**Curriculum Vitae**

Andrew J. Haig, M.D.

Active Emeritus Professor

Physical Medicine and Rehabilitation

The University of Michigan

President, Haig et al., Consulting

President, the International Rehabilitation Forum

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**Curriculum Vitae**

**Andrew J. Haig, M.D.**

**EDUCATION AND TRAINING**

9/1976-5/1980 B.S., University of Wisconsin – Milwaukee, Milwaukee, Wisconsin (Medical Science with Honors, 3 year program)

8/1979-5/1983 M.D., Medical College of Wisconsin, Milwaukee, Wisconsin

6/1983-6/1984 Internship, Northwestern University, Department of Medicine, Chicago, Illinois

6/1983-6/1986 Residency, Northwestern University, Department of Rehabilitation Medicine, Rehabilitation Institute of Chicago, Chicago, Illinois

## CERTIFICATION AND LICENSURE

1984-1986 State of Illinois (Trainee)

1986-present State of Vermont 42.0007461

1989-present State of Wisconsin 30569-20

1996-present State of Michigan 4301067189

1984 National Board of Medical Examiners USMLE 32806515

1986-present United States Drug Enforcement Agency Controlled Substance Registration, issued June 20, 1986

1987-present American Board of Physical Medicine and Rehabilitation (#2622)

1989-present American Board of Electrodiagnostic Medicine

1993 Advanced Cardiac Life Support (ACLS)

2001 NIH Certified: Protection of Human Research Subjects, University of Michigan Certification Number: 222001-1278-191723

2002-present American Board of Pain Medicine

National Provider Number: 1770665655

2013-present Brunei Ministry of Health medical license T-0357

**ACADEMIC ADMINISTRATIVE, AND CLINICAL APPOINTMENTS**

**Academic Appointments**

8/1986-12/1989 Assistant Professor, Department of Orthopaedics and Rehabilitation, University of Vermont, Burlington, Vermont

2/1990-6/1993 Volunteer Clinical Assistant Professor, Medical College of Wisconsin, Milwaukee, Wisconsin

6/1993-present Volunteer Clinical Associate Professor, Medical College of Wisconsin, Milwaukee, Wisconsin

2/1996-8/2000 Assistant Professor, Departments of Physical Medicine and Rehabilitation and Surgery, University of Michigan Health Systems, Ann Arbor, Michigan

9/2000-8/04 Associate Professor, Department of Orthopedic Surgery, University of Michigan Health Systems, Ann Arbor, Michigan

9/2000-9/2007 Associate Professor, Department of Physical Medicine and Rehabilitation, University of Michigan Health Systems, Ann Arbor, Michigan

9/2007-1/2016 Tenured Professor, Department of Physical Medicine and Rehabilitation, the University of Michigan.

1/2016-present Active Emeritus Professor, Department of Physical Medicine and Rehabilitation, The University of Michigan

1-2016-present Faculty, Ross School of Business, the University of Michigan

6-2016-present Ad hoc faculty, Grand Valley State University

**Administrative Appointments**

1980-1983 Statistical Liaison, Medical College of Wisconsin, Departments of Biostatistics & Medicine, Milwaukee, Wisconsin

* 1. Medical Director, Center for Rehabilitation Services, Theda Clark Regional Medical Center, Neenah, Wisconsin. Developed an award winning comprehensive rehabilitation program including an 18 bed inpatient program, consultation services at two hospitals, outpatient clinics, spine and sports program, and outreach clinics at 4 rural hospitals.
  2. Developer and co-director, Novus Occupational Health Program, Theda Clark Regional Medical Center, Neenah, Wisconsin. Developed business model including marketing strategies and clinical programs. Recruited and trained an Occupational Medicine physician to manage the clinic.

1997-1999 Director, Workwise Occupational Rehabilitation Program, University of Michigan Health Systems, Ann Arbor, Michigan. Developed programs and marketing strategies which were later incorporated into M-Works, the university occupational health service.

1996-2002 Founding Director, The Spine Program, University of Michigan Health Systems, Ann Arbor, Michigan. Developed and executed administrative, clinical, education, and research plans for a new 20,000 sq. foot multidisciplinary clinic in conjunction with an executive committee of 10 department chairs and hospital administrators.

2002-2003 Academic Sabbatical. 1. Attended, assisted, and taught corporate leadership with Prof. Noel Tichy, University of Michigan School of Business. 2. Based at The University of Vienna, Austria, explored the interaction between multinational corporations and local health care systems in Europe.

2006-present President, Haig et al., Consulting [www.haigetal.com](http://www.haigetal.com) (Registered in Michigan as Rehabilitation Team Assessments, LLC.) Consulting to healthcare systems and payors on program development.

2012-2015 Director, Cancer Rehabilitation Program. University of Michigan Health System

2012-2015 Director, e-Health Telemedicine Center. University of Michigan Health System

2016-2017 Vice President for Accountable Care and Medical Informatics, Mary Free Bed Rehabilitation Hospital system, Grand Rapids, MI

**Clinical Appointments**

Active Medical Staff

1986-1989 Medical Center Hospital of Vermont, Burlington, Vermont

1989-1996 Theda Clark Regional Medical Center, Neenah, Wisconsin

1990-1996 Clement Zablocki VA Medical Center, Milwaukee, Wisconsin

1990-1996 Joint Medical Staff, St. Elizabeth Hospital/Appleton Medical Center, Appleton, Wisconsin

1996-2002 Veterans Affairs Ann Arbor Healthcare System (VAAHS), Ann Arbor, Michigan

1996-2016 University of Michigan Health Systems, Ann Arbor, Michigan

2012-present Jerudong Park Medical Center, Jerudong Park, Brunei

2016-2017 Mary Free Bed Rehabilitation Hospital, Grand Rapids, Michigan

Consulting Medical Staff

1992-1995 Ripon Memorial Hospital, Ripon, Wisconsin

1992-1995 Calumet Medical Center, Chilton, Wisconsin

1992-1995 Riverside Medical Center, Waupaca, Wisconsin

1992-1995 Shawano Community Hospital, Shawano, Wisconsin

1992-1995 New London Family Medical Center, New London, Wisconsin

**RESEARCH INTERESTS**

1. Back pain and the paraspinal muscles: Anatomy, neurophysiology, pathophysiology, electrodiagnosis, and biomechanics.

2. Multidisciplinary rehabilitation: Team functioning, occupational rehabilitation, telerehabilitation

3. Leadership: Optimizing team performance in healthcare; Building sustainable medical rehabilitation in rural and developing regions.

4. Global health policy: Sustainable medical rehabilitation, disaster rehabilitation, health policy.

**GRANTS**

*Summary of Major Previous Grants*

Vermont Rehabilitation Engineering Center for Low Back Pain. National Institute for Disability and Rehabilitation Research. (NIDRR) $500,000-$750,000/year. J.W. Frymoyer, M. H. Pope and M. Krag, Co-Principal Investigators; University of Vermont; 1986-1994. Project 5 - Orthoses: Project Director (1986-89); Project 4 - Exercise: Co-Director; Project 9 - Workload Assessment: Consultant. Consultants on Projects 4, 5, and 9 (1989-1994).

Locked-In Syndrome; Scholl Research Fellowship. 1985-1986; Rehabilitation Institute of Chicago, Principal Investigator.

Determination of Sensitivity, Specificity, and Repeatability of Paraspinal Mapping (Quantified Needle Electromyography of the Paraspinal Muscles) in Persons with Herniated Nucleus Pulposus; Physical Medicine and Rehabilitation Educational and Research Foundation Young Investigator Award. 1990; Principal Investigator.

Outpatient Planning for Persons with Physical Disabilities: A Randomized Prospective Trial of Physiatrists Alone vs. a Multidisciplinary Team.; Robert Wood Johnson Foundation through The Funding Partnership for Persons with Disabilities. $50,000.00 Theda Clark Regional Medical Center, Neenah Wisconsin. 1992; Principal Investigator.

Michigan Rehabilitation Engineering and Research Center for Ergonomics. NIDRR $4,000,000 T. Armstrong, Principal Investigator. T. Armstrong, A. Haig and R. Werner, Co-Directors. 1998-2002: Principal Investigator on projects: Core A: Assessing the Disabled Worker. Intervention B (with D. Chaffin) Humosym analysis of reaching movement in persons with back pain and spinal cord injuries. Intervention D: Exercises for Specific Back Muscles. Biomechanics B (with M. Keyserling) Assessment of Tolerance of Static Postures.

Manual Therapy and Exercise for Chronic Low Back Pain. NIH/NIHCD-NCMRR--1 RO3 HD35893-01A1. $144,301. M. Geisser, Principal Investigator, A Haig, Co-Investigator. 8/98-7/00.

Analysis and Simulation of Upper Body Motion of Patients Affected by Low Back Pain or Spinal Cord Injury. Humosym consortium, $60,000. AJ Haig and D Chaffin Principal Investigators. January 2000.

Therapeutic Exercise in Lumbar Spinal Stenosis. NIH/NIAMS/Michigan Arthritis Center/Claude E. Pepper Grant: $25,000 A. Wallbom, Principal Investigator. AJ Haig, Consultant. 2000-2001.

American Association of Electrodiagnostic Medicine Foundation for Research and Education (AAEM-FRE), Flexion relaxation phenomenon in surgical low back pain patients. Agnes Wallbom, PI. Co-investigators: Julian T. Hoff, Andrew J. Haig, Michael E. Geisser, effective June 1, 2001. $20,000.00, one-year, University of Michigan.

The Relationship Between Paraspinal Muscle Denervation and Symptoms in Lumbar Spinal Stenosis. NIH/NINDS 1R01NS41855-01. $1,058,126. AJ Haig, Principal Investigator. 2001-2004. Administrative continuation Grant $50,000, 2005.

The Ford/University of Michigan International Health Initiative—web based education for Ford physicians worldwide. Ford Motor Company. $100,000. AJ Haig, Principal Investigator, 2002-2003.

Changes in posture, vital signs, exertion, and comfort levels in adolescents wearing back packs with and without an abdominal support. Haig AJ, Principal Investigator. $3529, Outdoor Medical Research, LLC. 2002-2003.

University of Michigan Telemedicine Project. Nypaver M., Principal Investigator. Haig AJ, Consultant.

International Travel Grant for travel to the University of Vienna, Austria, and The World Health Organization in Geneva, Switzerland. The Center for International Rehabilitation Research Information and Exchange (CIRRIE), funded by NIDRR. 2004.

Exploration of Rehabilitation Needs in Ghana. University of Michigan Global REACH program, $10,000. Anthony Chiodo, M.D. Principal Investigator. Haig AJ, co-investigator. 2004-2005.

Building Ghana’s Medical Rehabilitation Infrastructure. $35,000, Haig AJ, Principal Investigator. Global Intercultural Experience for Undergraduates. University of Michigan. 2006-2007.

Blue Cross Blue Shield of Michigan Foundation McDevitt Excellence in Research Award. $10,000 unrestricted research funding used for development of the Language Independent Functional Evaluation. 2007

Paraspinal Denervation in Low Back Pain 9R01HD059259-04A2. $1,115,000, Haig AJ Principal Investigator. 2008-2010.

Building sustainable health care systems in Uganda. William Davidson Institute. William Chavey and PI’s, Haig Consultant for Kume Hospital. 2009.

Community Interventions for Low Back Pain. $306,000. Haig AJ Principle Investigator. Funded by the Center for Healthcare Research and Transformation to Rehabilitation Team Assessments, LLC. 2009-2011.

Developing a Disaster Acute Rehabilitation Team (DART) Training program for the International Society for Physical and Rehabilitation Medicine. $20,000. University of Michigan Center for Global Health, 2012.

