

**CURRICULUM VITAE**  
Leighton Chan, MD, MPH  
Revised: September 1st, 2012

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**DATE OF BIRTH:** February 19, 1961

**BIRTHPLACE:** New York City, New York

**EDUCATION:**

1979-1983 BA, Political Science, Dartmouth College, Hanover, New Hampshire

International Affairs Intern, U.S. Senator Paul Tsongas (Mass.), Washington, D.C.

1983-1984 Mandarin Language Studies, Beijing Teachers University, Beijing, China

1984-1985 Post Baccalaureate Pre-Medical Major, Bryn Mawr College, Bryn Mawr, PA

1986-1990 Medical Doctorate, UCLA School of Medicine, Los Angeles, CA

Member, Education Policy and Curriculum Committee  
Student Representative, LCME Site Visit Task Force

1991-1994 Masters of Science, University of Washington School of Medicine, Seattle, WA

**Thesis:** "Early Functional Assessment and Disposition in Patients with Acute Stroke"

1994 -1996 Masters of Public Health, University of Washington School of Public Health, Seattle, WA

**Thesis:** "The Effects of Medicare's Payment System on the Behavior of Rehabilitation Hospitals" (see peer reviewed publication #1)

**POSTGRADUATE TRAINING:**

1990-1991 Intern in Medicine, University of Washington, Seattle, WA

1991-1994 Resident, Department of Rehabilitation Medicine, University of Washington, Seattle, WA

Participant in Research Enrichment Program for Psychiatrists,  
University of Missouri, Columbia, Missouri (1992-1993)

1993-1994 Chief Resident, Department of Rehabilitation Medicine, University of Washington, Seattle, WA  
(Masters of Science, 1994)

- 1994-1996 Clinical Scholar, Robert Wood Johnson Fellowship, University of Washington, Seattle, WA  
(Masters of Public Health, 1996)
- 1996 Congressional Fellow, Hon. Jim McDermott (Washington), Washington, D.C.  
Analyzed federal health care reform proposals
- 1994-1996 Visiting Scholar, Division of Quality Improvement  
Region 10, Centers for Medicare and Medicaid Services, Seattle, WA

**FACULTY POSITIONS HELD:**

- 1994-1996 Acting Instructor  
Department of Rehabilitation Medicine, University of Washington, Seattle, WA
- 1996-1997 Acting Assistant Professor  
Department of Rehabilitation Medicine, University of Washington, Seattle, WA
- 1997-2002 Assistant Professor  
Department of Rehabilitation Medicine, University of Washington, Seattle, WA
- 2002-2006 Associate Professor  
Department of Rehabilitation Medicine, University of Washington, Seattle, WA
- 2006-present Tenured Senior Investigator, Clinical Center, National Institutes of Health, Bethesda, MD

**HOSPITAL STAFF POSITIONS:**

- 1985-86 Research Assistant  
Pulmonary Division, Department of Medicine Columbia College of Physicians and Surgeons,  
New York City, NY
- 1985-86 Bronchoscopy and Pulmonary Function Technician  
Pulmonary Division, Department of Medicine  
Columbia College of Physicians and Surgeons, New York City, NY
- Summer 1987 Research Assistant  
Department of Psychiatry UCLA School of Medicine, Los Angeles, CA
- 1994-1996 Consulting Physiatrist, Medical Dental Staffing Inc., Seattle, WA  
Outpatient evaluation of patients with neuromuscular and musculoskeletal disabilities
- 1994-1996 Attending Physician, VA Puget Sound Health Care System, Seattle, WA
- 1994-1996 Electrodiagnostic Laboratory  
1994-1996 Spinal Cord Injury Outpatient Clinic
- 1996-2003 Attending Physician, Harborview Medical Center, Seattle, WA
- 1996-1997 Rehabilitation Outpatient Clinic  
1997-2003 Electromyography Laboratory
- 1997-2006 Attending Physician, University of Washington Medical Center

1997-1998	Integrated Health Subacute Rehab Unit
1997-2003	Spine Clinic, Bone and Joint Center
1997-2006	Pulmonary Rehabilitation Clinic
1999-2006	Rehabilitation Consultant, Lung Transplant Committee
2003-2006	Electromyography Laboratory

### **HOSPITAL LEADERSHIP POSITIONS:**

- 1997-2006 Medical Director, Pulmonary Rehabilitation Program, University of Washington Medical Center, Seattle, WA. Designed and implemented a new hospital program which received NIH funding (see peer reviewed publications #5, 15, 22, 23, 25). This program treated all patients in the lung transplant program.
- 2006 Medical Director for Rehabilitation Clinic, University of Washington Medical Center, Seattle, WA (.1 FTE). Responsible for overall quality of care provided in clinic.
- 2007-present Chief, Rehabilitation Medicine Department, Clinical Research Center, National Institutes of Health, Bethesda, MD. Supervise more than 100 staff, with an annual budget of more than \$11 million.
- 2010-present Chair, Information Technology Advisory Group. Advise the CC Director on all IT projects.

### **HONORS & AWARDS:**

- 1983 Dartmouth College: Rufus Choate Scholar and cum laude honors
- 1990 UCLA School of Medicine: Selected by the faculty for the Benjamin Rush & Martin Grossman Senior Honor Societies
- 1999 Young Academician Award, Association of Academic Physiatrists. This national award honors a young academic physiatrist who has demonstrated outstanding performance in the areas of teaching, research and/or administration. It is only given to only one member in any particular year.
- 1999 Honorable Mention Award, 1999 Best Research Paper, Society of Teachers of Family Medicine (Rosenblatt, R, Hart, G, Baldwin, LM, **Chan, L**, Schneeweiss, R. The Generalist Role of Specialty Physicians: Is there a Hidden System of Primary Care? *JAMA*, 1998;279:1364-70).
- 2002 Outstanding Teacher Award, Department of Rehabilitation Medicine, University of Washington School of Medicine. Given by the graduating residents to one faculty member each year.
- 2004 Best of the Best- 2003. The Editorial Board of the Archives of Surgery chose our article as one of the 10 best clinical articles published in 2003 (Flum, D, Dellinger, EP, Cheadle, A, **Chan, L**, Koepsell, TE. Intraoperative Cholangiography and Risk of Common Bile Duct Injury During Cholecystectomy. Lead Article, *JAMA* 2003;289:1639-1644).
- 2004 AAPM & R Presidential Citation Award for best abstract presented at the American Academy of Physical Medicine and Rehabilitation, Phoenix, AZ, Oct., 2004 (**Chan, L**, Shumway-Cook, A, Yorkston, K, Ciol, M., Kanny, E., & Hoffman, JM. Medicare Patients

with Mobility Disability and Satisfaction with Health Care: 1992-1996-2000). Two winners selected out of 277 abstracts.

