

## **CURRICULUM VITAE**

Leighton Chan, MD, MPH

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**DATE OF BIRTH:**

**BIRTHPLACE:**

**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, Pennsylvania
- 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 publications, #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 Physiatrists,  
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 Scientist, Clinical Research 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.
- 2006-present Chief, Rehabilitation Medicine Department, Clinical Research Center, National Institutes of Health, Bethesda, MD. Supervise 60 full time employees, 20 contractors, with an annual budget of more that \$10 million.

### **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 Best Platform Presentation- Friedly, J, **Chan, L**, Deyo, RA. Epidural Steroid Injections in Ambulatory Surgical Centers: 1995 to 2005. AAP Annual Meeting, Anaheim, CA

#### **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-present Research Committee  
 2000-2004 Membership Marketing Committee  
 2002-present Board of Governors, Member-at-Large  
 2004-present AAP/AAPM&R Task Force  
 2005-2006 Research Task Force  
 2006-2007 Inpatient Rehabilitation Symposium Program Committee  
 2007-present Academy Audit Committee  
 2007-present 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-present Nominating Committee  
 2005-present 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-present Physicians in Research Committee
- 2005-2006 Foundation for PM & R  
 2006-present Education/Research Fund Award Selection Committee
- 2007-present Institute of Medicine

### **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-present 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.” (manuscript currently under review)
- 2004-2006 Marjory Wong, MD, RWJ Clinic Scholar, MPH candidate, Department of Neurosurgery.  
“Geographic Variation in the use neurosurgical procedures” (see peer reviewed publication #39)
- 2005-present 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-present 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-present Amy Houtrow, MD, MPH, K-12 Fellow, UCSF School of Medicine, Department of Pediatrics  
“Family Impacts of Childhood Disability”

**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-present Academy Editor  
2003-present Editorial Executive Committee

**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-present DoD TBI-Psychological Health Center of Excellence Concept of Operations Committee

### **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 University:**

- 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-present Clinical Center Executive 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 Psychiatrists  
\$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 Rubinfeld, 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 is 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 Scientist. Supervise all the research activities of the Rehabilitation Medicine Department and its Physical Disabilities Branch, a cooperative agreement between NICHD and the Clinical Research Center. Annual research budget \$2.5 million.
- 2008-2011 Principal Investigator, NIH-SSA Collaboration on Disability Determination. Three year research project to improve SSA's disability determination process. (Interagency Agreement \$1,625,000)

## **BIBLIOGRAPHY:**

### **Manuscripts of original research in refereed journals:**

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 for Medicare Beneficiaries seen by Psychiatrists 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, Prela, 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.
14. 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.
15. **The National Emphysema Treatment Trial Research Group**. Patients at High Risk of Death After Lung Volume Reduction Surgery. *NEJM* 2001;345:1075-1083.
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. 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).
21. 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).

22. **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.
23. **National Emphysema Treatment Trial Research Group.** Cost Effectiveness of Lung-Volume-Reduction Surgery for Patients with Severe Emphysema. *NEJM* 2003;348:2092-102.
24. Hoffman, JM, Doctor, J, **Chan, L**, Whyte, J, Jha, A, Dikmen, S. 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).
25. Flum, DR, Cheadle, A, Prael, C, Dellinger, EP, **Chan, L**. Bile Duct Injury During Cholecystectomy and Survival in Medicare Beneficiaries *JAMA*. 2003;290:2168-2173.
26. Baldwin, LM, MacLehose, RF, Hart, G, Beaver, SK, Every, N, **Chan, L**. Quality of Care for Acute Myocardial Infarction in Rural and Urban U.S. Hospitals. *J of Rural Health* 2004;20:99-108.
27. **Chan, L**, Hart, LG, Ricketts, TC, Beaver, SK. An Analysis of Medicare's Incentive Payment Program for Physicians in Health Professional Shortage Areas. *J of Rural Health* 2004;20:109-117.
28. **National Emphysema Treatment Trial Research Group.** Safety and efficacy of median sternotomy versus video-assisted thoracic surgery for lung volume reduction surgery. *J Thorac Cardiovasc Surg.* 2004 May;127(5):1350-60.
29. Giardino, ND, **Chan, L**, Borson, S. Combined Heart Rate Variability and Pulse Oximetry Biofeedback for Chronic Obstructive Pulmonary Disease: Preliminary Findings. *Appl Psychophysiol Biofeedback* 2004;29:121-133.
30. Storm, S, Beaver, SK, Giardino, N, Klot, M, Franklin, GM, Jarvik, JG, MPH, **Chan, L**. Compliance with Electrodiagnostic Guidelines for Patients Undergoing Carpal Tunnel Release. *Arch of Phys Med Rehabil* 2005;86:8-11. (The first author was a resident under my supervision).
31. **Chan, L**, Shumway-Cook, A, Yorkston, K, Ciol, M., Dudgeon, B., & Hoffman, JM. Design and Validation of an ICD-9 Crosswalk Identifying Secondary Conditions in Individuals with Disabilities. *Arch of Phys Med Rehabil* 2005;86:1065-9.
32. Shumway-Cook, A, Ciol, M, Yorkston, K, Hoffman, JM, & **Chan, L**, Mobility Disability in the Medicare Population: Prevalence and Sociodemographic Correlates. *J of Am Geriatrics Society* 2005;53:1217-21.
33. Flum, DR, Dellinger, EP, Broeckel, J, Cheadle, A, **Chan, L**. Early Mortality Among Medicare Beneficiaries Undergoing Bariatric Surgical Procedures. Lead Article, *JAMA* 2005;294:1903-1908.
34. Hoffman, JM, Yorkston, K, Shumway-Cook, A, Ciol, M, Dudgeon, BJ, & **Chan, L**, Effect of Communication Disability on Satisfaction with Health Care: A Survey of Medicare Beneficiaries. *Am J Speech-Lang Path* 2005;14(3):221-8.
35. Ciol, M, Hoffman, JM, Dudgeon, BJ, Shumway-Cook, A, Yorkston, K, & **Chan, L**. Understanding The Use of Weights in the Analysis of Data from Multi-Stage Surveys. *Arch of Phys Med Rehabil* 2006;82(2):299-303.
36. **Chan, L**, Hart, LG, Goodman, DC. Geographic Access to Health Care for Rural Medicare Beneficiaries. *J of Rural Health* 2006;22(2):140-6.