Building the Brunei National Rehabilitation Center. Jerudong Park Medical Center and the University of Brunei Darussalam. 30% effort. July 1, 2012, ongoing contract.

Leadership Development Process Strategic Support. The Veterans Administration Office of Human Resources and Administration – Task Order Subcontract 108810 through the MITRE corporation to the University of Michigan Ross School of Business. Tichy N, PI. Haig AJ co-I. 30% effort, January 2016 – December 2016.

*Faculty advisor for student grants:*

A prospective comparison of monopolar and concentric MiniPM paraspinal electromyography. $2000 sub competition within the University of Michigan/Michigan State University/Ann Arbor Center for Independent Living (UMHS/MSU/AACIL) Rehabilitation Research Training Center. J. Koch (spine fellow) Principal Investigator, AJ Haig, faculty advisor. 1999.

The Effect of Patient Questionnaires on Management of Low Back Pain in the Emergency Department. $2000 sub competition within the UMHS/MSU/AACIL Rehabilitation Research Training Center. S. Chaudhuri (spine fellow) Principal Investigator, AJ Haig, faculty advisor. 1999.

The prevalence of low back pain in parents of children with disabilities. $2000 sub competition within the UMHS/MSU/AACIL Rehabilitation Research Training Center--H133P990014. H. Tong (spine fellow) Principal Investigator, AJ Haig, faculty advisor. 2000.

The Language Independent Functional Evaluation. Numerous small grants from various sources awarded to Melissa Tinney, M.D., Tony Boggess, D.O. Senthil Jayarajan, Jesse Loar B.S., Siera Goodnight B.S.

Womens’ Access to Healthcare in Botswana. Danielle Dougherty, B.S., Summer Biomedical Research Program, 2012.

Development of telemedicine and rehabilitation. Ethiopia Ministry of Health, with St. Paul University and the University of Michigan, 2014.

(Leadership development for the Veterans Administration) Veterans Administration Office of Human Resources and Administration – Leadership Development Process Strategic Support. VA (prime) MITRE (direct),University of Michigan Ross School of Business. Tichy N, Haig AJ, 2015-2016.

Modification of the Language Independent Functional Evaluation software into a hand-held application. University of Michigan 3-D Computing Lab. Haig AJ, Maslowski E. co-PI’s, 2016.

**HONORS AND AWARDS**

1976 OHE Freshman Honors Society, the University of Wisconsin, Milwaukee

1976 Target MD Honors pre-medical program. Medical College of Wisconsin and the University of Wisconsin, Milwaukee

1985 Scholl Research Fellowship. Rehabilitation Institute of Chicago

1988 Outstanding Young Men of America

1989 Young Investigator Award. American Association of Electrodiagnostic Medicine

1990 Young Investigator Award. Physical Medicine and Rehabilitation Education and Research Foundation

1992 Outstanding Medical Rehabilitation Program. Rehabilitation for Wisconsin (RFW)

1992 First Annual Youssef Gabriel Memorial Lectureship. Wausau Hospital, Wausau, Wisconsin

1993 American Academy of Family Practice Volunteer Teaching Award

1994 Richard and Hinda Rosenthal Foundation Award. American Academy of Physical Medicine and Rehabilitation

1995-96 Listed in the Sterling Who’s Who Directory

1996-97 Listed in The Best Doctors in America: Midwest Region. A survey conducted by Woodward/White, Inc.

1998 Listed in The Best Doctors in America: National. Woodward/White, Inc.

1998 Best Poster. Association of Academic Physiatrists

2000-2009 Listed in America’s Top Doctors--National. Connolly Guide, Castle Connolly Medical Ltd.

2000 Patenge Distinguished Lecturer. Michigan State University College of Osteopathic Medicine

1. (National) Outstanding Teacher Award in Physical Medicine and Rehabilitation. University of Medicine and Dentistry of New Jersey.

2002-2009 Listed in The Best Doctors in America. Best Doctors, Inc.

1. Listed in the Marquis Who’s Who in Medicine and Healthcare Directory

2002 Named, Top Doctors in Southeastern Michigan. Hour Magazine

2004 Keynote Speaker, European Society of Physical Medicine and Rehabilitation, Vienna, Austria

2004 Keynote Speaker, 100th anniversary, Geriatriezentrum Am Wienerwald, Vienna, Austria

2005 Listed, AcademicKeys Who's Who in Medical Sciences Education

2005 Finalist, Best Paper Award, International Society for Physical and Rehabilitation Medicine

2005 President’s Special Emphasis Initiative Award, American Association of Neuromuscular and Electrodiagnostic Medicine (AANEM) (Paper #1)

2005 President’s Special Emphasis Initiative Award, AANEM (Paper #2)

2005 President’s Special Emphasis Initiative Award, AANEM (Paper #3)

2005 Runner up. Best abstract describing innovation and/or therapeutics for neuromuscular disease, AANEM

2005-2006 Listed. Guide to America’s Top Physicians. Consumers’ Research Council of America

2007 Phala Helm M.D. Distingushed Lectureship, The University of Texas Southwestern

2007 Association of Academic Physiatrists Excellence in Research Writing Award for best paper published by a physiatrist in 2006.

2007 Physical Medicine and Rehabilitation Education and Research Foundation, Best Paper by a Physiatrist in any peer-reviewed journal in 2006

2007 Blue Cross Blue Shield of Michigan Foundation McDevitt Excellence in Research Award.

2008 Silver Crutch “Best Teacher” award. University of Michigan Department of Physical Medicine and Rehabilitation

2008 Outstanding Clinician Award. American Academy of Physical Medicine and Rehabilitation.

2009 Best Doctors in America. Consumers’ Research Council of America

2009 Keynote Speaker. 2do. Congreso Nacional. La Sociedad Occidental ColegioMedico de Rehabilitacion. (Mexican Society of PM&R)

2010 Keynote Speaker. M.B. Lee , Professor. Hong Kong Orthopedic Association. Hong Kong, China. May 2010

2010 Keynote Speaker. World Federation of Physiotherapists, Africa Congress. Accra Ghana, July 20-23, 2010.

2010 Best Musculoskeletal Research Paper. AAPMR, Seattle.

2014 Keynote Speaker. Colombian Society for Physical and Rehabilitation Medicine.

2015 Senior Medical Student Mentor Award; Danielle Dougherty M.D.

2015 Keynote Speaker, ISPRM 2015, Berlin

2015 Ritchie Lecturer, University of California San Fransisco Spine Program

2016 Keynote Speaker, ISICO, Milan, Italy

2016 The ISSLS Prize, International Society for the Study of the Lumbar Spine.

2016 Distinguished Researcher Award American Association of Neuromuscular & Electrodiagnostic Medicine

2016 Keynote Speaker, IAPMRCON2017, Indian Association for Physical and Rehabilitation Medicine.

*Faculty mentor for student awards*:

1997 Gary Davidoff Research Award (Jennifer Doble, MD)

1. Best Medical Student Research Paper. Association of Academic Physiatrists. (James Levine, BS)

1999 Best Medical Student Research Paper. Association of Academic Physiatrists. (Ethan Booker, BS)

2000 President’s Award. Best Poster. (Henry Tong, M.D.)

2005 Ted Cole Research Award. Melissa Tinney M.D. (faculty mentor)

2006 Kathy Kielb Memorial Lecture, Melissa Tinney, M.D. (faculty mentor)

2008 Adodeji Adewole, M.D. 6 month Globus Award scholarship, International Society for the Study of the Lumbar Spine.

2011 Jenny Thomas Kendall DO. Ted Cole Research Award

2013 Siera Goodnight, best trainee research award. Association of Academic Physiatrists.

2013 Danielle Dougherty. Commendable Essay. Consortium of Universities for Global Health (CUGH)

2014 Farooq Rathore, MBBS, CMH Lahore Medical School, Pakistan, (Haig mentee) awarded the AuthorAID Global Research Mentor award as best mentor in science across all developing countries.

2016 Vanisha Amin BS, Internship, NIH Physical Medicine and Rehabilitation.

2016 Abena Tannor MBBS (Ghana) Malaysia Convention and Visitors Bureau Scholarship to attend ISPRM 2016.

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

American Medical Association

American Academy of Physical Medicine and Rehabilitation

Association du locked-in Syndrome (American corresponding member)

Association of Academic Physiatrists

American Association of Neuromuscular and Electrodiagnostic Medicine

International Rehabilitation Forum. Founding President

International Society for Physical and Rehabilitation Medicine

International Society for the Study of the Lumbar Spine

Prior memberships:

Physiatric Association for Sports, Spine, and Occupational Rehabilitation. Charter Board Member (merged into AAPMR)

Medical Group Management Association

American Congress of Rehabilitation Medicine

Wisconsin State Medical Society

Vermont State Medical Society

Outagamie County (WI) Medical Society

Michigan State Medical Society

(See section on committees and organizations for duties and past memberships)

**EDITORIAL POSITIONS, BOARDS, AND PEER-REVIEW SERVICE**

*Journal* :

1985-frequent Reviewer, Archives of Physical Medicine and Rehabilitation

1993-frequent Reviewer, Journal of Occupational Medicine

1996-present Reviewer, Electromyography and Clinical Neurophysiology

1996-present Reviewer, Muscle and Nerve

1997 Reviewer, Journal of Clinical Neurophysiology

1998-frequent Reviewer, American Journal of Physical Medicine and Rehabilitation

2000 Reviewer, Life Sciences

2003 Reviewer, Disability and Rehabilitation

2004 Reviewer, The Journal of Musculoskeletal Medicine

2004 Reviewer, Journal of Rehabilitation Research and Development

2006 Reviewer, Nature Clinical Practice Neurology

2006 Reviewer, Journal of Neurology

2006 Reviewer, Psychological Reports: Perceptual and Motor Skills

2007 Reviewer, Anatolian Journal of Cardiology

2007 Reviewer, Medical Education

2007 Reviewer, Journal of Bone and Musculoskeletal Rehabilitation

2008 Reviewer, Neurocase

2009 Reviewer, International Journal of Obstetrics and Gynecology

2012 Reviewer, Wiener klinische Wochenschrift

2013 Reviewer, Clinical Anatomy

*Journal editor*:

1996-2004 Associate Editor, Archives of Physical Medicine and Rehabilitation

1998 Guest Editor, Rehabilitation in Review

2000-present Editorial Board, The Spine Journal

2005-2010 Editorial Board, Disability and Rehabilitation

2006-2007 Guest Editor. Disability and Rehabilitation, Special Edition on Rural and Developing World Rehabilitation.

2005-present Editorial Board, Journal of Back and Musculoskeletal Rehabilitation

2006-present Editorial Board (charter member) Ghana Journal of Allied Health Sciences.

2006-2012 Editorial Board, Journal of Rehabilitation Medicine

2007-present Editorial Board, Physical Medicine (Turkish Society of Physical Medicine)

2008-present Associate Editor (charter member), PM&R, The Journal of Injury, Function, and Rehabilitation.

2009-present SPMFR Journal. Sociedade Portuguesa de Medicina Física e de Reabilitação

2013-present Indian Journal of Physical Medicine and Rehabilitation (International advisory Board)

2016-present [International Society for Physical and Rehabilitation Medicine’s yet to be named new journal] founding editorial board

*External reviewer*:

1987 Review panel, National Institute for Disability and Rehabilitation Research, Innovative Research Grant

1996-1998 Examiner, American Board of Electrodiagnostic Medicine

& 2001

1. Invited Participant, “Outcomes in Medical Rehabilitation.” National Advisory Board on Medical Rehabilitation Research, N.I.H.