- 2004 Outstanding Continuing Medical Education Faculty Award. This award is given once a year to a single University of Washington School of Medicine Faculty for excellence in CME teaching.
- 2006 JAMA- Top 25 Articles Published in 2005. This article was the 12<sup>th</sup> most frequently accessed article from the *JAMA* Web site in 2005 (Flum, DR, Dellinger, EP, Broeckel, J, Cheadle, A, **Chan, L**. Early Mortality Among Medicare Beneficiaries Undergoing Bariatric Surgical Procedures. *JAMA* 2005;294:1903-1908).
- 2007 PASSOR Musculoskeletal Research Award for a poster presentation: Friedly, J, **Chan, L**, Deyo, RA. Medicare Lumbosacral Steroid Injection Expenditures. The first author was a fellow under my supervision.
- 2007 Top 25 Hottest Articles, Archives of Physical Medicine and Rehabilitation, Jan-March, 07: **Chan, L**, Turner, JA, Comstock, BA, Levenson, LM, Hollingworth, W, Heagerty, PJ, Kliot, M, Jarvik, JG. The Relationship between Electrodiagnostic Findings and Patient Symptoms and Function in Carpal Tunnel Syndrome. *Arch of Phys Med Rehabi* 2007;88 (1):19-24
- 2007 Elected to the **Institute of Medicine**, Washington, DC.
- 2008 AAP Outstanding Platform Presentation- Friedly, J, **Chan, L**. Deyo, RA. Epidural Steroid Injections in Ambulatory Surgical Centers: 1995 to 2005. AAP Annual Meeting, Anaheim, CA.
- 2008 Dr. Otis B. Michael Lecturer, Johns Hopkins School of Medicine, Baltimore, MD.
- 2008 NIH Clinical Center Director's Award. For creative leadership involving the NIH-DoD TBI initiative.
- 2009 AAP Outstanding Platform Presentation- Campbell, A, **Chan, L**, Friedly, J. Management Patterns in Acute Low Back Pain: The Role of Early Physical Therapy. AAP Annual Meeting, Colorado Springs, CO.
- 2009 Awarded Japanese Association of Rehabilitation Medicine Traveling Fellowship
- 2010 Chattanooga Research Award from the American Physical Therapy Association. Award given for best clinical research paper published in the journal *Physical Therapy* in 2009. Shumway-Cook A, Ciol, M, Hoffman, JM, Dudgeon, BJ, Yorkston, K, & **Chan, L**. Falls in the Medicare Population: Incidence, Associated Factors, and Impact on Health Care. *Physical Therapy* 2009 89:324-332.
- 2010 NIH Director's Award. For effective collaboration in the early implementation of the Congressionally-established research initiative in traumatic brain injury (TBI).
- 2010 Outstanding Rotational Supervisor Award. For commitment to designing a challenging experience for NIH Presidential Management Fellows. Two awards given each year throughout NIH.
- 2011 Alfred Soffer Research Award. **Chan, L**, Kennedy, M, Woolstenhulme, J, Connors, G, Nathan, S, Weir, N, Chin, L, Drinkard, B, Keyser, R. Improved Six-Minute Walk Distance

and Cardiorespiratory Fitness in Patients with Pulmonary Arterial Hypertension Following an Intensive Exercise Program. American College of CHEST Physicians Annual Meeting, 2011, Honolulu, HI.

2012 Outstanding Graduate Student Research Award. Woolstenhulme, J, Keyser, R, Drinkard B, Chin, L, Kennedy, M, Nathan, S, Connors, G, **Chan, L**. Effects of a 10-week Aerobic Exercise Program on Cardiorespiratory Function in Patients with Interstitial Lung Disease. George Mason University, Fairfax, VA.

### **BOARD CERTIFICATION:**

1991 Diplomate, National Board of Medical Examiners  
 1995 Diplomate, American Board of PM & R, recertified through 2015  
 1998 Diplomate, American Board of Electrodiagnostic Medicine

### **LICENSE TO PRACTICE:**

1994-1996 Physician, State of Hawaii  
 1990-present Physician, State of Washington

### **PROFESSIONAL ORGANIZATIONS:**

1993-2004 Puget Sound Spine Interest Group

1993-present American Academy of PM & R  
 1996-2002 Health Policy and Legislation Committee  
 2004-2006 Health Policy and Legislation Committee  
 1997-2003 Rehabilitation Prospective Payment System Task Force  
 2004-2006 Medical Inpatient Rehab Criteria Task Force  
 2000-2009 Research Committee  
 2000-2004 Membership Marketing Committee  
 2002-2009 Board of Governors, Member-at-Large  
 2004-2009 AAP/AAPM&R Task Force  
 2005-2006 Research Task Force  
 2006-2007 Inpatient Rehabilitation Symposium Program Committee  
 2007-2009 Academy Audit Committee  
 2007-2009 BAAR membership data task force

1993-2006 Washington State Society of PM & R

1994-present Association of Academic Physiatrists  
 1996 Research Summit: “Developing Research Priorities in PM & R”  
 1996-1998 Legislative Affairs Committee  
 1997-2003 Research Committee, Co-Chairman (1999-2003)  
 2003-2009 Nominating Committee  
 2005-2009 Awards Committee

1997-2005 Washington State Medical Association

1997-1998 American Association of Cardiovascular and Pulmonary Rehabilitation

1998-present American Association of Neuromuscular and Electrodiagnostic Medicine

2005-present	American Congress of Rehabilitation Medicine
2006-2008	Physicians in Research Committee
2005-2006	Foundation for PM & R
2006-2009	Education/Research Fund Award Selection Committee
2007-present	Institute of Medicine
2008-2010	Vice-Chair, Section 8 (PM & R, Emergency Medicine and Family Medicine)
2010-2112	Chair, Section 8 (PM & R, Emergency Medicine and Family Medicine)
2010-2011	Chair, Ad Hoc Committee on Limiting Nominations
2008-2012	Member, IOM Membership Committee
2011-2012	Chair, Subcommittee on the 2012 Emphasis Area: Innovations at the Interface of Engineering and Medicine
2011-2012	Member, Subcommittee on Alternative Membership Committee Straw Polling Process

### **TEACHING RESPONSIBILITIES:**

#### **Courses:**

1996	Human Biology 522 Introduction to Clinical Medicine 1 (Tutor, 14hrs)
1997	Rehab 332 Pathophysiology for Rehab Professionals (10%, 4hrs)
1997	Epi 590 Research Mini-Methods, Guest Lecturer
1997-2005	Rehab 321 Medical Sciences, Guest Lecturer
1999-2005	Rehab 380, Occupational Therapy in the Health Care System, Guest Lecturer
1998	Primary Care in Rehabilitation Lecture Series (Course Development)
1999-2006	Weekly Resident Journal Club, Department of Rehabilitation Medicine (100%)
2002-2003	Rehab 584 Practice Trends and Issues, Guest Lecturer
2005	Conj 690 Chronic Care Clerkship (Didactic Sessions, 11 hours)

#### **Continuing Medical Education:**

1998-2004	Justice F. Lehmann Day Symposium Committee. Chair, 1998-2000
February 1999	Associate Chair, Outcomes Research Course, Association of Academic Physiatrists Annual Meeting, Orlando, Florida
1999, 2001-6	Review Course in Physical Medicine and Rehabilitation University of Washington, Department of Rehabilitation Medicine
	Co-Chair, Planning Committee 2002-4 Module Chair: Cardiopulmonary, Burns, Cancer Module Lecturer: Electrodiagnostics Module Mock Oral Examiner
2000	“US Government Funding for Rehabilitation” Gunma University (Japan) Therapy students visiting the University of Washington
March 2003	Course Facilitator, Council of Researchers Study Section and Grant Review: Quibbles and Fatal Flaws, AAP Annual Meeting, Ft. Lauderdale, FL

**Teaching Committees:**

- 1993-1994      Residency Admissions Committee  
2000-2006      Department of Rehabilitation Medicine
- 1993-1995 &    Residency Training Committee  
2000-2006      Department of Rehabilitation Medicine
- 1995-1996      Admissions Committee  
Robert Wood Johnson Clinical Scholars Program
- 1995-1996      Admissions Committee  
School of Public Health and Community Medicine
- 1997-2002      Director, Standardized Patients Evaluation Program  
Department of Rehabilitation Medicine
- 2005-2006      Admissions Committee  
University of Washington, School of Medicine

**Graduate School Committees:**

- 2001-2003      Graduate School Representative, Supervisory Committee, School of Pharmacy  
Brian Scott Custer, PhD candidate
- 2002-2005      Graduate School Representative, Supervisory Committee, School of Public Health and  
Community Medicine. Bert D. Stover, PhD candidate

**Research Fellow Supervision:**

- 1998-2000      Henry Lew, MD, K-12 Fellow, Department of Rehabilitation Medicine  
  
“The Use of Somatosensory Evoked Potentials and P300 in Predicting Functional Outcome of  
Comatose Patients: Implications for Rehab Intervention.”
- 1999-2001      Amit Jha, MD, MPH, K-12 Fellow, Department of Rehabilitation Medicine  
  
