horn SD, Ryser DK, Teraoka J, Smout RJ. An Exploration of Central Nervous System Medication Use and Outcomes in Stroke Rehabilitation. *Arch Phys Med Rehabil* 86(12, Suppl 2), S73-S81, 2005.
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26. **Zorowitz, R.D.**, Smout, R.J., Gassaway, J.A., Horn S.D. Antihypertensive Medication Usage During Stroke Rehabilitation: The Post-Stroke Rehabilitation Outcomes Project (PSROP) *Top Stroke Rehabil* 12(4): 21-27, 2005.
27. **Zorowitz, R.D.**, Smout, R.J., Gassaway, J.A., Horn S.D. Neurostimulant Medication Usage During Stroke Rehabilitation: The Post-Stroke Rehabilitation Outcomes Project (PSROP). *Top Stroke Rehabil* 12(4): 28-36, 2005.

28. **Zorowitz, R.D.**, Smout, R.J., Gassaway, J.A., Horn S.D. Usage of Pain Medications During Stroke Rehabilitation: The Post-Stroke Rehabilitation Outcomes Project (PSROP) *Top Stroke Rehabil* 12(4): 37-49, 2005.
29. **Zorowitz, R.D.** Ambulation in a Wheelchair-Bound Stroke Survivor Using a Walker with Body Weight Support: A Case Report *Top Stroke Rehabil* 12(4): 50-55, 2005.

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1. **Zorowitz, R.D.**: Functional Assessment of Stroke Survivors in the United States. *J Clin Rehabil (Japan)* 5(1): 27-39, 1996.

Abstracts

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