2002 Review Panel Member, Rehabilitation Engineering Research Centers, National Institute for Disability and Rehabilitation Research

2003 Reviewer, The Comitato Telethon Fondazione ONLUS (Italian Research Foundation)

2005 Reviewer, Natural Sciences and Engineering Research Council of Canada. Discovery Grants

2005 Reviewer, US Army Medical Research and Materiel Command

2006 Veterans Administration Merit Grant Review Panel

2011 Reviewer, WorkSafe BC (Canada) research grants

2011, 2015 Reviewer, Hong Kong Research Programs

2012 Reviewer, Rumanian National Trust Research Program

2013 Reviewer, Austrian National Science Fund

**TEACHING**

(Also see University of Michigan Teaching Portfolio. Most intramural coursework and teaching activities at the University of Vermont and the Medical College of Wisconsin are not reflected in this list.)

Medical Student Global Health and Disparities curriculum development team. 10% effort, 2010-2013, core faculty and student mentor 2013-present.

M-2 Selective: Physical and Mental Disabilities in Low Resource Regions. (course chair, 2012)

*Fellowship Director*:

Thomas Parks, M.D., Jeanette Salone, M.D. (Medical College of Wisconsin)

1997-1998: Carolyn (Ruan) Marquardt, M.D.

1998-1999: Alejandro Perez, M.D., Susan Schmitt, M.D.

1999-2000: John Koch, M.D., Henry Tong, M.D. Sarmistha Chaudhuri, M.D.

2000-2001: Wing Chang, M.D., Mark Harrast, M.D., Irene Young, M.D.

2001-2002: Richard Kendall, D.O., Andre’ Taylor, M.D.

Faculty University of Michigan Spine Fellowship, 2002-present

Faculty University of Michigan Pain Fellowship, 2002-present

*Faculty Advisor*:

Medical Students funded for extended research (usually summer externships) through the Freshman Medical Student Summer Externship and other sources include: Ethan Booker, Derrick Montgomery, Carrie Nicholson, Jamie Levine, AR Harris, A. Padiyar, S. Pandipati T. Kim, Michael Huang, Senthil Jayarajan, Derek Juang, Jesse Loar, Justin Conway,

Medical Students Global Health and Disparities 4 year pathway mentor with M-1 summer externships: Yih-Chieh Chen, Danielle Dougherty. Daniel Pepper, Pooja Agrawal, Jennifer Geiger, John Snider, Julie Blaszczak, Leanne Flygt, Emma Lawrence, Jory Piglowski, Katie Garfield, Shirley Chen, Yasmine White, Pooja Agrawal, Alexandra Alejos,

International Medical Student clinical mentor: Darko, Nana Kunado; Kwame Nkramah University of Science and Technology. Affare Edu, Mr. Nana Kofi; Kwame Nkramah University of Science and Technology; Shaibu, Mr. Alhaji, University of Ghana Medical School; Hottor, Ms. Angela Afi Tugbewofia, UDS School of Medicine – Tamale; Kaleem, Mr. Hassan Kevin UDS School of Medicine – Tamale; Seedah, Mr. Alfred University of Ghana Medical School; Wen, Ms. Huacong (Wendy) Nanjing Medical University; Afosah-Anim, Dr. Claudia, University of Ghana;

Undergraduate summer students sponsored by miscellaneous funding sources, including Project HOPE, the Undergraduate Research Opportunity Program, MSRCAP, Med SOAR, Michigan Health Sciences Summer Institute, etc: \*Known admission to medical school. Ebony Parker\*, Toiya Jimerez, Paul Yang, Janine Filipek, Victoria Frosh, Rebecca Horsch, Marcus Harris, Chris Cooper\*, Marcus Williams, James Carson\*, Jennifer Maertens, Chris Parres\*, Adil Khan\*, Naomi Mendelson, Ben Kelemen\*, Samir Kulkarni\*, Jaymin Patel, Kristin Pozolo, Etsegenet Tizazu, Jonathan Im, Julie Yam, Nickolas Reder\*, Sumeet Singh\*, TJ Tareto, Scarlet Fitzpatrick, Siera Goodnight, Derek Wood\*, Karen Roszel, Lars Johnson\*, Josh Verson\*, Erica Errigo\*, Olubisi Ajetunmobi, Lee Ann Racelis, Mary (Libby) Hobson, Tiffany Loo, Leila Pascual, Vanisha Amin, Juhi Patel, Pravalika Jarugula, Peter Tappenden,

External Advisor, BSc thesis: Halil Hamisi Mnzava, Tumaini University, Kilimanjaro Christian Medical College. Survey on management and rehabilitation of people with physical disabilities in Tanzania. 2007.

Advanced Rehabilitation Research Training Program NIDRR H133P990014. University of Michigan. Faculty Mentor: John Koch, M.D., 1999**.** Sarmsitha Chaudhuri, M.D., 1999. Henry Tong, M.D., 2000. Anne Griffith Hartigan, M.D., 2001. Melissa Tinney, M.D. 2005, Tony Boggess, D.O. 2007, Christy Tomkins Ph.D. 2009, Marsa Moody, M.D., 2011.

Other lead mentorship: Adodeji Adewole, M.D., (Ghana) 6-month International Society for the Study of the Lumbar Spine Globus Fellowship. Gifty Nyante, MS., PT., (University of Ghana) 6-month University Presidential Scholarship, Christy Tomkins, Ph.D., 1-year Postdoctoral fellow (Canada), Asare Christian MD, MPH (Johns Hopkins University; Ghana), Yetsa A. Tuakli-Wosornu, M.D., M.P.H. (Johns Hopkins University; Ghana) Farooq Rathore M.D. (Armed Forces Institute for Rehabilitation Medicine, Pakistan)

*Doctoral Thesis Committee*:

Diane Belongia LeBreck; University of California, San Francisco; Department of Health Psychology 1994

Sundaravalli Sudarsan, University of Michigan College of Engineering, 1998-2002

Nancy Womack, University of Michigan College of Engineering. 2000-2001

Craig Goodmurphy, Department of Anatomy, St. George University, Grenada, West Indies, 2001-2004

Masters Thesis Committee:

Samantha Lamkin; Grand Valley State University, Grand Rapids, Michigan, 2016

*Volunteer Faculty*: Monthly “Dr. Haig Day” with Residents and Fellows at Zablocki VAMC and the Medical College of Wisconsin 1989-1996

*Faculty Director and Sponsor*: Medical College of Wisconsin/Theda Clark Regional Medical Center Joint Electrodiagnostic/Musculoskeletal Fellowship 1993, 1994

*Recurrent internal lectures or series:*

Ambulatory Morning Report. Department of Medicine, University of Michigan. Approximately quarterly 2000-2002 and 2012.

Anatomy and Electromyography of the Paraspinal Muscles. Department of Physical Medicine and Rehabilitation, University of Michigan Health System, Ann Arbor, Michigan, 1996-present.

Physical Medicine and Rehabilitation Residency Rotation Director. Spine Rehabilitation 1996-2002

PM&R 510 medical student lecture series. Back pain. Annual, 1996-2002

Occupational Medicine Resident Rotation Director. Spine Rehabilitation. 1998-2002

Family Practice Resident Rotation Director. Spine Rehabilitation. 1998-2002

Freshman Anatomy Grand Rounds. “The Spine and Spinal Cord” Annual, 1998-2002

Quarterly Neurology—PM&R Electromyography course—lecturer. 1998-present

Faculty Sponsor: Spine Conference weekly interdepartmental CME conference. University of Michigan Health System, 1997-2004

Abnormalities of Gait/Introduction to Physiatry. Freshman Medical School clinical course. 2003, 2004, 2005

*Other teaching:*

“Functional Assessment in the Triage of Low Back Pain Patients.” The University of Michigan, College of Engineering, Ann Arbor, Michigan, 1996

M3 Teaching Conference on Low Back Pain. University of Michigan Health System, Ann Arbor, Michigan 1997

“Back School.” Department of Physical Medicine and Rehabilitation, University of Michigan Health System, Ann Arbor, Michigan 1997

“Publish or Perish.” Department of Physical Medicine and Rehabilitation, University of Michigan Health System, Ann Arbor, Michigan 1997

“Prevention of Back Pain in Industry.” Department of Physical Medicine and Rehabilitation, University of Michigan Health System, Ann Arbor, Michigan 1997

The University of Michigan Practice Guidelines for Acute Low Back Pain. Lectures to Family Practice, Internal Medicine, Physiatry, Neurosurgery, and Obstetrics/Gynecology, Ann Arbor, Michigan, 1997

“Low Back Pain.” Department of Obstetrics and Gynecology, University of Michigan Health System, 1998

Electromyography. University of Michigan Medical School, Ann Arbor, Michigan, 2000

Internship Preceptor/Supervisor: Erin Bacon, Eastern Michigan University, College of Business, Health Administration, 2002

Engineering Design, Rehabilitation in Developing Countries. U of M School of Engineering. Eileen 2008.

**COMMITTEE, ORGANIZATIONAL, AND VOLUNTEER SERVICES**

**Institutional**

(Also see administrative roles above)

*Northwestern University Department of Rehabilitation Medicine, 1984-l986*

1984-1986 Research Committee

* 1. Program Evaluation and Follow-up Committee, Rehabilitation Institute of Chicago

1999-present Class of 1986 alumni representative

*University of Vermont Health Center, 1986-1989*

1988 Medical Records Committee

1988 Occupational Health Development Committee

1986-1989 Director, Electrodiagnostics Laboratory, Department of Orthopedics and Rehabilitation

1986-1989 Laboratory Steering Committee

1988 Provost’s Committee on the Capital Campaign

1988-1989 Sophomore Tutorial, Basic Clerkship

1986-1987 Rehabilitation Program Evaluation & Quality Assurance Committee

1986-1989 Rehabilitation Unit Steering Committee

1987-1989 Safety Committee

*Medical College of Wisconsin, 1990, 1996*

1981-1983 Industrial Medicine Education Task Force, Department of Preventive Medicine

1982-1983 Learning Resource Committee

1990-1996 Research Committee, Department of Physical Medicine and Rehabilitation

*Theda Clark Regional Medical Center, 1989 - 1996*

* 1. Rehabilitation Unit Steering Committee (Chair)
  2. Trauma Program Steering Committee

1989-1993 Safety Committee

1991-1993 Credentials Committee

1991-1994 Institutional Review Committee

*University of Michigan, 1996-present*

1996-2006 Primary Care Low Back Pain Practice Parameter Committee (Co-Chair, first edition)

1996 Department of Physical Medicine and Rehabilitation Cost-Efficiency Committee (Chair)

1996-2002 Department of Physical Medicine and Rehabilitation Faculty Incentive Plan Committee

1997-present Multipurpose Arthritis and Musculoskeletal Diseases Center—Member

1997-2002 M-Works Clinical Steering Committee—Member

1999 Liaison to Chrysler-Daimler Practice Guideline project for low back pain

2000-02 Advisory Committee on Recreational Sports--Member

1999-2002 Student Biomedical Research Committee—Member

2000-present Department of Physical Medicine and Rehabilitation Research Committee Member

2001-2003 Medical School Disease Management Committee—Member

2007-2010 Promotion and Tenure Committee PM+R Department

2010-present Director Cancer Rehabilitation Program

2011-2012 SACUA Executive Performance Committee

2011-2012 Member, Center for Global Health

2010-present Member, Depression Center

2010-present Member, Graduate Medical Education Scholars Program Steering Committee

2010-present Member, Dean’s Global Health and Disparities student pathway organizing committee

2012-present Institute for Healthcare Policy and Research member

2008-present Senate Advisory Committee on University Affairs (SACUA). Development Advisory Committee.