“Dissatisfaction with Medical Services Among Medicare Beneficiaries with Disabilities”  
(see peer reviewed publication #19)
- 2000-2002      David Flum, MD, RWJ Clinical Scholar and MPH candidate, Department of Surgery  
  
“Complications rates for cholecystectomy: the utility of cholangiography” (see peer reviewed  
publication #21)
- 2001-2006      Nick Giardino, PhD, T-32 Fellow, Department of Rehabilitation Medicine  
  
“Respiratory sinus arrhythmia is associated with efficiency of pulmonary gas exchange in  
healthy humans” (see peer reviewed publication #20)
- 2001-2003      Jeanne Hoffman, PhD, T-32 Fellow, Department of Rehabilitation Medicine

- “Costs of Traumatic Brain Injury in the Medicare Population” (see peer reviewed publication #24)
- 2002-2004 Seneca Storm, MD, Resident, Department of Rehabilitation Medicine
- “Compliance with Electrodiagnostic Guidelines for those Undergoing Carpal Tunnel Release in Washington State.” 2003 International Federation of Clinical Neurophysiology Young Investigator Fellowship Award given for this abstract. (see peer reviewed publication #32).
- 2003-2009 Janna Friedly, MD, MPH, K-12 Fellow, Department of Rehabilitation Medicine
- “Geographic Variation in the use of Epidural steroid injections for lumbosacral radiculopathy and axial spine pain.” (see peer reviewed publication #49).
- 2004-2006 Marjorie Wang, MD, RWJ Clinic Scholar, MPH candidate, Department of Neurosurgery.
- “Geographic Variation in the use neurosurgical procedures” (see peer reviewed publication #39)
- 2005-2006 Victor Legner, MD, K-12 Fellow, Division of Gerontology and Geriatric Medicine.
- “The effect of pre-operative exercise training.”
- 2006 Jackie Zinn, MD, Resident, Department of Rehabilitation Medicine
- “Evidenced based medicine evaluation of rehabilitation interventions.”
- 2006-2010 James J. Hill III, MD, K-12 Fellow Yale University School of Medicine, Department Of Occupational and Environmental Medicine
- “Application of multi-level hierarchical statistical models to predict short-term and long-term return-to-work outcomes, future absenteeism, and disability by major illness and/or injury, specific job title, and age.”
- 2007-2008 Amy Houtrow, MD, MPH, K-12 Fellow, UCSF School of Medicine, Department of Pediatrics.
- “Family Impacts of Childhood Disability”
- 2009-2010 Nizar Dowla, BA. ITRA student- Measuring Quality and Disparities in Provision of Rehabilitation Services
- 2011 Joseph Boninger, The Impact of the Patient Protection and Affordable Care Act on rehabilitation services
- 2012 Vincent Ma, NIH MRSP Scholar

**EDITORIAL RESPONSIBILITIES:**

Archives of Physical Medicine and Rehabilitation

- 2001-2003 Associate Editor for Health Services, Health Policy, and Epidemiology  
 2003-present Editorial Board member



2003-2008 Academy Editor  
 2003-present Editorial Executive Committee  
 2009-present Deputy Editor

**SPECIAL NATIONAL RESPONSIBILITIES:**

August 2000 National Center for Medical Rehabilitation Research (NIH) Ad Hoc Grant Review

May 2001 Veterans Affairs Rehabilitation Research & Development Outcomes Center Grant Review

July 2001 National Institute on Disability and Rehabilitation Research (Dept. of Education) Summative Review: Medlantic Managed Care Rehabilitation Research and Training Center

2003-2007 Oral Examiner, American Board of Physical Medicine and Rehabilitation

2003-present Foundation for Physical Medicine and Rehabilitation  
 Program Committee for Research Summit on building research capacity. Led two-day small group (see other publications, #4).

August 2004 Kaiser Foundation Rehabilitation Hospital-Research Center Planning Project

October 2004 Agency for Healthcare Research and Quality ad hoc Grant Review

2005-2007 People with Mobility Impairments, Technical Expert Panel. Providing expertise to the Agency for Health Research and Quality to help design questionnaire for people with mobility impairments.

2007 Military Research Materiel Command Joint Program Integration Panel. 12 member committee responsible for allocating \$300 million in DOD research funds for TBI and PTSD.

2007-2009 DoD TBI-Psychological Health Center of Excellence Concept of Operations Committee.

2008 Program review for Rehabilitation Institute of Chicago and Northwestern University Department of PM & R, Evanston, IL.

2010 Program review for University of Colorado, Department of PM & R, Denver, CO.

2010-2011 National Academy of Sciences (NRC) External Review of NIDRR and its Grantees

2010-2011 National Science Foundation WTEC Panel on Advances in European Rehab Technology

**SPECIAL LOCAL RESPONSIBILITIES:**

**UW Departmental:**

1996 James Lathrop, Nurse Practitioner student in spine clinic

2000 Li Ze Bing, MD, Hu Yong Shan, MD Visiting Chinese physiatrists training Spine Clinic

2000-2004 Musculoskeletal Medicine Search Committee (Chair, 2003-2004)

1998-2006 UWMC Clinical Management Committee

2002-2006 Chair, Alumni of the Year Award Committee

2006-2006 VA Neurorehabilitation Search Committee

2006-2006 UWMC SCI Search Committee

**UW Faculty Advisor to residents:**

1998-2000 David Kim, MD  
 1999-2002 Jay Han, MD  
 1999-2001 Tracy Jenkins, MD  
 2000-2003 Seneca Storm. MD  
 2002-2005 Andrea Karl, MD  
 2002-2005 John Leshner, MD  
 2005-2006 Troy Henning, DO

**UW Campus-wide:**

1997-2006 Emphasis Area Faculty, RWJ Clinical Scholars Program, University of Washington  
 1999 Research Review Committee- HSR & D Field Program, VA Medical Center, Seattle, WA  
 1998-2005 Continuum of Care Committee, University of Washington Academic Medical Center  
 2002 Veronica Smith, Candidate for a Masters in Electrical Engineering. Class EE409 "Special Projects in Electrical Engineering, Voice Recognition for Physicians."  
 2002-2004 Faculty Senate Committee on Collective Bargaining  
 2006 Electronic Effort and Cost Share PI Advisory Committee

**NIH**

2007 Search Committee, Chief Spiritual Ministry  
 2007 Search Committee, Director, Clinical Research Informatics  
 2008-2010 Earl Stadtman Investigator Search Committee  
 2010 Workgroup leader, NICHD Scientific Vision Plasticity Workshop  
 2008-present Clinical Center Executive Committee  
 2009-present Chair, Clinical Center Information Technology Advisory Group  
 2012-present Executive Advisory Committee/Board of Tutors, Medical Research Scholars Program  
 2112-present Member, NIH Rehabilitation Coordinating Committee

**RESEARCH FUNDING:**

1987 UCLA School of Medicine, Research grant for sexual dysfunction project (\$1,000)  
 1992-1993 University of Missouri Research Enrichment Program for Physiatrists  
 \$5,000 Research Grant to analyze peripheral neuropathy in burn patients  
 1993-1994 Co-Investigator, Burn Neuropathy II, grant from the Northwest Burn Foundation.  
 (\$10,000, PI: Anthony Margherita, MD)  
 1996-2000 Medical Epidemiologist (50% FTE), Division of Clinical Standards and Quality, Health Care Financing Administration, Region 10, Seattle, Washington (\$309,311 via IPA)  
 1997-1999 Project Officer, The Effect of Medicare's Payment System on Nursing Home Discharges by Rehabilitation Hospitals. Health Care Financing Administration Contract to the University of Washington Cost and Outcomes Center (\$5,000)  
 1997-2002 Co-Investigator (5% FTE, donated), University of Washington National Emphysema Therapy Trial. Multi-center randomized trial evaluating the efficacy of Lung Volume Reduction Surgery. Funded by NIH and CMS via contract (\$1,184,858, PI: Joshua Benditt)

