

AI MUKAI, MD

SUMMARY: Board Certified in Physical Medicine and Rehabilitation and Pain Medicine. Board eligible in Electrodiagnostic Medicine. Subspecialty fellowship trained in non-surgical musculoskeletal care and interventional diagnostic and therapeutic procedures including implantable devices and electrodiagnostic studies.

EMPLOYMENT

Texas Orthopedics Sports & Rehabilitation

4700 Seton Center Parkway Austin, TX 78759

EDUCATION/TRAINING

University of California Los Angeles, VA-Greater Los Angeles Area Healthcare System

ACGME accredited Pain Medicine Fellowship

Northwestern University, Rehabilitation Institute of Chicago (RIC)

Physical Medicine and Rehabilitation Residency

Honors: William Randolph Hearst Resident for impact on field of PM&R through national leadership, 2006 & 2007, The Scholl Recognition Award for Resident Research 2008,

Sarah Baskin Award for Excellence in Research, Resident Research of the Year 2008

Pennsylvania State University College of Medicine, Hershey Medical Center

Preliminary Internal Medicine Internship

Honors: Department of Hematology and Oncology, Intern of the Year, Department of Gastroenterology and Hepatology, Intern of the Year

Pennsylvania State University College of Medicine

Doctor of Medicine

Honors: Medical Student Research Award, Hershey Foods Scholar, Mohler Scholarship, Hammersla Scholarship 2001 and 2002, General Clinical Research Center Grant Scholar

Barnard College, Columbia University

B.A. Psychology

Honors: Roslyn S. Silver '27 Scholarship, Japanese-American Association Scholarship, International Starr Foundation Scholarship, Dean's List

OTHER AWARDS

2008	American Academy of Pain Medicine, Essentials of Pain Scholarship Award
2008 – 2009	Marquis Who's Who of American Women
2007 - 2008	The Global Directory of Who's Who
2007 - 2010	Marquis Who's Who in America
2007 - 2009	Marquis Who's Who in Science and Engineering
2007 - 2009	Marquis Who's Who in the World
2007 - 2008	Strathmore's WHO'S WHO
2006 - 2010	Marquis Who's Who in Medicine and Healthcare
2004	Pennsylvania Medical Society Poster Competition, 2 nd Place
1998	NYC Dept of Health, Health Research Training Program Competition, 1 st Place

NATIONAL LEADERSHIP POSITIONS

2009 – 2012	Chair, membership committee and member, Board of Governors, American Academy of Physical Medicine and Rehabilitation (AAPM&R)
2007 – 2008	Chair, nominating committee, RPC, AAPM&R
2006 – 2007	President, Resident Physician Council (RPC), AAPM&R
2005 – 2006	Secretary, RPC, AAPM&R
2005 – present	Co-moderator, PM&R Forum and Pain Physicians Forum, Studentdoctor.net
2004 – 2005	Chair, Bylaws/Operations and Strategic Planning Committee, RPC, AAPM&R
2002 – 2004	Medical Student Representative, Pennsylvania College of Internal Medicine
2002 – 2004	Founder, Penn State Chapter, Asian Pacific American Medical Student Association
2001 – 2002	Associate Trustee; Region III, American Medical Student Association (AMSA)
2001 – 2002	National Liaison to AMSA, Student National Medical Association (SNMA)
2000 – 2001	Chapter Co-President, AMSA, Penn State College of Medicine
2000 – 2001	Chapter Co-President, SNMA, Penn State College of Medicine

PUBLICATIONS AND PRESENTATIONS

Peer Reviewed Journal Publications

Mukai A, Deutsch A, Chen D. Differences in demographic characteristics of patients treated in the Model Spinal Cord Injury System (MSCIS) facilities and Medicare Fee-for-Service Beneficiaries Treated in Inpatient Rehabilitation Facilities. Submitted for publication in *PM&R*.

Roth D, Mukai A, Thomas P, Hudgins T, Alleva J. Cervical Radiculopathy. *Disease-a-Month, Contemporary Topics in the Management of Cervical Pain*. 2009;Vol 55:737-756.

Mukai A, Costa J. The Effect of Modafinil on Self-Esteem in Spinal Cord Injury Patients: A Report of 2 Cases and Review of the Literature. *Archives of Physical Medicine and Rehabilitation* 2005; 86:1887-1889.

Peer Reviewed Oral Paper Presentation

Mukai A, Deutsch A, Chen D. Differences in demographic characteristics of patients treated in the Model Spinal Cord Injury System (MSCIS) facilities and Medicare Fee-for-Service Beneficiaries Treated in Inpatient Rehabilitation Facilities. Selected for oral presentation at the Association of Academic Physiatrists Annual Assembly, Anaheim, CA. February 20, 2008.