2012-2015 Chair. SACUA (university faculty senate) Development Advisory Committee

2013-present Global REACH (Global health program) Faculty Associate

2013-2015 Director, UMHS e-Health Center; chair telemedicine committee

2014-2015 Dean’s Care At Home Disruptive Innovations Group

2014-present Dean’s Outreach Support Task Group

2014-present Interdisciplinary Education Task Group

**Regional**

Wisconsin State Medical Society, 1989-1995

Outagamie County Medical Society, 1989-1995

American Heart Association, 1990-1995

1990-1995 Wisconsin State Stroke Committee

National Multiple Sclerosis Society, 1992-1995

* 1. Wisconsin State Chapter Professional Advisory Committee

Vermont Association of Rehabilitation Professionals (Charter Member), 1987-1989

Vermont State Medical Society - 1986-1989

1987 Vermont Health Care Review Board

Hospital Review Committee on Low Back Pain

Illinois Academy of Physical Medicine and Rehabilitation - 1983-1986

Wisconsin Back Society, 1994-1995

New England Society of Physical Medicine and Rehabilitation, 1988-1989

Michigan State Medical Society, 2000

Washtenaw County Medical Society, 2000

Greater Detroit Area Health Council, Save Lives Save Dollars committee on back pain. 2008-2012

**National**

American Medical Association, 1979-present

American Academy of Physical Medicine and Rehabilitation (AAPMR) (Fellow), 1984-present

1988-2005 Industrial Rehabilitation Special Interest Group, Vice Chair, 1996

Program Subcommittee Chairperson, 1992, Technical Consultant 1997-2001, President 2002-2004

1991-1994 Structure and Governance Committee

1993-1995 Subcommittee on Rural Physiatrists

* 1. Research Committee

1995-1996 Task Force on Research Priorities for The Institute of Medicine

1. Liaison to American Academy of Orthopedic Surgery Practice Guidelines

1988 Liaison Council: Vermont State Representative

2004-2005 Presidential Task Force on Research in Musculoskeletal Medicine

2002-2007 Chair, International Rehabilitation Special Interest Group

2002-2005 Chair, Occupational Rehabilitation Special Interest Group

2007 Liaison, AMA Pay for Performance study group

2009-2016 Pain and Neuromuscular Council Board Member

2012-2016 Pain and Neuromuscular Council vice chair for education

Physiatric Association of Spine, Sports and Occupational Rehabilitation 1993-2006 (Merged into AAPMR approximately 2006)

1993-1996 Co-founder. Charter Member, Board of Directors

1993-1996 Research Committee Chair

1. Awards Committee Chair

1999 Awards Committee

United States Swim Team Aquatic Medicine Society, 1984-1990

* 1. United States Swimming, Domestic Competition Physician List

American Congress of Rehabilitation Medicine, 1984-1993

Association of Academic Physiatrists, 1987-present

American Association of Neuromuscular and Electrodiagnostic Medicine (AANEM), formerly American Association of Electrodiagnostic Medicine (AAEM), formerly American Association of Electromyography and Electrodiagnosis (AAEE) (Member by Examination), 1987-present

1989 Vermont State Liaison to Professional Practice Committee

1989-1997 Equipment and Computer Committee (Chair 1994-1997)

1996-2000 Nomenclature Committee

1997-2000 Electronic Media Committee

2001 AAEM ERF grant reviewer

2001-2002 Lumbar Radiculopathy Task Force

2002-2004 Research Committee

2002-2004 Blinded Study Task Force

2003-2005 Report Generator Task Force

2005-present SIG/Symposium Committee Chair

2006-present CME Advisory Committee

2006-2009 Editorial board, Nerve and Muscle Junction (podcast)

2016-present Primary Care Task Force

American Telemedicine Association, 2012-present

Profound Paralysis Association, 1993-1995

**International**

*International Rehabilitation Forum*. A 501-c-3 not-for profit consortium of academic PMR departments and individuals around the world.

2005-present Founding President.

2009 Conference Director: First World Conference on Medical Rehabilitation in Rural and Developing Regions. Kayseri, Turkey.

2011 Conference Director: World Congress, San Juan Puerto Rico

2012 Conference co-director, World Congress, Dhaka, Bangladesh

*International Society for Physical and Rehabilitation Medicine* 1989-present

2002-~2010 Web site liaison/committee chair

2004-2008 Board of Governors, North American Vice President

2005-2007 Seoul 2007 Organizing Committee

2008-present Istanbul 2009 Organizing Committee

2008-present Conference Director, pre-Conferences on Rural and Developing World Rehabilitation (Kayseri Turkey 2009, San Juan Puerto Rico 2011, Beijing China 2013)

2010-present WHO Liaison Committee

2010-present Disaster Rehabilitation sub-committee

2010-2015 Disaster Acute Rehabilitation Team (DART) program director

2008-present Africa Liaison

2011-present Membership Committee

2014-15 Berlin 2015 scientific committee

*International Society for Study of the Lumbar Spine,* 1992-present

*Association du<<Locked-in>>Syndrome*, (France) American Corresponding Member, 1997-present

*Asia Oceana Society for Physical and Rehabilitation Medicine*

2006-2008 Distinguished International Advisor to the first Asian Oceania Congress of Physical and Rehabilitation Medicine（AOCPRM）May 16- 19 2008, Nanjing, China Scientific Committee, keynote speaker

*Mediterranean Society for Physical and Rehabilitation Medicine,* Scientific advisory committee for Cyprus 2010 meeting.

**Community**

1987-1989 Medical Center Hospital of Vermont Race for Independence (wheelchair ‑ running race) Co‑chairperson and Founder

1987-1989 Medical Center Hospital of Vermont Independence Options Fund (Support fund for rehabilitation patients) Co-chairperson and Founder

1990-1995 YMCA of Neenah-Menasha Board of Directors

1998-2014 Sexuality Class/Sunday School teacher, First Presbyterian Church of Ann Arbor

# MAJOR CONSULTING ACTIVITIES

1987-1989 Consultant, Vermont State Handicapped Children’s Service

1. University of Cincinnati External Review of Physical Medicine and Rehabilitation Chair
2. Utilimed/Blue Cross-Blue Shield of Michigan Practice Guidelines for Radiological Procedures in Low Back Pain

2001 Consultant regarding research strategies, Office of the Dean, Michigan State University College of Osteopathic Medicine

2001-present President and Founder, Rehabilitation Team Assessments, LLC (d/b/a Haig et al., Consulting). A company that helps build rehabilitation and musculoskeletal programs, policies, and teamwork.

2001~2010. ABC News Online medical network. Consultant.

2007-2008 Consultant, Liberian Government Group of 77 and Mercy Ships: Development of a national rehabilitation program.

2008 Consultant. Neuromusculoskeletal program development. Allegiance Health System, Jackson, Michigan.

2009 Consultant, Rehabilitation Program Development. Kume Hospital, Kume, Uganda

2008-2009 Educational Consultant: Best Doctors, Inc. Boston, MA

2010-2014 Consultant, the Center for Healthcare Research and Transformation; interventions in hospital emergency departments. Community education on back pain consumerism. Benefit analysis for organizations.

2011-present Consultant: University of Brunei, Jerudong Park Medical Center, and Brunei Ministry of Health, Building a national rehabilitation center

2013-2015 Consultant: YuhoCare Rehabilitation Hospital, Beijing, China

2014 Consultant: Yale University, Development of a new PM&R department.

2014 Consultant: Ethiopia Ministry of Health and St. Paul School of Medicine, Addis Ababa, Ethiopia.

2015 Consultant, Aurora Healthcare, Milwaukee, Wisconsin

**VISITING PROFESSORSHIPS, SEMINARS, AND DISTINGUISHED INVITED PRESENTATIONS**

**Visiting Professor:**

Chicago Joint Rehabilitation Residency Programs 1991

Chicago Joint Rehabilitation Residency Programs 1994

University of Cincinnati, Department of Physical Medicine and Rehabilitation Cincinnati, Ohio 1997

Emory University, Department of Physical Medicine and Rehabilitation, Atlanta Georgia 1999

University of Medicine and Dentistry of New Jersey, Department of Physical Medicine and Rehabilitation, 2000  
Department of Orthopedics and Rehabilitation, Mie University, Tsu City Japan, 2002

University of Vienna, and Orthopedic Hospital Speising, Vienna, Austria, January to June, 2003

Loyola University Chicago Department of Physical Medicine and Rehabilitation, August 2003

University of Arkansas, Department of Physical Medicine and Rehabilitation. March 2004

Eastern Virginia Medical Center, Department of Physical Medicine and Rehabilitation. 2004

Johns Hopkins University, Department of Physical Medicine and Rehabilitation, September 2004

Northwestern University/Rehabilitation Institute of Chicago, Prince Visiting Professor, January 2005

The Mayo Clinic, Department of Physical Medicine and Rehabilitation, March 2005

The University of Texas Southwestern, June 2007

Cornell University/Columbia University Departments of Rehabilitation Medicine, January 2008

The Medical College of Wisconsin Department of Physical Medicine and Rehabilitation, December 2009.

University of Hong Kong Department of Orthopedic Surgery, M.B. Lee Honorary Visiting Professor. April 2010.

University of Utah Department of Physical Medicine and Rehabilitation. James Swensen M.D. Honorary speaker. May 2011

Stanford University Department of Physical Medicine and Rehabilitation. Graduation speaker, April 2012

Keynote Speaker: Integrating Integrative Medicine. Arura Medical School (China) / University of Virginia Conference on Tibetan Medicine and Philosophy. Charlottesville, VA, 2012

Louisiana State University Department of Physical Medicine and Rehabilitation. Visiting Professor. March 2013

Wayne State University Department of Physical Medicine and Rehabilitation. June 2014.

Johns Hopkins University Department of Physical Medicine and Rehabilitation. April 2015.

University of California San Fransisco Spine Program. May 2015.

University of Miami Department of Physical Medicine and Rehabilitation May 2017 (pending)