- 1998-2003 Investigator (10% FTE in 2001), University of Washington Traumatic Brain Injury Model System sponsored by the US Department of Education (\$1,725,000, PI: Kathleen Bell, MD)
- 2000-2002 Project Investigator (22%FTE), Medicare Bonus Payments for Physician Care in Health Professional Shortage Areas. (\$2,087,825, PI: Gary Hart, PhD)
- 2001-2006 Co-Investigator (5% FTE), Multidisciplinary Clinical Research Center (\$5,196,086, PI: Richard A. Deyo, MD, MPH)
- 2000-2005 Medical Epidemiologist, Division of Quality Improvement, Center for Medicare and Medicaid Services, Region 10, Seattle, Washington (\$100,000/year via contract)
- 2002-2004 Project Investigator (13%FTE), Access to Physician Care for the Rural Medicare Elderly (\$2,087,825, PI: Gary Hart, PhD)
- 2003-2006 Co-Investigator (10% FTE), Improving Outcomes in Survivors of ALI/ARDS (NHLBI, \$2,000,000, PI: Gordon Rubenfeld, MD, MPH).
- 2003-2006 Principal Investigator (20% FTE), Health Care Disparities Among Medicare Beneficiaries with Disabilities (CDC \$675,000)
- 2004-2006 Co-investigator HF-ACTION Heart Failure: A CHF Trial Investigating Outcomes for Exercise Training (NHLBI, PI: Christopher O'Connor (Duke University)
- 2004-2006 K-12 Mentor to Dr. Victor Legnor (2% FTE), NIH: Roadmap Initiative, The University of Washington Multidisciplinary Clinical Research Training Program (NIH, \$1,172,239, PI: Deyo)
- 2005-2006 Principal Investigator (7% FTE), Race, Ethnicity, Disability and Health Care Disparities Among Medicare Beneficiaries. (NIH, \$50,000). Dr. Chan was the PI on a Supplemental Project funded through the Western Rehabilitation Research Networks (NIH:NCMRR, \$762,216, PI: Anderson).
- 2005-2006 Co-Investigator (5%FTE), Health Outcomes after Bariatric Surgery in the Medicare Population. (NIDDK \$300,000, PI: David Flum, MD, MPH).
- 2005-2006 Principal Investigator (13% FTE), Referral rates for outpatient rehabilitation after a Stroke. (CDC, \$300,000). Dr. Chan is PI on a Special Interest Project funded through the University of Washington's Prevention Research Center (CDC, PI: Logerfo). The special interest project uses Medicare survey and Kaiser HMO data to examine health care disparities among outpatient stroke patients.
- 2007-present NIH Tenured Senior Investigator. Supervise all the research activities of the Rehabilitation Medicine Department. Annual research budget \$2.3 million.
- 2008-present Principal Investigator, NIH-SSA Collaboration on Disability Determination. Multi-year research project (through 2016) to improve SSA's disability determination process. (Interagency Agreement \$15,666,275).
- 2008-Present Co-Director, Rehabilitation Program, USU Center for Neuroscience and Regenerative Medicine (PIs Koroshetz, Armstrong, \$70,000,000).  
 PI- Phenotyping Core, Long Term Cohort Study \$1,873,189/yr  
 Co-investigator- Application of Haptic Technology to TBI (Gerber PI, \$221,000)

Co-investigator- Exercise Training, Aerobic Capacity, Fatigue, and Activity Tolerance in TBI (Keyser, PI, \$240,000)

## **BIBLIOGRAPHY:**

### **Manuscripts refereed journals (h-index: Web of Science- 25, Scopus-25):**

1. **Chan, L**, Koepsell, T, Deyo, RA, Esselman, P, Haselkorn, J, Lowery, JP, Stolov, WC. The Effect of Medicare's Payment System on Patient Length of Stay, Charges, and Payments in Rehabilitation Hospitals. Special Article, *NEJM*, 1997;337:978-985.
2. Rosenblatt, R, Hart, G, Baldwin, LM, **Chan, L**, Schneeweiss, R. The Generalist Role of Specialty Physicians: Is there a Hidden System of Primary Care? *JAMA*, 1998;279:1364-70.
3. **Chan, L**, Rosenblatt, R, Houck, P, Hart, G, Baldwin, LM. Influenza Immunization Rates of Washington State Medicare Beneficiaries seen by Physiatrists in the Outpatient Setting in 1994. Lead Article, *Arch of Phys Med Rehabil* 1998;79:599-603.
4. **Chan, L**, Doctor, J, MacLehose, R, Lawson, H, Rosenblatt, R, Baldwin, LM, Jha, A. Do Medicare Patients with Disabilities Receive Preventive Services? A Population Based Study. *Arch of Phys Med Rehabil* 1999;80:642-646.
5. **The National Emphysema Treatment Trial Research Group**. Rationale and design of The National Emphysema Treatment Trial: a prospective randomized trial of lung volume reduction surgery. *Chest* 1999;116(6):1750-61, *J Thorac Cardiovasc Surg* 1999;118(3):518-28, *J Cardiopulm Rehabil* 2000;20(1):24-36 (concurrent publications).
6. Rosenblatt, R, Wright, G, Clitherow, P, Baldwin, LM, Chen, F, **Chan, L**, Hart, G. Emergency Room Use Among the Elderly: Does the Doctor-Patient Relationship Matter? *Am J Public Health* 2000;90:97-102.
7. Boninger, ML, Baldwin, M, Cooper, RA, Koontz, A, **Chan, L**. Pushrim Biomechanics and Seat Position. *Arch Phys Med Rehabil* 2000;81:608-13.
8. **Chan, L**, Ciol, Marcia. The Effect of Medicare's Payment System on Discharges to Skilled Nursing Facilities from rehabilitation Hospitals. *Arch Phys Med Rehabil* 2000;81:715-9.
9. Gan, SC, Beaver, SK\*, Houck, P, MacLehose, R, Lawson, HM, **Chan, L**. Treatment of Acute Myocardial Infarction and Mortality Among Women and Men. *NEJM* 2000;343:8-15. \*Co-first authors.
10. Fink, KS, Baldwin, LM, Lawson, HM, **Chan, L**, Rosenblatt, R. The Role of the Obstetrician-Gynecologist in Providing General Medical Care to Elderly Women. *J Fam Pract*, 2001;50:153-158. (The first author was a fellow.)
11. **Chan, L**, Houck, P, Prella, CM, MacLehose, R. Using Medicare Data Bases for Outcomes Research in Rehabilitation Medicine. *Am J Phys Med Rehabil* 2001;80:474-80.
12. Doctor, JN, **Chan, L**, MacLehose, R, Patrick, DL. Weighted Health Status in the Medicare Population: Development of the Weighted Health Index for the Medicare Current Beneficiaries Survey (WHIMCBS). *J Outcome Meas* 2001;4:721-739.