Peer Reviewed Abstracts and Posters

Fish D, Bui C, Mukai A. Length of Fluoroscopy Used During Transforaminal Lumbar Epidural Steroid Injections as a Measure of Trainee Competency. Selected for presentation at the Association of Academic Physiatrists Annual Assembly, Bonita Springs, FL April, 2010

Fish D, Bui C, Mukai A. Length of Fluoroscopy Used During Interventional Spinal Procedures as a Measure of Trainee Competency. Selected for presentation at the Association of Academic Physiatrists Annual Assembly, Bonita Springs, FL April, 2010

Pangarkar S, Mukai A, Janssen C. Is it safe for patients to undergo epidural steroid injections while taking non-steroidal anti-inflammatory medications? Selected for presentation at the American Academy of Physical Medicine and Rehabilitation Annual Assembly, Austin, TX. September, 2009.

Cyril G, Mukai A, Fish D. Influence of ethnicity and gender on lumbar epidural steroid injection outcomes. Selected for presentation at the American Academy of Physical Medicine and Rehabilitation Annual Assembly, Austin, TX. September, 2009.

Mukai A, Pham Q. An Innovative Comprehensive Musculoskeletal Medicine Curriculum for First Year Medical Students. Selected for presentation at the Association of Academic Physiatrists Annual

Assembly, Colorado Springs, CO. February 24-28, 2009. Selected for presentation at the American Academy of Physical Medicine and Rehabilitation Annual Assembly, Austin, TX. September, 2009.

Mukai A, Dedes H, Fish D. The Effect of Needle Position and Contrast Spread Pattern on Outcome of Lumbar Transforaminal Epidural Steroid Injections (LTFESIs). Selected for poster presentation at the American Academy of Physical Medicine and Rehabilitation Annual Assembly, San Diego, CA. November 21, 2008.

Mukai A, Deutsch A, Chen D. Differences in demographic characteristics of patients treated in the Model Spinal Cord Injury System (MSCIS) facilities and Medicare Fee-for-Service Beneficiaries Treated in Inpatient Rehabilitation Facilities. Selected for poster presentation at the American Academy of Physical Medicine and Rehabilitation Annual Assembly, San Diego, CA. November 21, 2008.

Mukai A, Marciniak C, Sisung C. The falling young female athlete: A unique presentation of peripheral neuropathy in a patient with benign hypergammaglobulinemia of Waldenstrom. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Boston, MA. Sept. 29, 2007.

Mukai A, Chen D. Unique Presentation of a Patient with Recurrent Spinal Echinococcus Infection Resulting in Incomplete Paraplegia: A Case Report and Review of the Literature. Association of Academic Physiatrists Annual Assembly, San Juan, Puerto Rico. April 12, 2007. *American Journal of Physical Medicine and Rehabilitation* 2007; 86:4:S95.

Mukai A, Ahmed G, Duraski SA. The Need for Treatment of Asymptomatic Clostridium Difficile in an Inpatient Traumatic Brain Injury Population: A Case Series. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Honolulu, HI. November 10, 2006.

Mukai A, Ahmed G, Duraski SA. Ulnar Nerve Neuropathy After Serial Casting in a Brain Injured Patient with Congenital Ulnar Nerve Transposition. *American Journal of Physical Medicine and Rehabilitation* 2006; 85:3:F18. Association of Academic Physiatrists Annual Assembly, Ft. Lauderdale, FL. March 2, 2006.

Mukai A, Costa J. The Effect of Modafinil on Self-Esteem in Spinal Cord Injury Patients: 2 Case Reports. *Arcives of Physical Medicine and Rehabilitation* 2005;86:9:e43. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Philadelphia, PA. October 28, 2005.

Mukai A, Costa, J. The Effect of Modafinil on Self-Esteem in Spinal Cord Injury Patients: A Report of 2 Cases and Review of Literature. Pennsylvania Medical Society Poster Presentation, Hershey, PA. October 16, 2004.

Mukai A, Polomano RC, Blackall GF, Orkin FK. The Validation of Treatment Outcomes Pain Survey (TOPS) at the Penn State - Milton S. Hershey Medical Center Pain Management Clinic. Medical Student Research Symposium, Hershey, PA. April 30, 2004.

Polomano RC, Schuler HG, Blackall GF, Orkin FK, Mukai A, Steiner S, Carr D, Rogers W. Validation of the Treatment Outcomes Pain Survey (TOPS) in an Outpatient Pain Clinic. *Proceedings for the American Pain Society*, Baltimore, MD. March 15-17, 2002.

Schuler HG, Polomano RC, Blackall GF, Hahn MB, Mukai A, Orkin FK. Validation of the Treatment Outcomes Pain Survey in an Outpatient Pain Clinic. *Proceedings for the American Association of Anesthesiologists*, New Orleans, LA. October 15-17, 2001. *Anesthesiology* 2001; 95:A804.

Book Chapters

Pham Q, Mukai A. Imaging of the Shoulder Chapter. Singh, R. and Nagler, W. (Eds) *A Pocket Guide to Shoulder Disorders*. Elsevier, In Press.

Mukai A. Headache and Migraine Chapter. Williams, R. and Kahan, S. (Eds) In a Page Ambulatory Medicine. Malden, Massachusetts, Blackwell Science, 2007.