**Lectures and Courses:**

*International Presentations*

1. “Multidisciplinary Rehabilitation of Chronic Back Pain.” Department of Orthopedics, Mie, University, Tsu, Japan, 2002
2. “Paraspinal EMG.” Department of Rehabilitation Medicine, Fijita Medical College, Mie University, Tsu, Japan, 2002
3. “Risk Factors for Low Back Pain Disability.” Postgraduate Medical Students, Mie University, Tsu, Japan, 2002
4. Keynote Speaker. Standardized Multidisciplinary Team Assessments. European Society for Physical and Rehabilitation Medicine, Vienna, Austria, 2004
5. Keynote Speaker. Paraspinal Electromyography. European Society for Physical and Rehabilitation Medicine, Vienna, Austria, 2004
6. Teams in Rehabilitation. Department of Physical Medicine and Rehabilitation, Kaiser Franz Joseph Hospital, Vienna, Austria, 2004
7. New Electrodiagnostic Techniques. Vienna Medical University Department of Physical Medicine and Rehabilitation, 2004
8. Multidisciplinary Teams in Rehabilitation. International Society for Physical and Rehabilitation Medicine, Sao Paolo, Brazil, 2005
9. Electrodiagnosis in Radiculopathy. International Society for Physical and Rehabilitation Medicine, Sao Paolo, Brazil, 2005
10. Scientific Poster guide/reviewer. International Society for Physical and Rehabilitation Medicine, Sao Paolo, Brazil, 2005
11. Keynote Speaker: EMG or MRI for Spinal Stenosis. Mediterranean Forum of Physical Medicine and Rehabilitation. Algarve, Portugal, 18-21 October, 2006
12. Electromyography and Spinal Stenosis. Invited Speaker, International Society for Physical and Rehabilitation Medicine. Seoul, Korea, 2007
13. Spinal Stenosis. Suzhou University Physical Medicine and Rehabilitation, Suzhou, China 2008.
14. The Diagnosis of Spinal Stenosis. ISPRM, Istanbul, Turkey, 2009.
15. Keynote speaker, 2do. Congreso Nacional, Sociedad Occidental Colegio Medico de Rehabilitacion de Jalisco (Mexican National conference),, Puerto Vallarta, Mexico, 2009. Lectures: Assessment and Treatment of Cervical Spine, Diagnosis and Treatment of Low Back Pain, Paraspinal muscle anatomy and physiology, International Industrial Medicine, Ergonomics (Fitting the job and the person relative to people with disabilities), Diagnosis of spinal stenosis, Rehabilitation of spinal stenosis, Multidisciplinary assessment of chronic low back pain.
16. Invited guest lecturer. MRI vs. EMG for spinal stenosis. Japanese Orthopedic Association. Yokohama, Japan, November 2, 2009
17. Keynote Speaker. Hong Kong Orthopedics Society, April 2010. “How can electrophysiological studies help with management of back pain and spinal stenosis?” Also, “Multidisciplinary assessment of chronic low back pain”, “Back Packs and Back Pain”, and “Is non operative treatment effective for patients with Prolapsed Intervertebral Disk?”
18. Keynote Speaker. World Federation of Physiotherapists, Africa Congress. Accra Ghana, July 20-23, 2010.
19. Electrodiagnosis in Radiculopathy. International Society for Physical and Rehabilitation Medicine, San Juan, Puerto Rico, 2011
20. Rehabilitation after Natural Disaster (Moderator) International Society for Physical and Rehabilitation Medicine, San Juan, Puerto Rico, 2011
21. Activity Monitors in Spinal Stenosis. (Invited guest lecturer) European Sports Medicine/European Society of PMR/Austrian Society of PRM joint conference. Salzburg, Austria, 2011
22. The International Rehabilitation Forum/Bangladesh Society for Physical and Rehabilitation Medicine World Congress, December 2012. Co-chair, multiple lectures and courses.
23. Development of a White Book on Physical and Rehabilitation Medicine for Asia. Coordinator. Multiple national Asian organization leaders, at IRF/BAPMR 2012, Dhakka, Bangladesh.
24. American Low Back Pain Innovations: BOPMR: Austrian national conference on Physical and Rehabilitation Medicine, Vienna, June 6-8, 2013.
25. Electromyography and Back Pain. (keynote speaker) Colombian Society of Physical and Rehabilitation Medicine. August 2014.
26. Paraspinal mapping. Congreso nacional de medicina fisica y rehabilitacion, Cali, Colombia, August 2014.
27. Lumbar spinal stenosis. Congreso nacional de medicina fisica y rehabilitacion, Cali, Colombia, August 2014.
28. Global Rehabilitation Medicine Congreso nacional de medicina fisica y rehabilitacion, Cali, Colombia, August 2014.
29. Keynote Speaker: Best Practice Models in Low Back Pain: The Right Intervention for the Right Patient at the Right Time. ISPRM June 19-23, 2015, Berlin, Germany
30. Educational Course – the PRM Physician’s Role in Community Based Rehabilitation. ISPRM June 19-23, 2015, Berlin, Germany
31. Course Chair and speaker: Electrodiagnosis of Radiculopathy: New Techniques, New Uses (Part I and Part II) ISPRM June 19-23, 2015, Berlin
32. Paraspinal Mapping EMG: Technique and Validation. ISPRM 2015 Berlin.
33. Practical Considerations and Strange Diseases. ISPRM 2015 Berlin.
34. Haig AJ: the PRM Physician’s Role in Community Based Rehabilitation and Engaging Students in Global Rehabilitation. ISPRM 2015 Berlin
35. Course Moderator: ISSLS June 9-12 2015, San Fransisco.
36. Keynote lecture: pain and function. ISICO, April 30, 2016, Milan Italy.
37. Physical and Rehabilitation Medicine Graduate Medical Education: Global perspective. ISPRM May 2017, Buenos Aires (pending)