13. Rosenblatt, R, Baldwin, LM, **Chan, L**, Fordyce, M, Hirsch, I, Palmer, J, Wright, G, Hart, L. The Quality of Care Received by Diabetic Patients in Washington State: A Rural-Urban Comparison. *J Fam Prac* 2001;50:676-680.
14. **The National Emphysema Treatment Trial Research Group**. Patients at High Risk of Death After Lung Volume Reduction Surgery. *NEJM* 2001;345:1075-1083.
15. Boninger, ML, **Chan, L**, Harvey, R, Levy, CE, Garrison, CJ, Helkowski, W, Tran, T, Pine, Z, Levin, H. A Practical Approach to Resident Research Education in Physical Medicine and Rehabilitation. *Am J Phys Med Rehabil* 2001;80:706-712.
16. **Chan, L**, Doctor, J, Temkin, N, MacLehose, R, Esselman, P, Bell, K, Dikmen, S. Discharge Disposition From Acute Care Following Traumatic Brain Injury: The Effect of Insurance Type. **Lead Article**, *Arch Phys Med Rehabil* 2001;82:1151-4.
17. **Chan, L**, MacLehose, RF, Houck, PM. Impact of Physician Reminders on the Use of Influenza Vaccinations: a Randomized Trial. *Arch of Phys Med Rehabil* 2002;83:371-5.
18. **Chan, L**, Beaver, S, MacLehose, RF, Jha, A, Maciejewski, M, Doctor, JN. Disability and Health Care Costs in the Medicare Population. *Arch of Phys Med Rehabil* 2002;83:1196-201.
19. Jha, A, Patrick, DL, MacLehose, RF, Doctor, JN, **Chan, L**. Dissatisfaction with Medical Services Among Medicare Beneficiaries with Disabilities. **Lead Article**, *Arch of Phys Med Rehabil* 2002;83:1335-41. (The first author was a research fellow under my supervision).
20. Verville, RE, **Chan, L**. Legislative Issues: The Federal Financing and Regulation of Physical Medicine and Rehabilitation Services. *Physical Medicine and Rehabilitation Clinics of North America*. 2002;13:195-211.
21. Giardino, N. D., Glenny, R. W., Borson, S., & **Chan, L**. Respiratory sinus arrhythmia is associated with efficiency of pulmonary gas exchange in healthy humans. *Am J Physiol Heart Circ Physiol*, 2003;284(5), H1585-91. (The first author was a research fellow under my supervision).
22. Flum, D, Dellinger, EP, Cheadle, A, **Chan, L**, Koepsell, TE. Intraoperative Cholangiography and Risk of Common Bile Duct Injury During Cholecystectomy. **Lead Article**, *JAMA* 2003;289:1639-1644. (The first author was a research fellow).
23. Wagner, AK, Boninger, ML, Levy, C, **Chan, L**, Gater, D, Kirby, L. Peer Review: Issues in Physical Medicine and Rehabilitation, *Am J Phys Med Rehabil* 2003;82:790-802.
24. **National Emphysema Treatment Trial Research Group**. A Randomized Trial Comparing Lung-Volume-Reduction Surgery with Medical Therapy for Severe Emphysema. *NEJM* 2003;348:2059-73.
25. **National Emphysema Treatment Trial Research Group**. Cost Effectiveness of Lung-Volume-Reduction Surgery for Patients with Severe Emphysema. *NEJM* 2003;348:2092-102.
26. Hoffman, JM, Doctor, J, **Chan, L**, Whyte, J, Jha, A, Dikmen, S. Potential Impact of the New Medicare Prospective Payment System on Traumatic Brain Injury Inpatient Rehabilitation. *Arch of Phys Med Rehabil* 2003;84:1165-72. (The first author was a research fellow under my supervision).
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### **Manuscripts from the National Emphysema Treatment Trial Research Group**

I am a member of the NETT Research Group. To date, this collaboration has published more than 50 supplementary peer reviewed papers with the NETT Research Group as co-author.

### **Textbooks:**

Associate Editor, *Physical Medicine and Rehabilitation, 3<sup>rd</sup> Edition*, Editor, Randall L. Braddom, Elsevier, London 2006.

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### **Book Chapters:**

1. **Chan, L**, Richardson, M. "The ADA and other Legislative Issues Affecting PM & R." Chapter in *PM & R Secrets* by Young, O'Young, and Stiens. Hanley Belfus, Inc., Philadelphia, PA 1996.
2. Cardenas, D, Burns, S, **Chan, L**. "Medical Rehabilitation of the Patient with Spinal Cord Injury." Chapter in *Physical Medicine and Rehabilitation: The Complete Approach*. Grabois, M, Editor. Blackwell Science, Malden, MA 2000.
3. **Chan, L**, Richardson, M, Verville, RE. "Legislative Issues in the Field of Physical Medicine and Rehabilitation." Chapter in *PM & R Secrets* Second Edition by Young, O'Young, and Stiens. Hanley Belfus, Inc., Philadelphia, PA 2002.
4. Rosenblatt, R, Hart, G, Baldwin, LM, **Chan, L**, Schneeweiss, R. The Generalist Role of Specialty Physicians: Is there a Hidden System of Primary Care? Chapter in *Generalist Medicine and the U.S. Health System* by Isaacs, SL, Knickman, JR. Jossey-Bass, San Francisco, CA 2004
5. Alba, A, **Chan, L**. "Pulmonary Rehabilitation." Chapter in *Physical Medicine and Rehabilitation, 3<sup>rd</sup> Edition*, Editor, Randall L. Braddom. Elsevier, London 2006.
6. **Chan, L**, Richardson, M, Verville, RE. "Legislation, Disability, and Physical Medicine and Rehabilitation: Enhancing participation of persons with disabilities" Chapter in *PM & R Secrets* Fourth Edition by Young, O'Young, and Stiens. Hanley Belfus, Inc., Philadelphia, PA 2007.

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8. Solomon, B, Pfalzer, C, **Chan, L**, Parks, R. Research Funding Issues and Priorities in Cancer Rehabilitation. Chapter in *Cancer Rehabilitation Principles and Practice* by Stubblefield and Odell. Demos medical, New York City, NY 2009.
9. Chan, L, Woolstenhume, J, Kennedy, M, Drinkard, B, Keyser, R. Pulmonary Rehabilitation. Chapter in *Physical Medicine and Rehabilitation*, 4th Edition, Elsevier, London, 2010.
10. **Chan, L**, McGarvey, P. Using Pre-existing Datasets for Population-based Health Research. Chapter in *Principles and Practice of Clinical Research*, Third Edition, Elsevier, London, 2012.

### **Other Publications:**

1. Rosenblatt, R, Hart, G, Baldwin, LM, **Chan, L**, Schneeweiss, R. Specialist delivery of primary care. Letter to the Editor Reply *JAMA*- 1998 280 (19): 1659-1659.
2. **Chan, L**, Doctor, J, MacLehose, R, Lawson, H, Rosenblatt, R, Baldwin, LM, Jha, A. Do Medicare Patients with Disabilities Receive Preventive Services? A Population Based Study. October—November, 1999:14 *Not Just Once The Bimonthly Newsletter of HCFA's National Medicare Mammography Campaign*.
3. **Chan, L**. Evidence-Based Practice in PM & R, An Interview with Dr. Diana Cardenas. *The Physiatrist* 2001;17:8.
4. **Chan, L**. From the Editor: Medical Errors and PM & R. *The Physiatrist* 2004;20:2.
5. **Chan, L**, Boninger, M. Research Council Report, *AAP Newsletter*, 2001;19:3-7.
6. **AAPM & R Medical Inpatient Rehabilitation Criteria Task Force**. Standards for Assessing Medical Appropriateness Criteria for Admitting Patients to Rehabilitation Hospitals or Units. Report published by the American Academy of PM & R ([www.aapmr.org](http://www.aapmr.org)).
7. Friedly, J, **Chan, L**, Deyo, RA. Increases in Lumbosacral Injections in the Medicare Population: 1994 to 2001. Letters to the Editor Reply, *Spine*.
8. Committee on External Evaluation of NIDRR and its Grantees. Review of Disability and Rehabilitation Research: NIDRR Grantmaking Processes and Products. National Research Council. National Academy Press, Washington, D.C., 2011.
9. Reinkensmeyer, DJ, Bonato, P, Boninger, ML, Chan, L, Cowan, RE, Fregly, BJ, Rodgers, MM. WTEC Panel Report on: European Research And Development In Mobility Technology For People with Disabilities. World Technology Evaluation Center, Inc. Baltimore, Maryland, 2011.