Mukai A. Medical School 3rd and 4th Year Rotations. The Official Student Doctor Network Guide to Medical School. Mill City Press, 2007.

Contributing editor, Organic Chemistry Section. Diallo, A. The Official Student Doctor Network MCAT Pearls. FEP International, 2007.

Literature review, Sommer H, Kantha B, and Chou L. Chapter 48. Examination of the cervical spine. Slipman CW, Derby R, Simeone FA. Interventional Spine : An Algorithmic Approach. Saunders, 2007.

Electronic Publications

Q&A with Dr. Joel Press. *The PM&R Resident* Vol 16:3 Summer, 2007.

The RPC Challenge. *Foundation for PM&R Update*. Vol5:2 Summer, 2007.

Residents' Update. A message from the RPC President. *The Physiatrist*. Vol 25:1 May, 2007.

Letter from the President: Ride for Rehab project. *The PM&R Resident*. Vol 16:1 Spring, 2007.

Conversation about fellowship with Dr. Michael Furman, director of an ACGME accredited pain fellowship in York, Pennsylvania, and member-at-large of the board of governors of the AAPM&R. *The PM&R Resident*. Vol 16:1 Spring, 2007.

The importance of outcomes research: a conversation with Dr. Lynn Gerber, Chief of Rehabilitation Medicine at the NIH and Dr. Michael Lupinacci, private practitioner in Harrisburg, PA. *The PM&R Resident*. Vol 16:1 Spring, 2007.

Profile of a Staff Physiatrist at RIC. *The PM&R Resident*. Vol 15:4 Fall, 2006.

Lectures

From Medical Student to Resident, lecture given to medical students at the American Academy of Physical Medicine and Rehabilitation Annual Assembly in Boston, MA. September 2007.

University of California Los Angeles, VA-Greater Los Angeles Area Healthcare System Resident Lectures

Facet, Medial Branch Block, and Radiofrequency Ablation

Morbidity and Mortality Conference

Medical Student Physical Exam Curriculum Small Group Sessions

Rehabilitation Institute of Chicago Resident Lectures

Spinal Injections: Indications and Safety

Brachial and Lumbosacral Plexus: Anatomy and Plexopathies

Lumbar Spondylolisthesis and Spondylolysis, Spinal Stability

Posterior Thigh and Buttocks Anatomy

Neurological examination, lecture given to medical student externs

Cervical Spine and Shoulder Physical Examination

PEER REVIEW ACTIVITIES

2006 – 2008	Coordinator and Contributing Editor, Rehab in Review
2005 – present	Journal Reviewer, Archives of Physical Medicine and Rehabilitation
2005	Journal Reviewer, Journal of General Internal Medicine
2001 – present	Book Reviewer, Lippincott Williams and Wilkins
2001 – present	Blackwell Scholar, Blackwell Publishing

RESEARCH ACTIVITIES

- 2006 – 2008 **Rehabilitation Institute of Chicago, Center for Pain Studies**
Norman Harden MD, Medical Director of Center for Pain Studies
Immunologic and metabolic abnormalities in Complex Regional Pain Syndrome.
Osteoarthritis of the knee as model of nociceptive pain.
- 2005 – 2009 **Northwestern University, Rehabilitation Institute of Chicago**
David Chen MD, and Anne Deutsch PhD
Medicare vs. Model system data on patients with spinal cord injury.
- 1999 – 2004 **Hershey Medical Center, Department of Anesthesiology,
New England Medical Center, Department of Anesthesiology**
Frederick Orkin MD, George Blackall PsyD, Rosemary Polomano RN PhD,
Daniel Carr MD. Multicenter validation of a survey of treatment outcome of pain.
- 1997 – 1999 **Health Research Training Program, Bureau of Maternity Services and Family
Planning, New York City Department of Health**
Fabienne Laraque MD, Acting Commissioner of Health
Early Head Start, Teen Pregnancy Prevention, NYC Women's Health Data Report.

SERVICE EXPERIENCE

- February, 2010 Medical Coverage for the 2010 Austin Marathon
October, 2007 Medical coverage for 2007 LaSalle Bank Chicago Marathon
2005 – 2008 Super-user, Cerner Project Mercury, Member, Labs and x-rays Committee, Ethics
Committee, Continuous Quality Improvement, Rehabilitation Institute of Chicago
2005 – present Mentor, Medical Student Mentoring Program, AAPM&R
2004 – 2005 Preceptor, Physical Diagnosis Curriculum, Penn State College of Medicine

PROFESSIONAL MEMBERSHIPS

Texas Medical Society, Travis County Medical Society
American Academy of Physical Medicine and Rehabilitation
American Medical Association

CERTIFICATION & LICENSURE

ABPM&R Board certified in PM&R and Pain Medicine
Texas State Medical License
California State Medical License
Advanced Cardiac Life Support and Basic Life Support

SKILLS AND HOBBIES

Fluent in Japanese. Trained in classical piano. Sketches and photographs published in magazines and websites.

References available upon request