*North American Presentations*

1. “Rehabilitation of Patients with Long Standing Locked-In Syndrome.” American Congress of Rehabilitation Medicine/American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, Maryland, 1986
2. “Locked-In Syndrome: Planning for the Future.” Course Director. American Congress of Rehabilitation Medicine/American Academy of Physical Medicine and Rehabilitation, Seattle, Washington, 1988
3. “Emergencies on the Rehabilitation Unit.” Course Director. American Congress of Rehabilitation Medicine/American Academy of Physical Medicine and Rehabilitation Annual Meeting, San Antonio, Texas, 1989
4. “Emergencies on the Rehabilitation Unit.” Presenter: Administrative Issues. American Congress of Rehabilitation Medicine/American Academy of Physical Medicine and Rehabilitation Annual Meeting, Phoenix, Arizona, 1990
5. “Locked-In Syndrome: An Update.” Course Director. American Congress of Rehabilitation Medicine/American Academy of Physical Medicine and Rehabilitation Annual Meeting, Phoenix, Arizona, 1990
6. “Quality Assurance in Work Hardening Programs.” Moderator. American Congress of Rehabilitation Medicine/American Academy of Physical Medicine and Rehabilitation Annual Meeting, Phoenix, Arizona, 1990
7. “Proximal & Uncommon Nerve Assessment.” American Association of Electrodiagnostic Medicine Annual Meeting, Charleston, South Carolina, 1992
8. “Proximal Nerve Conduction Studies.” American Association of Electrodiagnostic Medicine Annual Meeting, Charleston, South Carolina, 1992
9. “Oops! Iatrogenic Focal Neuropathy.” American Congress of Rehabilitation Medicine/American Academy of Physical Medicine and Rehabilitation Annual Meeting, San Francisco, California, 1992
10. “Anatomy, Physiology & Pathology of the Back: Work‑place Back Injuries.” Occupational Safety & Health Administration (OSHA) Training Institute, Des Plains, Illinois, 1987‑1992 (a full day of instruction 2-3 times per year)
11. “Rehabilitation Outcome Analysis: State of the Art Applications in Orthopedic and Occupational Rehabilitation.” Chicago, Illinois, 1993
12. “The Secrets of Successful Rural Rehabilitation: No Cityfolk Allowed!” American Academy of Physical Medicine and Rehabilitation Annual Meeting, focus session, Anaheim, California, 1994
13. “New Job for an Old Test: Needle Electromyography of the Paraspinal Muscles. Richard and Hinda Rosenthal Foundation Lectureship. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Anaheim, California, 1994
14. So, Why Do You Want to Measure Stuff, Anyway? ...And How Accurate Do You Need to Be?” Industrial Rehabilitation and Evaluation of Fitness to Work. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Anaheim, California, 1994
15. “Chronicity in the Injured Worker.” University of Wisconsin, Madison, Wisconsin, 1994
16. “Patient Education in the A.H.C.P.R. Back Pain Guidelines.” Association of Academic Physiatrists, Indianapolis, Indiana, 1995
17. “Chronic Back Pain-New Treatment Modalities.” Kimberly-Clark Corporation—
18. Medical Conference, Neenah, Wisconsin, 1995
19. “Industrial Rehabilitation SIG: Update on practice parameters in industrial rehabilitation medicine.” American Academy of Physical Medicine and Rehabilitation Annual Assembly, Anaheim, California, 1995
20. “Industrial Rehabilitation SIG: Outcome studies and program evaluation in industrial rehabilitation.” American Academy of Physical Medicine and Rehabilitation Annual Assembly, Anaheim, California, 1995
21. “Muscle and Tendon: Varieties of injury.” American Academy of Physical Medicine and Rehabilitation Annual Assembly, Anaheim, California, 1995
22. “Research Showcase: Contemporary physiatric neurophysiology research.” American Academy of Physical Medicine and Rehabilitation Annual Assembly, Anaheim, California, 1995
23. Scientific Presentations: Moderator, New Orleans, Louisiana 1996
24. “Electromyography and Low Back Pain.” Wayne University School of Medicine, Detroit, Michigan, 1996
25. “Evaluation and Triage of Back Pain.” University of Kansas Medical Center, Kansas City, Kansas, 1996
26. “Neck and Back Pain.” University of Kansas Medical Center, Kansas City, Kansas, 1996
27. “Workers’ Compensation and Disability Systems.” Disability Evaluation Certificate Program, American Academy of Physical Medicine and Rehabilitation, 1996
28. “Instruction in Goniometry.” Disability Evaluation Certificate Program, American Academy of Physical Medicine and Rehabilitation, 1996
29. “Evaluation of the Spine.” Disability Evaluation Certificate Program, American Academy of Physical Medicine and Rehabilitation, 1996
30. “Functional Capacity Evaluations.” Disability Evaluation Certificate Program, American Academy of Physical Medicine and Rehabilitation, 1996
31. “Chronic Back Pain: Finding and Treating Associated Disability.” Rehabilitation Insurance Nurses Council. Detroit, 1996
32. “Practice Guidelines and the Legal Interface: Are Rules Also Laws?” Medical-Legal Issues in the Practice of Electrodiagnostic Medicine. American Association of Electrodiagnostic Medicine, Minneapolis, 1996
33. “Electrodiagnostics—The Definitive Functional Test.” Physiatric Association for Sports, Spine, and Occupational Rehabilitation Annual Meeting, Vancouver, Canada 1996
34. “Needle Electrode Examination.” Electromyography, an Intensive Review. Rehabilitation Institute of Chicago, Chicago, Illinois, 1996
35. “Radiculopathy/Polyradiculopathy.” Electromyography, an Intensive Review. Rehabilitation Institute of Chicago, Chicago, Illinois, 1996
36. “Plexopathy.” Electromyography, an Intensive Review. Rehabilitation Institute of Chicago, Chicago, Illinois, 1996
37. Workshop “Basic Nerve Conduction Studies.” Electromyography, an Intensive Review. Rehabilitation Institute of Chicago, Chicago, Illinois, 1996
38. “Triage of Low Back Pain - The Transition Zone Between Acute and Chronic Injury.” Southern Society of Physical Medicine and Rehabilitation, Orange Beach, Alabama, 1997
39. “Rehabilitation Management of Low Back Pain.” The Carolinas HealthCare System, Charlotte, North Carolina, 1997
40. “Outcome and Cost-Effectiveness Research: Methods and Examples in Musculoskeletal Medicine.” American Academy of Physical Medicine & Rehabilitation Annual Assembly, Atlanta, Georgia, 1997
41. “Should There Be Practice Parameters for CHRONIC Low Back Pain?” American Academy of Physical Medicine and Rehabilitation Annual Assembly, Atlanta, Georgia, 1997
42. “Outcome and Cost-Effectiveness Research: Methods and examples in musculoskeletal medicine.” American Academy of Physical Medicine and Rehabilitation Annual Assembly, Atlanta, Georgia, 1997
43. “Impairment Rating and Disability Evaluation Under the Gun.” Association of Academic Physiatrists Annual Meeting, San Antonio, Texas, 1998
44. Session Leader, American Academy of Physical Medicine and Rehabilitation Annual Assembly, Seattle, Washington, 1998
45. “Cervical and Lumbosacral Radiculopathy Screens: Which muscles should be studied? American Academy of Physical Medicine and Rehabilitation Annual Assembly, Seattle, Washington, 1998
46. “Physical Assessment Tools.” Association of Academic Physiatrists Annual Meeting, San Antonio, Texas 1998
47. Breakfast with the Experts: American Association of Electrodiagnostic Medicine. San Diego, California, 1998. Surface EMG, 1989, Uncommon Nerve Conduction Studies, 1990, 1998
48. “Paraspinal Mapping: Decreasing Subjectivity in Electromyography of the Back.” American Academy of Physical Medicine and Rehabilitation Annual Assembly, Seattle, Washington, 1998
49. Getting Started in Research. “Meet the Expert”. American Association of Electrodiagnostic Medicine Annual Meeting, Vancouver, British Columbia, 1999
50. “Uncommon Nerve Conduction Studies.” American Association of Electrodiagnostic Medicine Annual Meeting, Vancouver, British Columbia, 1999
51. “Ergonomic Barriers to Rehabilitation and Employment.” (National consensus conference) Planning Committee, symposium participant. University of Michigan Rehabilitation Engineering Research Center, Ann Arbor, Michigan, 1999
52. “A University of Michigan Model for Integration of Worker and Job Information.” Ergonomic barriers to Employment. (national consensus conference) University of Michigan Rehabilitation Engineering Research Center, Ann Arbor, Michigan, 1999
53. “Paraspinal Electromyography.” American Academy of Physical Medicine and Rehabilitation Annual Meeting, Washington D.C. 1999
54. “Paraspinal Electromyography.” American Association of Electrodiagnostic Medicine, 2000
55. “Anatomic Validation of Needle Placement.” Anatomic Perspectives: tandem courses. Medical College of Wisconsin, Milwaukee, Wisconsin, 2000
56. “Understanding the Paraspinal Muscles.” Anatomic Perspectives: tandem courses. Medical College of Wisconsin, Milwaukee, Wisconsin, 2000
57. Breakfast with the Experts: “Basics of Research.” American Association of Electrodiagnostic Medicine. Vancouver, Canada, 2000
58. Dinner Seminar: Challenging Electrodiagnostic Medicine Cases. Co-chair, American Association of Electrodiagnostic Medicine. Vancouver, Canada, 2000
59. “Paraspinal Mapping.” American Association of Electrodiagnostic Medicine 23rd Annual Workshops, Philadelphia, Pennsylvania, 2000
60. “The Paraspinal Muscles in Health and Disease.” Patenge Distinguished Lecture Series. Michigan State University, Lansing, Michigan, 2000
61. “Multidisciplinary Rehabilitation.” UMDNJ-New Jersey Medical School, Newark, New Jersey, 2000
62. “Paraspinal Muscles.” UMDNJ-New Jersey Medical School, Newark, New Jersey, 2000
63. Dinner Seminar: Challenging Electrodiagnostic Medicine Cases. Co-chair, American Association of Electrodiagnostic Medicine. San Francisco, 2001
64. “Management of Acute Pain: The Physiatric Approach.” Seccion de Fisiatria XII Annual Meeting, San Juan, Puerto Rico, 2000
65. “Use of Conceptual Models for Applying Ergonomic Technologies to Overcome Barriers to Work.” RESNA, Orlando, Florida, 2000
66. “Membrane Physiology: Related to Muscle & Nerve.” Annual Review Course, UMDNJ-New Jersey Medical School, Parsippany, New Jersey, 2001
67. “Motor & Sensory Nerve Conduction.” UMDNJ-New Jersey Medical School, Parsippany, New Jersey, 2001
68. Somatosensory Evoked Potentials.” UMDNJ-New Jersey Medical School, Parsippany, New Jersey, 2001
69. “H-Reflex, F-Wave, Blink Reflex.” UMDNJ-New Jersey Medical School, Parsippany, New Jersey, 200.
70. “Neuromuscular Junction.” UMDNJ-New Jersey Medical School, Parsippany, New Jersey, 2001
71. “Essentials of Instrumentation.” UMDNJ-New Jersey Medical School, Parsippany, New Jersey, 2001
72. “EMG Potentials & Basic Pathophysiology.” UMDNJ-New Jersey Medical School, Parsippany, New Jersey, 2001
73. “Management of Back Pain and Radiculopathy.” American College of Physicians/American Society of Internal Medicine, Atlanta, Georgia, 2001
74. “Chronic Neck Pain: Pathophysiology, Assessment, and Treatment.” 19th University of Washington Review Course in Physical Medicine and Rehabilitation, University of Washington, Seattle, Washington, 2001
75. “Injuries of the Neck: Assessment and Management.” 19th University of Washington Review Course in Physical Medicine and Rehabilitation, University of Washington, Seattle, Washington, 2001
76. “Electromyography in Spinal Stenosis.” American Academy of Physical Medicine and Rehabilitation Annual Meeting. Cancelled due to 9-11-01 disaster.
77. “Conventions and Controversies in Radiculopathy and Spinal Stenosis.” Course E, American Association of Electrodiagnostic Medicine Annual Meeting, Albuquerque, New Mexico, 2001
78. “Challenging Electrodiagnostic Medicine Cases.” Dinner Seminar, American Association of Electrodiagnostic Medicine Annual Meeting, Albuquerque, New Mexico, 2001
79. “The Management of Low Back Pain.” Department of Medicine, University of Rochester, Rochester NY, 2001
80. “Multidisciplinary Assessment of Low Back Pain.” Dartmouth University, West Lebanon, New Hampshire. 2002
81. “Forging Ahead, Preventing Work-Related Musculoskeletal Disorders.” Department of Defense Ergonomics Working Group Conference. Aberdeen Proving Ground, Maryland, 2002 (Cancelled due to national security issues)
82. “Functional Assessment.” Department of Defense symposium on ergonomics. Washington, DC, April 2002
83. “Multidisciplinary Assessment of Low Back Pain.” PM&R, Case Western Reserve University, Cleveland, Ohio, 2002
84. “Multidisciplinary Assessment of Low Back Pain.” PM&R, Eastern Virginia Medical School, 2002
85. “Challenging Electrodiagnostic Medicine Cases.” Dinner Seminar Co-chair, American Association of Electrodiagnostic Medicine Annual Meeting, Toronto, Ontario, 2002
86. “Paraspinal Mapping.” Expert Seminar (twice). Medicine Cases. American Association of Electrodiagnostic Medicine Annual Meeting, Toronto, Ontario, 2002
87. “Surgical Iatrogenic Neuropathies. Medicine Cases.” American Association of Electrodiagnostic Medicine Annual Meeting, Toronto, Ontario, 2002
88. “Ergonomic Solutions to Employment.” American Academy of Physical Medicine and Rehabilitation Annual Meeting, Orlando, Florida, 2002
89. “American Management of Low Back Pain.” PM&R, University of Vienna, Vienna Austria, 2003
90. “Paraspinal Electromyography.” PM&R, University of Vienna, Vienna Austria, 2003.
91. “Long Term Management of Locked-In Syndrome.” Association du Locked-in Syndrome. Paris France, March 2003
92. “Leadership in Health Care.” (Faculty, 4-day course for health care system managers lead by Noel Tichy, Ph.D.) University of Michigan School of Business. March 2003
93. “Standardized multidisciplinary assessments and international service delivery.” (With Daniel D. Haig) American Nepal Medical Foundation, Ann Arbor, Michigan, June 28, 2003
94. “Multidisciplinary rehabilitation assessment.” Austrian Society of Physical Medicine and Rehabilitation, Vienna, Austria, April 2003
95. “Paraspinal Electromyography.” Austrian Society of Physical Medicine and Rehabilitation, Vienna, Austria, April 2003
96. “Challenging Electrodiagnostic Medicine Cases.” Dinner Seminar, Co-chair, American Association of Electrodiagnostic Medicine Annual Meeting, San Fransisco, 2003
97. “Paraspinal Mapping.” Expert Seminar (two presentations). Medicine Cases. American Association of Electrodiagnostic Medicine Annual Meeting, San Fransisco, 2003
98. “Telemedicine solutions to distant and international rehabilitation.” (With Rashid Bashshur) AAPM&R, Chicago 2003
99. “Multidisciplinary Team Assessment in Chronic Low Back Pain.” Michigan State University, Department of Physical Medicine and Rehabilitation, East Lansing, 2003
100. “Multidisciplinary Team Assessment in Chronic Low Back Pain.” Wayne State University Department of Physical Medicine and Rehabilitation, Detroit 2003
101. “News from the Michigan Spinal Stenosis Study.” (director of multifaculty course. Haig lectures: 1. The Michigan Stenosis Methodology. 2. Electrodiagnosis in Spinal Stenosis) AAPM&R 2004
102. “Needle localization in Electromyography.” (multifaculty half day course. Haig lectures: 1. Techniques to validate needle placement. 2. Needle localization in the paraspinal muscles.) AA 2004
103. “Spinal disorders in the aging worker.” AAPM&R 2004
104. “Paraspinal Mapping” (two hands-on seminars) AAEM 2004
105. “Non-surgical management of spinal stenosis.” AAEM 2004
106. “Management of Low Back Pain.” Visiting Professor, Johns Hopkins University, Department of Physical Medicine and Rehabilitation, 2004
107. “Validating Electrodiagnosis in Low Back Pain.” Visiting Professor, Rehabilitation Institute of Chicago. 2005
108. “Paraspinal Mapping: Validation of electrodiagnostic testing.” The Mayo Clinic. 2005
109. “A lazy person’s approach to research productivity.” The Mayo Clinic, 2005
110. “Paraspinal Mapping.” 2 hands-on courses. AANEM 2005
111. “Spinal Stenosis. Meet the Expert.” AANEM 2005
112. “Cumulative Upper Extremity Musculoskeletal Program, Changing Health Care Reimbursement in PM&R.” Program Opportunities for the present and the future. AAPM&R 2005
113. “Evaluation of Persons with Suspected Radiculopathies.” AAPM&R 2005
114. “Workers compensation and industrial rehabilitation. In Preparing yourself for Physiatric Practice.” AAPM&R Pre-course, 2005
115. “Validating Electrodiagnostic Testing.” Stanford University/Santa Clara Valley Medical Center, 2006
116. “Evidence Based Medicine: Scientific advances.” (invited, pending) AANEM 2006
117. “Electrodiagnostic Update: Radiculopathy, spinal stenosis, and provision of services in the United States.” AAPM&R 2006
118. “Paraspinal Mapping.” 2 hands-on courses. AANEM 2006
119. “The Science of Spine Team Assessments.” Honorary Alumnus lecture, 55th Anniversary, The Medical College of Wisconsin Department of Physical Medicine and Rehabilitation, September 16-17, 2006.
120. “5 heads are better than 1: Efficient Rehabilitation Teams for Chronic Disability. University of Texas Southwestern, June 22, 2007.
121. “From Cadavers to Clinic: The Story of Paraspinal Mapping Research. University of Texas Southwestern, June 22, 2007.
122. Spinal Stenosis. Emerging Concepts in Spinal Disorders. Telluride, Colorado, 2007.
123. Lumbar Spine Diagnostics. Physical Exam and Electrodiagnosis. Moderator and lecture: Electrodiagnosis in Spinal Stenosis. AAPMR 2007
124. Paraspinal Mapping. Expert symposium. AAPMR 2007
125. Trochanteric Bursitis. AANEM 2007
126. Joe Paterno’s Back. (geriatric back pain) Penn State University. 2008.
127. Paraspinal Mapping. 2 hands on courses. AANEM 2007
128. Paraspinal Mapping. 2 hands on courses. AANEM 2008
129. Paraspinal Mapping. 2 hands on courses. AANEM 2009
130. Paraspinal Mapping. 2 hands on courses. AANEM 2010
131. Paraspinal Mapping in Spinal Stenosis. AAPMR 2009
132. Keynote Address: Spinal Stenosis: MRI and EMG correlate with symptoms. Oregon Health Science University Sun River Annual Musculoskeletal Update for Primary Care. 2011
133. Spinal Stenosis: Anatomical variant, syndrome, or disease? Puget Sound Sports and Spine Conference, 2011
134. Rehabilitation in developing countries. University of Utah, 2011
135. Paraspinal Mapping. hands on course. AANEM 2011
136. Lumbar radiculopathy. 2 hands on courses. AANEM 2011
137. Paraspinal muscles in diabetes. AANEM 2011
138. Spinal Stenosis. Puget Sound Sports and Spine Group 2011
139. Lumbar Stenosis: Not what you think. Stanford University, April 2012
140. Innovations in spine care for the new healthcare system. Puget Sound Sports and Spine group. April 2012.
141. Global Rehabilitation Strategies for Department Administrators. AAP, New Orleans, March 2013.
142. The LSU Back Pain Quiz (and) Diagnosis of Lumbar Stenosis. Louisiana State University Department of Physical Medicine and Rehabilitation, March 2013
143. Dyslexia and Medicine. National webinar. The Dyslexia Advantage, August 27, 2013.
144. Electromyography and the diagnosis of lumbar spine pain. AANEM, October 18, 2013
145. Lumbar radiculopathy and plexopathy (2 sessions) AANEM, October 18, 2013
146. Paraspinal Mapping (2 sessions) AANEM, October 18, 2013
147. Ask the Experts: Cervical Radiculopathy. AANEM, October 19, 2013
148. Paraspinal Mapping (2 sessions) AANEM, October 2014
149. Lumbar Radiculopathy (2 sessions) AANEM, October 2014
150. How Can Telehealth Help You Achieve Reduced Costs, Improved Outcomes and Better Patient Experience? Plante Moran conference, ‘The Retail Revolution’, June 4-5 2015, Chicago, Il
151. Spine Care Policy: With Change Comes Opportunity. AAPMR October 3-6, 2013, National Harbor, MD.
152. Evaluation of Weakness: EMG Lab Considerations. AAPMR November 13-16, 2014, San Diego, CA
153. Ritchie Lecturer. Innovations in spine care delivery. University of California San Fransisco Spine Program. 2015.
154. Innovations in e-Health. Plante Moran Summit on patient-focussed health. Chicago 2015.
155. Disruptive innovations in spine care. AAPMR 2015, Boston
156. Neurological mimics of spinal stenosis and non-spinal causes of axial back pain. AAPMR 2015, Boston
157. There’s an App for that: Future directions, where the technology is going. AAPMR 2015, Boston
158. The Needle Exam. Electromyography for visual learners. AAPMR 2015, Boston
159. Affordable telerehabilitation and e-health. ACRM 2015, Dallas.
160. Innovations in spine care; Control the Midfield. 11th National Value Based Payment and Pay for Performance Summit, 2016, San Francisco.
161. Upstream: Condition-based vs. Procedural Bundles. 6th National Bundled Payment Summit, (pending) June 7-9, 2016, Washington DC
162. Control the Midfield: A new role for rehabilitation programs. American Medical Rehabilitation Providers Association, October 22-24, 2016, New Orleans