### **Abstracts:**

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3. **Chan, L**, Lowery, J, Randall, D. The Effect of TEFRA Legislation on the Behavior of Rehabilitation Hospitals. *Rehabilitation R & D Progress Reports*, Department of Veterans Affairs, 1996:340.
4. **Chan, L**, Rosenblatt, R, Houck, P. Influenza Immunization Rates for Medicare Beneficiaries seen by Psychiatrists in the Outpatient Setting in 1994. Abstract, *Arch of Phys Med Rehabil*, 1997:78-9.
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6. **Chan, L**, Doctor, J, Jha, A. The Relationship between Disability and the Provision of Primary Care in Health Maintenance Organizations. *Am J Phys Med Rehabil*, 1998;77:181.
7. Doctor, J, **Chan, L**. Measuring Outcomes in Years of Healthy Life. *Am J Phys Med Rehabil*, 1998;77:176.
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9. **Chan, L**, Doctor, J, MacLehose, R, Lawson, H, Rosenblatt, R, Baldwin, LM, Jha, A. Patients with disabilities are less likely than nondisabled patients to receive preventive services. *AHCPR Research Activities*. 1999:230;10.
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11. Storm, S, **Chan, L**, Giardino, N, Kliot, M, Franklin, GM, Jarvik, J, Beaver, SK. Compliance With EMG Guidelines for those Undergoing Carpal Tunnel Release. *AAEM*, Sept. 2003.
12. Hoffman, JM, Shumway-Cook, A, Yorkston, K, Ciol, M., Kanny, E. & **Chan, L**. Effect of Mobility Disability on Access to and Satisfaction with Medical Care Among Medicare Beneficiaries in 2000. Accepted, American Congress of Rehabilitation Medicine, Feb. 2004.
13. **Chan, L**, Shumway-Cook, A, Yorkston, K, Ciol, M., Kanny, E., & Hoffman, JM. Design and Validation of an ICD-9 Crosswalk Identifying Secondary Conditions in Individuals with Disabilities. *Archives of Phys Med Rehabil* 2004;85:e20.
14. **Chan, L**, Shumway-Cook, A, Yorkston, K, Ciol, M., Kanny, E., & Hoffman, JM. Medicare Patients with Mobility Disability and Satisfaction with Health Care: 1992-1996-2000. *Archives of Phys Med Rehabil* 2004;85:e20.
15. Darshan Acharya, D, Shewchuk J, Heagerty, PJ, **Chan, L**, Jarvik, JG. Quantitative MR findings in patients with mild to moderate Carpal Tunnel Syndrome and correlations with electrodiagnostic studies, symptoms, and functional status. Presented at the American Society of Neuroradiology, June, 2004.
17. Yorkston, K, Hoffman, JM, Shumway-Cook, A, Ciol, M, Kanny, E & **Chan, L**. Health Care Disparities Among Medicare Beneficiaries with Communication Disabilities. Presented at the American Speech-Language-Hearing Association, Philadelphia, Nov. 2004.

18. **Chan, L**, Shumway-Cook, A, Yorkston, K, Ciol, M., Dudgeon, B., & Hoffman, JM. A longitudinal analysis of limitations in Activities of Daily Living: data from the Medicare Current Beneficiary Survey. Presented at the Association of Academic Physiatrists annual meeting, Feb. , 2005.
19. Gray, DT, ScD, Deyo, RA, Kreuter, W, Mirza, SK, Heagerty, PA, **Chan, L**. Population-Based Volumes, Rates, and Charges for Outpatient and Inpatient Lumbar Spine Surgery. Presented at Academy Health's Annual Research Meeting, Boston, June, 2005.
20. Hoffman, JM, Shumway-Cook A, Yorkston, K, Ciol, M., Kanny, E. & **Chan, L** Relationship Between the Course of Disablement and Preventable Secondary Conditions: Medicare Current Beneficiary Survey 1992-2000. Accepted, American Congress of Rehabilitation Medicine, May, 2005.
21. Wang, MC, **Chan, L**, Kreuter, W, Deyo, RA. Cervical Spine Surgery in the United States: Trends and Complications. Accepted, Congress of Neurological Surgeons, Oct., 2005.
22. Dudgeon, B, Hoffman, JM, Ciol, M, Shumway-Cook, A, Yorkston, K, **Chan, L** Older. Adults managing ADL difficulties at home: Who helps and what helps? ACRM/ASNR Annual Conference October, 2005 Chicago, Ill.
23. Friedly, J, **Chan, L**. Trends in Lumbar Epidural Steroid Injections. Association of Academic Physiatrists annual meeting, March, 2006.
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25. Ciol, M, Shumway-Cook, A, Hoffman, JM, Dudgeon, B, Yorkston, K, **Chan, L**. Minority Disparities in Mobility Disability and Activities of Daily Living Among Medicare Beneficiaries: Trends from 1992-2004. Grand Rounds presentation at the American Congress of Rehabilitation Medicine, Boston, MA, September 27<sup>th</sup>, 2006.
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27. **Chan, L**, Ciol, M, Shumway-Cook, A, Hoffman, JM, Dudgeon, B, Yorkston, K. A Longitudinal Evaluation of Individuals with Disabilities: Do they Receive Necessary Care? American Academy of Physical Medicine and Rehabilitation, Honolulu, HI, November 9<sup>th</sup>, 2006.
28. Friedly, J, **Chan, L**. Deyo, RA Geographic Variation in Lumbar Epidural Steroid Injections. Association of Academic Physiatrists annual meeting, April, 2007.
29. Sandel, ME, Wang H, Terdiman J, **Chan L**, Hoffman J, Berhel A, et al. Differences and Disparities in Post-Stroke Rehabilitation and Mortality: Results of a Large Population-Based Study in Northern California. American Academy of Physical Medicine and Rehabilitation annual meeting, Boston, MA, September, 2007.
30. Rasch, EK, Fingerhut, L, **Chan, L**. Incident Injuries among Community Dwelling Adults with Mobility Limitations in the United States. American Congress of Rehabilitation Medicine, Washington, DC, October, 2007.

31. Friedly, J, **Chan, L.** Deyo, RA. Epidural Steroid Injections in Ambulatory Surgical Centers: 1995 to 2005. Association of Academic Physiatrists annual meeting, San Diego, CA 2008.
32. Baldwin, LM, **Chan, L,** Andrilla, HA, Huff, ED, Hart, LG. Quality of Care for Acute Myocardial Infarction: Are the Gaps between Urban and Rural Hospitals Closing? Submitted to annual Academy Health Research meeting, June, 2008, Washington D.C.
33. Li, L, **Chan, L,** Gerber, NL. Musculoskeletal Impairment, its Impact on Function in Persons Receiving Allogeneic Bone Marrow Transplantation with Graft Versus Host Disease. 1<sup>st</sup> Asian Oceania Conference of Physical and Rehabilitation Medicine, 2008, Nanjing, China.
34. Gulley SP, Rasch EK, **Chan L.** Health Service Use, Access and Expenditures among Working Aged Adults with Chronic Health Care Needs: Bridging Chronic Conditions and Disabilities. 2009 Academy Health Annual Research Meeting, Chicago, IL, June 28-30, 2009; <http://www.academyhealth.org/files/arm/ARM-2009-Posters.pdf>.
35. Rasch EK, Gulley SP, **Chan L.** Emergency Room Use among Working Age Adults with Chronic Health Care Needs: A Problem of Access. 137<sup>th</sup> Annual Meeting of the American Public Health Association, Philadelphia, PA, November 7-11, 2009.
36. Friedly J, Middleton K, Rasch E, **Chan L.** Variations in Lumbar Transforaminal Epidural Steroid Injection (TFESI) Billing Practices by Specialty and Facility Type. *Am J Phys Med Rehabil.* 2010;89(4):S86.
37. Rasch EK, Gulley SP, **Chan L.** Use of Physical and Occupational Therapy Services by Adults in the United States. 2010 Combined Sections Meeting of the American Physical Therapy Association, San Diego, CA, February 17-20, 2010.
38. Friedly, J, **Chan, L.** Variations in Lumbar Transforaminal Epidural Steroid (TFESI) and Facet Joint Injection Billing Practices for Medicare Patients by Specialty and Facility Type. AAP Annual Meeting, 2010, Naples, FL.
39. **Chan L,** Rasch E, Terdiman J, Appelman J, Cheng P, Jette A, Brandt, D<sup>1</sup>, Sandel E. Functional Outcome after Stroke: Comparing Post-Acute Care Sites. ACRM Annual Meeting, 2011, Atlanta, GA.
40. Jette, A, Pengsheng, Ni, Rasch, EK, Appelman. J, Sandel, EM, **Chan, L.** Evaluation of Patient and Proxy Responses on the Activity Measure for Post-Acute Care. ACRM Annual Meeting, 2011, Atlanta, GA.
41. **Chan, L,** Kennedy, M, Woolstenhulme, J, Connors, J, Nathan, S, Weir, N, Chin, L, Drinkard, B, Keyser, R. Improved Six-Minute Walk Distance and Cardiorespiratory Fitness in Patients with Pulmonary Arterial Hypertension Following an Intensive Exercise Program. CHEST Annual Meeting, 2011, Honolulu, HI.
42. Sandel, EM, Appelman, J, Terdiman, J, Jette, A, Rasch EK, Brandt, D, TeSelle, M, **Chan, L.** Functional Outcomes after Stroke: Evaluating the Feasibility of Using a Single Computer Adaptive Measure Across Settings. AAPMR Annual Meeting, 2011m Orlando, FL.
43. Weinstein, AA, Keyser, RE, Kennedy, M, Nathan, SD, Connors, G, **Chan, L.** Fatigue Reduction in Pulmonary Hypertension: a Preliminary Report on a NIH Exercise Trial. American Psychosomatic Society Annual Meeting, March, 2012.