*Local/regional presentations*

1. “Aquatics for the Disabled.” Northwestern University School of Physical Therapy, Chicago, Illinois, 1986
2. “Vocational Guidance in Neuromuscular Diseases: The Diagnosis and Management of Neuromuscular Diseases.” University of Vermont, Department of Neurology, Burlington, Vermont, 1987
3. “Back Pain. Family Practice Review Course.” University of Vermont, Department of Family Practice, Burlington, Vermont, 1987
4. “Chronic Pain Management.” Vermont Physician Assistant Academy, Montpelier, Vermont, 1987
5. “Low Back Pain – An Occupational Focus.” Vermont Physician Assistant Academy, Montpelier, Vermont, 1987
6. “Rehabilitation of Farm Injuries.” Regional Trauma Education Conference, Appleton, Wisconsin, 1990
7. “Occupational Low Back Pain: Acute Management.” First Annual Youssef Gabriel Memorial Lecture. Wausau Hospital, Wausau, Wisconsin, 1992
8. “Spine Care in the 90’s.” Wisconsin Back Society, Madison, Wisconsin, 1994
9. “Sexuality After Head Injury.” Department of Health and Social Services, Madison, Wisconsin, 1995
10. “Update on Chronic Back Pain.” Lakeland Medical Center, Benton Harbor, Michigan, 1996
11. “War Stories: Successes and Failures in the Treatment of Chronic Pain.” Course Chair. Medical Care Coordinators, Inc., Mount Clemens, Michigan, 1997
12. “Transition Between Acute and Chronic Back Pain.” St. Joseph Mercy Hospital, Pontiac, Michigan, 1997
13. “Injury Prevention.” Michigan Safety Conference. Lansing, Michigan, 1998, 1999, 2000
14. “Diagnosis and Treatment of Low Back Pain.” Owosso Hospital, Owosso, Michigan, 1999
15. “Worker Rehabilitation.” Huron Valley Chapter of MOTA, Ann Arbor, Michigan, 1999
16. “Multidisciplinary Team Assessments.” Trends and Innovations in Complex Disabilities—A Team Approach. Michigan Rehabilitation Counseling Association Spring Seminar, Lansing, Michigan, 2000
17. “The Spine Team Assessment.” Trends and Innovations in Complex Disabilities—A Team Approach. Michigan Rehabilitation Counseling Association Spring Seminar, Lansing, Michigan, 2000
18. “Trends and Innovations in Complex Disabilities—A Team Approach.” Director, Michigan Rehabilitation Counseling Association Spring Seminar, Lansing, Michigan, 2000
19. “Back Pain.” Michigan Safety Conference. Lansing, Michigan, 2001
20. “Careers in Rehabilitation Medicine.” Grand Valley State University, 2001
21. “Low Back Pain.” St. Johns Macomb Hospital Physical Medicine Updates, 2005
22. “Rehabilitation Team Assessments” West Michigan Chapter, Case Management Society of North America, 2007.
23. Medical specialization through the years. Invited panelist. 50th anniversary, University of Michigan Medical School Class of 1958. 2008.
24. The Michigan Back Pain Quiz. Port Huron Medical Society. 2008.
25. Organizer and multiple talks: Back Pain Centers of Excellence. Full day course for Michigan health providers.
26. Telenursing. Michigan Nursing Conference. September 28, 2013, Ypsilanti, Michigan
27. Sustainability in Global Rehabilitation. James Ray Education Day, the University of Michigan, May 2015.

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*Peer-reviewed journals and publications*

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2. Haig AJ, Linton P, McIntosh M, Moneta L, Mead P: Aggressive early medical management by a specialist in physical medicine and rehabilitation: effect on lost time due to injuries in hospital employees. J Occup Med 32(3):241-244, 1990.
3. Haig AJ, Ruess J: Recovery from vegetative state of six months duration associated with Sinemet (levodopa/carbidopa). Arch Phys Med Rehabil 71(13):1081-1083, 1990.
4. Haig AJ, Moffroid M, Henry S, Pope MH: AAEM Young Investigator Award: A technique for needle localization in the paraspinal muscle with cadaveric confirmation. Muscle Nerve 14(6):521-526, 1991.
5. Haig AJ, Grobler L, Pope MH, Haugh LD, MacDonald L, Holleran K: The relative effectiveness of lumbosacral corset and trunk inclination audio biofeedback on trunk flexion. European J Phys Med Rehabil 2:29-37, 1991.
6. Haig AJ: The complex interactions of myotonic dystrophy and low-back pain. Spine 16(5):580-581, 1991.
7. Katz RT, Haig AJ, Clark BB, Dipaola RJ: Long-term survival, prognosis, and life-care planning for 29 patients with chronic locked-in syndrome. Arch Phys Med Rehabil 73(5):403-408, 1992.
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10. Moffroid MT, Haig AJ, Haugh LD, Henry SM, Pope MH: Endurance training of trunk extensor muscles. Phys Therapy 73(1):10-17, 1993.
11. Haig AJ: The business of dissociating pain and disabilities. Phys Med Rehabil Clinics North America 4:1-9, 1993.
12. Haig AJ, Parks TJ: Paraspinal muscles: Anatomy and electrodiagnostic testing in the cervical and lumbar regions. Phys Med Rehabil Clinics North America 5(3):447-463, 1994.
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14. Haig AJ, Nagy A, LeBreck DB, Stein J: Outpatient planning for persons with physical disabilities: A randomized prospective trial of physiatrist alone versus a multi-disciplinary team. Arch Phys Med Rehabil 76(4):341-348, 1995.
15. Haig AJ, LeBreck DB, Powley SG: Paraspinal mapping: Quantified needle electromyography of the paraspinal muscles in persons without low back pain. Spine 20(6):715-721, 1995.
16. Haig AJ, Ho K-C, Ludwig G: Clinical, physiologic, and pathologic evidence for vagus dysfunction in a case of traumatic brain injury. J Trauma 40(3):441-444, 1996.
17. Carlson HL, Haig AJ, Stewart DC: Snapping scapula syndrome: three case reports and an analysis of the literature. Arch Phys Med Rehabil 78(5):506-511, 1997.
18. Haig AJ: Clinical experience with paraspinal mapping I: neurophysiology of the paraspinal muscles in various spinal disorders. Arch Phys Med Rehabil 78(11):1177-84, 1997.
19. Haig AJ: Clinical experience with Paraspinal Mapping. II: a simplified technique that eliminates three-fourths of needle insertions. Arch Phys Med Rehabil 78(11):1185-90, 1997.
20. Theisen ME, Geisser ME, Haig AJ, Ruan C: Functional restoration: variables predicting formal program versus individualized treatment. American Pain Society Abstracts (in) J Pain18:145, 1998.
21. Haig AJ. Locked-in syndrome. J General Internal Med 13(8):575-577, 1998.
22. Kirkwood ID, Quint DI, Haig AJ, Wahl RL: Painful Schmorl’s node: Another cause of vertebral photopenia on Indium-111-labeled leukocyte scintigraphy. Clin Nuclear Med 24(3):206-208, 1999.
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25. Haig AJ, Levine JW, Ruan CM, Yamakawa K. Describing paraspinal EMG findings: inadequacy of the single 0-4+ score. Am J Phys Med Rehab 79:133-137, 2000.
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#### Peer-reviewed Articles Accepted for Publication

### Articles in Review

1. Kohns D, Haig AJ, et al. Predictors of imaging and narcotic prescription for back pain in emergency departments. Submitted 2016

###### Selected Non-Peer Review Publications

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2. Lumbar orthoses: Good therapy or Linus' blanket. The Back Letter, Vol 2, #11, 1998.
3. Equipment and Computers Committee: A Review of Electromyography Report Generators: Positive Waves. AAEM 1996.
4. “Watch your backs!” Safety and Health, 1999.
5. “Listening skills: Paving the two-way street of physician-patient communications.” Alumni News, Medical College of Wisconsin, Spring 2000.
6. “Managing chronic pain: Multidisciplinary assessment of patients offers a variety of treatment options.” Continuing Care, January/February, 2001.
7. Haig AJ: RERC and UM Spine Program carves new paths. ARM of MRA-Michigan Rehabilitation Association’s Newsletter, 26(1), 2001.
8. Author, first draft: The White Book on Physical and Rehabilitation Medicine in Asia. An ongoing project of multiple national societies in Asia. 2012
9. Haig AJ. Curve-Counter Curve. EMG for Spinal Stenosis. Spine Line. North American Spine Society. November-December 2013.
10. Haig AJ. Innovations in spine care in Michigan. 10th Annual UCSF Spine Symposium. Audio-Digest Orthopaedics. Volume 38, Issue 18. September 21, 2015. ISSN 0271-132X. <http://www.audio-digest.org/adfwebcasts/mp3/OR3818/or3818_2.mp3>

*Literary Publications*

1. Haig AJ: ‘This Weekend.’ Winner, The American Club European Writing Contest, 1992.
2. Haig AJ: ‘I really got to know my patient in the morgue.’ Medical Economics 75(8)116-124, 1998.
3. Haig AJ. Locked-in syndrome. Finalist, Creative Medical Writing Contest, Journal of General Internal Medicine, 13(8)575-577, 1998.
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**Book Chapters**

1. Haig AJ: Diagnoses and treatment options in occupational low back pain. Occup Med State of the Art Rev 7:641-654, 1992.
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7. Tate DG, Haig AJ, Krause JS: Vocational aspects of spinal cord injury. In Kirshblum D, Campagnolo D, Delisa J (Eds) Spinal Cord Injury Medicine. Baltimore, MD: Lippincott, Williams and Wilkins, Chapter 21:312-321, 2001.
8. Haig AJ: Pain. In Brammer C, Spires MC (eds.) Manual of Physical Medicine and Rehabilitation. Philadelphia, PA: Hanley and Belfus, Inc., 2002.
9. Haig AJ: Telerehabilitation. In Richter EF III Editor, Medical Aspects of Disability 2nd edition . Springer Publishing Company, New York. 2005.
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12. Haig AJ: Telerehabilitation. In Richter EF III Editor, Medical Aspects of Disability 4th edition . Springer Publishing Company, New York. 2011.
13. Fernandes EH, Haig AJ, Schwantz MK. Medical Rehabilitation in Low Resource Countries. In Stam HJ, Buyruk HM, Melvin JL, Stucki G. Acute Medical Rehabilitation ISBN 978-605-87045-0-3, 2013.

**Books**

Haig AJ and Colwell MO, eds. Low Back Pain. American College of Physician Press. Philadelphia, 2005.

**Other Media**

Web / software design:

BackQuack. www.backquack.net . A video game for consumers and health care providers. Innovative consumer and physician education through a game where being a bad doctor is good. Haig et al, consulting LLC, with the University of Michigan 3-D Computing Center and the Center for Healthcare Research and Transformation.

The Language Independent Functional Evaluation (L.I.F.E.), a computer animated version of the English language Barthel Index, validated and used in epidemiological and clinical environments on 4 continents, in populations of different languages, literacy and cognitive function.

Ford/UM Global Healthcare Education Portal [www.med.umich.edu/ford](http://www.med.umich.edu/ford). Educating Ford Motor Company physicians world wide regarding occupational health issues.

International Society for Physical and Rehabilitation Medicine [www.isprm.org](http://www.isprm.org). Website for the International Society for Physical and Rehabilitation Medicine. (now redesigned and managed by others)

Acute Low Back Pain (2010 Update). Co-author. Audience: primary care clinicians and other health care providers who treat adults with this condition. (Available through the UM CME web site: cme.med.umich.edu)

Columns and serial publications

Founding Editor, The Lecture Notes. Student newspaper, The Medical College of Wisconsin, 1980-1983.

Editor, The MCW Dissector. Freshman Guide, Medical College of Wisconsin, 1982.

“Dear Dr. Andy” Quarterly column, The Stroke Connection, American Heart Association Wisconsin State Stroke Committee 1992-1996.

Co-editor/interviewer, “Nerve and Muscle Junction” monthly podcast from American Association of Neuromuscular and Electrodiagnostic Medicine. 2006-approximately 2009.

Selected national/regional press:

Media Campaign Spokesperson, American Academy of Physical Medicine and Rehabilitation. Helped develop a patient survey and subsequent press releases related to PM&R and back pain. Interviews with over a dozen media representatives.

More Children Suffering from Back Pain. CNN News, February 20, 1999.

Back packs and back pain. Press release and interviews with over 20 reporters internationally. 2003.

Back pain and Back Packs. National Public Radio, 2004.

Electrodiagnosis-Better than MRI for Spinal Stenosis. ABC news, numerous other media outlets. 2005.

Schneider, Phyllis. Oh, my aching back! Readers’ Digest, 6-29-05.

Theime, Travis and Hurlock, Heather. America’s Best Body Shops. Best Life 2005.

Langreth, Robert. Operation! Forbes Magazine, 10-27-03.

New Hope for Back Pain. Massage Magazine 2005.

Low Back Pain at the University of Michigan. Michigan Talk Radio with Bob White. Two syndicated interviews.

Natural Health

Kiplinger

Science Daily

CBC news

Bella Online

Oh, My Aching Back. By Phyllis Schneider Readers Digest, July 2008

Consultant ABC news, 2005-2010

Dyslexia and Medicine. National webinar, Dyslexia Advantage, 2014

Alumni form bond, share passion for Global Rehabilitation. Medical College of Wisconsin Alumni News Summer 2014.

“We’re the group of doctors that stay and try to save lives:” Glendale natives help Nepal quake victims. Fox 6 News Milwaukee, May 2, 2015. <http://fox6now.com/2015/05/02/surgeons-do-great-things-nepal-earthquake-victims-receive-special-aid-from-glendale-native-doctors/>

‘The virtual doctor will see you now.” NPR Marketplace Tech, Adam Allington, June 11, 2015. <http://www.marketplace.org/topics/economy/virtual-doctor-will-see-you-now>

Adventures in Telehealth: Health System Leaders Share Their Insights. (and) Technology’s Role in the Retail Revolution. Plante Moran Executive Healthcare Summit e-book. 2015.

University of Michigan press releases:

**01/29/04:** A perilous mixing with pain pills. Outlet: Herald Tribune   
**01/27/04:** Pain Pills, the Perilous Mixer. Outlet: New York Times   
**01/20/04:** Pain Medication, Alcohol Don't Mix. Outlet: Join Together Online   
**01/16/04:** Study Finds Many Patients Mix Pain Pills and Alcohol. St. Louis Post-Dispatch   
**01/15/04:** Alcohol Plus Drugs Equal Trouble. United Press International   
**01/15/04:** Heavy Drinkers Use Narcotics To Relieve Back Pain, Despite Possible Interactions. **01/05/04:** You carry 15 lbs. and what do you get? Outlet: gmtoday

2-1-08: [Conquering Disability in: U-M works with region's leaders to resolve problems together, featuring Andrew Haig, M.D., and efforts in Liberia and Ghana](http://www.med.umich.edu/medschool/dean/vod_Haig.htm). University of Michigan Global Reach podcast, at: http://www.med.umich.edu/medschool/dean/vod\_Haig.htm

**Abstracts, Preliminary Communications, Panel Discussions**

1. Haig AJ, Moffroid M, Henry S, Pope MH: AAEM Young Investigator Award: A technique for needle localization in the paraspinal muscle with cadaveric confirmation. Muscle & Nerve 12:774, 1989.
2. Haig AJ: Aggressive early medical management (Reply). J Occupational Med. 32(10):966, 1990.
3. Moffroid MD, Haig AJ, Henry SH, Haugh LD: Power spectral analysis of the longissimus and multifidus at one vertebral level. Orthop Trans 15:303, 1991.
4. Moffroid M, Henry S, Haig A, Haugh L, Ricamato A, Macdonald L: Endurance of longissimus and multifidus during static isometric trunk extension. Physiotherapy Canada 42(3):15, 1990.
5. Katz RT, Haig AJ, Clark BB, Dipaola RJ: Long term survival, prognosis, and life care planning for 29 patients with chronic locked-in syndrome. Arch Phys Med Rehabil 72:788, 1991.
6. Cody R, Haig AJ: Benign onset new neurologic symptoms in post traumatic syringomyelia. Arch Phys Med Rehabil 72:837, 1992.
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8. Haig AJ, Talley C, Grobler LJ, LeBreck DB: Paraspinal mapping: Quantified needle electromyography in lumbar radiculopathy. Electroencephalography Clin Neurophysiology 87:73, 1993.
9. Salone JC, Haig AJ: Methodology for a quality assurance follow-up of electrodiagnostic testing. Muscle & Nerve 16(10):1120, 1995.
10. Jurell KC, Shaker R, Mazur A, Haig A: Spectral analysis to evaluate hyoid muscle involvement in neck exercise. Muscle & Nerve 19(9):1224, 1996.
11. Haig AJ: The Spectrum of paraspinal abnormalities in low back syndromes: Paraspinal mapping in 114 patients. Muscle & Nerve 19(9):1224, 1996.
12. Haig AJ: How much needling is enough? Comparison of simplified paraspinal mapping protocols to the original. Muscle & Nerve 19(9):1224-1225, 1996.
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14. Haig AJ, Weiner J, Yang P: The minimum electromyography revisited: paraspinal mapping and the medial gastrocnemius? Arch Phys Med Rehabil 81:1276, 2000.
15. Haig AJ, Weiner J, Tew J, Quint D, Yamakawa K: Paraspinal electromyography, age, and lumbar spinal canal measurements in persons with low back pain. Arch Phys Med Rehabil 81, 2000.
16. Haig AJ, Geisser ME, Bade S, Miller Q, Yamakawa K: Back pain and disability in older persons: a multidisciplinary comparison with working-age patients. Arch Phys Med Rehabil 81:1277, 2000.
17. Tong HC, Haig AJ: Spurling’s test and cervical radiculopathy. Arch Phys Med Rehabil 81:1278, 2000.
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20. Chaudhuri S, Haig AJ, Buccholz R, Yamakawa K, Lamphiear R: The slow progressive isoinertial lifting evaluation: what does it mean? Arch Phys Med Rehabil 81:1281, 2000.
21. Wallbom AS, Geisser ME, Haig AJ, Yamakawa K, Montgomery D: Rate of Perceived exertion scale in chronic lower back pain patients. Arch Phys Med Rehabil 79(2):210, 2000.
22. Haig AJ, Rasmussen LR, Barroso C: Dissociation of vocational and medical rehabilitation in the 1990s: Study of educational interventions to increase resident physician initiation of vocational services. Arch Phys Med Rehabil 79(2):210, 2000.
23. Schmitt S, Nichols J, Haig AJ, Yamakawa K, Geisser M, Michel B: Pilot study of the clinical and physiologic effects of Feldenkrais movement therapy for back pain. Arch Phys Med Rehabil 79(2):210, 2000.
24. Koch JM, Haig AJ: Comparison of worker expectations and physiatrist predictions regarding return to work. Arch Phys Med Rehabil 79(2):210, 2000.
25. Tong H, Haig AJ. Posterior femoral cutaneous neuropathy. Arch Phys Med Rehabil 81:1117-8, 2000.
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27. Haig AJ, Perez A, Yamakawa K, Chaudhuri S, Lamphear R, Michel B: The interaction between cardiovascular and lifting tests in persons with chronic low back pain. Am J. Phys Med Rehabil 80(8), 2001.
28. Armstrong T, Ahuja V, Franzblau A, Haig AJ, Keyserling W, Levine S, Streilein K, Ulin S, Werner R: “Use of Conceptual Models for Applying Ergonomic Technologies to Overcome Barriers to Work.” Proceedings, RESNA, 2000.
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119. Haig AJ, Maslowski E, Loar S. The BackQuack Video Game: Consumerism Rather than Prevention for Back Pain. AcademyHealth’s 2012 Annual Research Meeting (ARM), June 24-26, Orlando, Florida
120. Haig AJ, Uren B, Diaz K, Loar S. FastBack: The Consequences of a Reproducible Complex Consultation Process on Emergency Department Management of Back Pain AcademyHealth’s 2012 Annual Research Meeting (ARM), June 24-26, Orlando, Florida
121. Fox D, Haig AJ, et al., The impact of required physiatric consultation on surgical rates. International Society for the Study of the Lumbar Spine, Amsterdam, May 28-June 1, 2012.
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124. Tomkins-Lane CC, Quint D, Gabriel S, Haig AJ. The nerve root sedimentation sign for diagnosis of lumbar spinal stenosis. Reliability, sensitivity and specificity. International Society for the Study of the Lumbar Spine, Amsterdam, May 28-June 1, 2012.
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127. Roszell K., Sandella, D. BS, Haig, AJ. MD, Yamakawa, K. MS. Spinal Stenosis: Factors that Influence a Patient’s Decision to Undergo Surgery. AAPMR, 2012
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