44. Dsurney, J, Acevedo, Ana, Kim, M, Latour, L, Butman, B, Chan, L, McGovern, L. The Role of Early MRI in the Emergency Department Setting for the Evaluation of Mild Traumatic Brain Injury: A Case Report. Annual Meeting Association of Academic Physiatrists. Las Vegas, NV, March 2012.
45. **Chan L**, Rasch E, Huynh M, Ho P-S, Heuser A, Houtenville A. Disability Determination and the Social Security Administration: A Novel Method for Identifying Conditions that Need Immediate Assessment. Annual Meeting Association of Academic Physiatrists. Las Vegas, NV, March 2012.
46. Chin, L, Keyser, R, Woolstenhulme J, Kennedy, M, Drinkard, B, Connors, G, Nathan, S, **Chan, L**. Severity of Exercise Intolerance and Functional Aerobic Impairment in Patients with Pulmonary Hypertension. Annual Meeting of the American College of Sports Medicine, San Francisco, CA, May, 2010.
47. Woolstenhulme, J, Keyser, R, Drinkard B, Chin, L, Kennedy, M, Nathan, S, Connors, G, **Chan, L**. Effects of a 10-week Aerobic Exercise Program on Cardiorespiratory Function in Patients with Interstitial Lung Disease. Annual Meeting of the American College of Sports Medicine, San Francisco, CA, May, 2010.

#### **NATIONAL INVITATIONAL LECTURES:**

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|----------------|--|
| February 1995  | “Issues in Health Care Reform.”<br>11 <sup>th</sup> Annual PM & R Update, Salt Lake City, Utah   |
| March 1996     | “Medicare Payment and Inpatient Rehabilitation.”<br>New England Rehabilitation Hospital, Portland, Maine   |
| March 1996     | “The Effects of Medicare Payment on Inpatient Rehabilitation: Preliminary Results.”<br>Boston University School of Public Health, Boston, Massachusetts  |
| March 1997     | “The Effects of Medicare’s Payment System on Length of Stay, Charges and Payments in Rehabilitation Hospitals: Policy Implications.” Bureau of Policy Development,<br>Health Care Financing Administration, Washington, D.C. |
| May 1997       | “Pulmonary Rehabilitation and Lung Volume Reduction Surgery.” Northwest<br>Association of Cardiovascular and Pulmonary Rehabilitation, Leavenworth, WA   |
| September 1997 | “Medicare’s Payment System and Rehab Hospitals: Recent Changes” Northwest<br>Association of Physical Medicine and Rehabilitation Annual Conference, Portland, Oregon   |
| June 1998      | “Status Report, Lung Volume Reduction Surgery.” Tri-regional Medical Directors<br>Conference, Seattle, WA  |
| February 1999  | “The Use of Large Medicare Data Bases in Rehabilitation Outcomes Studies.”<br>AAP Annual Meeting, Orlando Florida  |
| November 2002  | “Study Designs Commonly Used in Rehabilitation Research.” Association of Academic<br>Physiatrists Annual Meeting, Orlando, FL.   |
| September 2004 | Using large datasets in Rehabilitation Research. Kaiser of Northern California<br>Department of Rehabilitation Medicine/Division of Research.  |

- July 2006 Application of the ICF to the MCBS. What do we know about Medicare patients with disabilities. Department of Health and Human Services, New Freedom Initiative, ICF Committee, Washington, DC.
- February 2007 The Organization of Post-Acute Care. State of the Science Symposium sponsored by NIDRR and RIC, Washington, DC.
- February 2007 Disparities in Post-Stroke Rehabilitation: Results of an Integrated Health System Study in Northern California. State of the Science Symposium sponsored by NIDRR and RIC, Washington, DC.
- March 2007 NIH Roadmap, Rehabilitation Research, and the PDB. National Institute on Disability and Rehabilitation Research Rehabilitation Engineering Research Centers Project Directors' Meeting, Washington, DC.
- June 2007 Rehabilitation Research at NIH: Beyond NCMRR. A Randomized Trial of Surgery for CTS. Keynote Address, University of Washington School of Medicine, 50<sup>th</sup> Anniversary Justice F. Lehmann Day Symposium.
- June 2007 Using Medicare Data in Health Services Research. Clinical Research Center Grand Rounds. NIH, Bethesda, MD.
- June 2007 Disability and Health Care Disparities. Interagency Committee on Disability Research Quarterly Meeting, Washington, DC.
- October 2007 Health Care Disparities and the MCBS  
University of Washington, Department of Rehabilitation Medicine
- April 2008 Demystifying Medicine - "Traumatic Brain Injury: Mechanisms, Treatment and Challenges." NIH, Office of the Director, Bethesda, Maryland
- November 2008 Increases in the use of Epidural Steroid Injections for Low Back Pain. NIH NINDS Grand Rounds.
- November 2008 Otis B. Michael Lecture: Low Back Pain, an Epidemiological Approach. Department of Physical Medicine and Rehabilitation, Johns Hopkins School of Medicine.
- December 2008 New Frontiers in Traumatic Brain Injury: Epidemiology, Evaluation and Treatment. Medicine for the Public: 2008 Lecture Series. NIH, Bethesda, MD.
- February 2009 Building a Rehabilitation Research Program: Metrics of Success. Program for Academic Leadership, Association of Academic Physiatrists. Colorado Springs, CO.
- June 2009 Using Medicare databases in Rehabilitation Research: Lumbar Epidural Steroid Injections- an Epidemiological Analysis. James R. Swenson Scientific Symposium. University of Utah, Salt Lake City, UT.
- June 2009 Honorary Keynote Speaker, Department of Rehabilitation Medicine, University of Miami, Miller School of Medicine, Miami, FL.
- November 2009 10<sup>th</sup> Annual Ben L. Boynton, MD Lecturer in Physical Medicine and Rehabilitation, Department of PM & R, NW School of Medicine, Rehabilitation Institute of Chicago

- February 2010 JARM Lecture, Kieo University Hospital, Tokyo, Japan.
- February 2010 Grand Rounds, Tokyo Bay Rehabilitation Hospital, Tokyo, Japan.
- February 2010 Grand Rounds, Department of Orthopedic Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan.
- April 2010 AAP Research Council, Best Practices for Establishing a Psychiatric Research Department in an Academic Medical Center, Naples, FL.
- November 2010 Measurement of Human Function: New Tools and New Applications. Plenary Session, AAPMR annual meeting, Seattle, WA.
- November 2010 Wearable Sensor Technology. NSF/WTEC Workshop on International Assessment of Research and Development in Technologies for Persons with Disabilities, Washington, D.C.
- November 2010 Future of Rehabilitation Medicine: How healthy are we? 100<sup>th</sup> Anniversary of the Department of Rehabilitation Medicine, Mount Sinai Medical Center, NYC, NY.
- May 2011 The Impact of Healthcare reform on Rehabilitation Medicine. PITT Panther Ground Rounds. UPITT, Pittsburgh, PA.
- March 2012 Congressional Testimony before House Ways and Means Social Security Subcommittee: Securing the future of the Social Security Disability Insurance Program. Washington, DC.
- September 2012 Confronting Challenges in the US Disability Determination Process: NIH, Boston University, and the Social Security Administration. 4<sup>th</sup> Congress, International Association of Bodily Impairment. Montreal, CA.

**NATIONAL PRESENTATIONS:**

- November 1995 “Early Functional Assessment and Outcome in Patients with Acute Stroke.” Poster Presentation, AAP M & R Annual Meeting, Orlando, FL
- November 1995 “The Effects of Medicare’s Payment System on the Behavior of Rehabilitation Hospitals.” Robert Wood Johnson Clinical Scholars Meeting, Ft. Lauderdale, FL
- February 1997 “The Effects of Medicare’s Payment System on Length of Stay, Charges and Payments in Rehabilitation Hospitals.” Association of Academic Psychiatrists Annual Meeting, Colorado Springs, CO
- June 1997 “The Effects of Medicare’s Payment System on Length of Stay, Charges and Payments in Rehabilitation Hospitals.” Poster Presentation Northwest Health Policy Research Conference. Seattle, WA
- November 1997 “Influenza Vaccinations of Washington State Medicare Beneficiaries seen by Psychiatrists in the Outpatient Setting in 1994. Poster Presentation. Annual AAPM & R Meeting, Atlanta, Georgia
- February 1998 “Measuring Outcomes in Years of Healthy Life.” Poster Presentation, Annual AAP Meeting, San Antonio, TX



- December 1999 The Effect of Insurance Type on the Provision of Care Following TBI. Poster presented at Interagency Conference on TBI, Bethesda, MD
- February 2000 Disability and Dissatisfaction with Care in the Medicare Population. Poster presented at the AAP Annual Meeting in San Diego, CA
- October 2002 Respiratory sinus arrhythmia is associated with the efficiency of pulmonary gas exchange in healthy humans. International Society for the Advancement of Respiratory Psychophysiology, Washington, DC.
- October 2002 Phase between respiration and respiratory sinus arrhythmia varies with respiration rate. Poster presentation, Society for Psychophysiological Research, Washington, DC.
- September 2004 Medicare Patients with Mobility Disability and Satisfaction with Health Care: 1992-1996-2000. Presented at the Academy of PM & R Annual Meeting, Phoenix, AZ.
- October 2005 Relationship Between the Course of Disablement and Preventable Secondary Conditions: Medicare Current Beneficiary Survey 1992-2000. American Congress of Rehabilitation Medicine, Chicago, IL.
- October 2005 The Importance of Research to Clinicians. Presented at the Academy of PM & R Annual Meeting, Philadelphia, PA.
- September 2006 The Spectrum of rehabilitation: Overview of settings and providers for rehabilitation care. Pfizer Rehabilitation Advisory Board, Boston MA.
- April 2007 Issues in Translational Medicine. Presented at the Association of Academic Physiatrists annual meeting, San Juan, Puerto Rico.
- May 2008 Pulmonary Rehabilitation, Who, What and Why? National Rehabilitation Hospital, Washington, DC.
- April 2011 Rehabilitation Research Models. K-12 Mentor program. Association of Academic Physiatrists annual meeting, Chandler, AZ.
- April 2011 Pathways to Research Success. K-12 Mentor program. Association of Academic Physiatrists annual meeting, Chandler, AZ.
- September 2011 USU-HJF Military Medicine Symposium: The TBI Spectrum. Moderator-Rehabilitation and Reintegration Panel. Washington, DC.
- October 2011 The SSA-NIH-BU Collaboration to Improve the Disability Determination Process. American Public Health Association Annual Meeting, Washington, DC.
- March 2012 Choosing a Research Mentor. K-12 Mentor program. Association of Academic Physiatrists annual meeting, Las Vegas, NV.
- March 2012 Measuring Academic Productivity. Physiatric Academic Leadership Course. Association of Academic Physiatrists annual meeting, Las Vegas, NV.

**LOCAL PRESENTATIONS:**

- July 1995 “Choosing a Research Project.”  
Research Methods Course, Department of Health Services  
University of Washington
- June 1996 “The Effects of Medicare Payment on Inpatient Rehabilitation.”  
Clinical Scholars Research Reports, University of Washington School of Medicine
- March 1997 “Influenza Immunizations in Medicare Beneficiaries seen by Physiatrists in Washington State.” Medicare Advisory Committee Meeting, Seattle, WA
- August 1997 “The Utilization of Large Databases in Health Services Research.” Research Methods Course, Department of Health Services, University of Washington
- February 1998 “Designing Research Using Large Databases.” Seminars in Epidemiology  
University of Washington Medical Center
- June 1998 “Pulmonary Rehabilitation and Lung Volume Reduction Surgery.” Grand Rounds,  
Roosevelt Primary Care Clinics, University of Washington School of Medicine
- October 1998 “The Impact of the Balanced Budget Act on the Long Term Care and Sub-acute Market.” Continuum of Care Committee, University of Washington School of Medicine
- October 1998 “Medicare Issues Confronting the Department of Rehabilitation Medicine.” Consumer Advisory Board, Department of Rehabilitation Medicine, University of Washington School of Medicine
- December 1998 “The Role of Pulmonary Rehabilitation in the National Emphysema Therapy Trial.” Pulmonary Rehabilitation Satellite Training, University of Washington Medical Center
- February 1999 “Estimating the Public Costs of Traumatic Brain Injury.” Harborview Injury Prevention Center Seminars, Harborview Medical Center
- March 1999 “Pulmonary Rehabilitation in the National Emphysema Therapy Trial.” Pulmonary Rehabilitation Satellite Training, University of Washington Medical Center
- December 1999 “Development and validation of the Medicare Current Beneficiary Survey Quality of Life Measure.” University of Washington Center for Cost and Outcomes Research Seminar
- January 2000 “The Effect of Insurance Status on Discharge Disposition after TBI.” Consumer Advisory Board, Department of Rehabilitation Medicine, University of Washington School of Medicine
- March 2000 “Analysis of the Health Professional Shortage Area Incentive Program.” Health Care Financing Administration, Region 10, Seattle
- July 2000 “Treatment of Acute Myocardial Infarction and 30-Day Mortality in Women and Men.” Scientific Seminars, Health Care Financing Administration, Region 10, Seattle
- July 2000 Medicare’s TEFRA Payment System: Its Effect on Rehab Hospitals. Why we need a PPS.” Scientific Seminars, Health Care Financing Administration, Region 10 Seattle

- November 2000 Medicare Bonus Payment Program, DHHS/ State Agency Head Meeting. Health Care Financing Administration, Region 10, Seattle
- March 2007 Rehabilitation at the Clinical Research Center, Patient Advisory Group, CRC
- April 2007 Rehabilitation at the Clinical Research Center, Medical Executive Committee, CRC
- December 2009 Intramural Rehabilitation Research, NCMRR Advisory Group Meeting
- October 2009 Best Practices in Building a Rehabilitation Research Program. Course Director. AAPM & R annual meeting. Austin, TX.
- July 2010 Careers in Medicine Panel Discussion for the NIH Intramural research Training Program's summer students.
- February 2011 Realizing the Power of Emotional Intelligence. Lessons Learned: Emotional Intelligence in Practice. NIH Office of Workforce Management and Development 2011 Leadership Development Lecture Series
- May 2012 Managing through Dwindling Budgets: Practical Strategies for Managing with Tight Budgets. NIH Management Seminar Series.
- August 2012 Rehabilitation Medicine at the NIH Clinical Center. Summer Student Lecture Series.
- August 2012 Perspectives of a Clinical Center Department Head. Presidential Management Fellows Lecture Series.