37. Grey, D, Mirza, S, Heagerty, P, **Chan, L**, Kreuter, W, Comstock, B, Deyo, RA. Population-based Trends in Volumes and Rates of Ambulatory Lumbar Spine Surgery. *Spine* 2006;31(17):1957-1963.
38. Wang, MC, **Chan, L**, Maiman, DJ, Kreuter, W, Deyo, RA. Trends in Complications and Mortality Associated with Cervical Spine Surgery for Degenerative Disease. *Spine* 2007;32 (3):342-347 .
39. **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.
40. Hoffman, JM, Shumway-Cook, A, Yorkston, K, Ciol, M, Dudgeon, BJ, & **Chan, L**, Association of Mobility Limitations with Health Care Satisfaction and Use of Preventive Care: A Survey of Medicare Beneficiaries. *Arch of Phys Med Rehabil* 2007;88:583-8.
41. Wagner AK, McElligott J, **Chan L**, Wagner EP, Segal N, Gerber NH. How Gender Impacts Career Development and Leadership in Rehabilitation Medicine: Report from the AAPM&R Research Committee. *Arch Phys Med Rehabil* 2007;88:560-8.
42. Friedly, J, **Chan, L**, Deyo, RA. Increases in Lumbosacral Injections in the Medicare Population: 1994 to 2001. *Spine* 2007;32(16):1754-60.
43. Ciol, M, Shumway-Cook, A, Hoffman, JM, Yorkston, K, Dudgeon, BJ, & **Chan, L**. Minority Disparities in Disability Among Medicare Beneficiaries. *J Am Geriatr Soc* 56:444-453, 2008.
44. **Chan, L**, Ciol, M, Shumway-Cook, A, Yorkston, KM, Dudgeon, BJ, Asch, SM, & Hoffman, JM. A Longitudinal Evaluation of Individuals with Disabilities: Does a longitudinal definition help define who receives necessary care? In press, *Arch of Phys Med Rehabil*
45. Dudgeon, B, Hoffman, JM, Ciol, M, Shumway-Cook, A, Yorkston, K, **Chan, L** Older. Managing activity difficulties at home: A survey of Medicare beneficiaries. In press, *Arch of Phys Med Rehabil*.
46. Friedly, J, **Chan, L**, Deyo, RA. Geographic Variations in Epidural Steroid Injection Use in the Medicare Population. In press, *JBJS*.

#### **Other publications in refereed journals:**

1. 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.
2. 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.
3. Scieurba F, Criner GJ, Lee SM, Mohsenifar Z, Shade D, Slivka W, Wise RA; **National Emphysema Treatment Trial Research Group**. Six-minute walk distance in chronic obstructive pulmonary disease: reproducibility and effect of walking course layout and length. *Am J Respir Crit Care Med*. 2003 Jun 1;167(11):1522-7.
4. Lee SM, Wise R, Sternberg AL, Tonascia J, Piantadosi S; **National Emphysema Treatment Trial Research Group**. Methodologic issues in terminating enrollment of a subgroup of patients in a multicenter randomized trial. *Clin Trials*. 2004;1(3):326-38.

5. Krachman SL, Chatila W, Martin UJ, Nugent T, Crocetti J, Gaughan J, Criner GJ; **National Emphysema Treatment Trial Research Group**. Effects of lung volume reduction surgery on sleep quality and nocturnal gas exchange in patients with severe emphysema. *Chest*. 2005 Nov;128(5):3221-8.
6. Ries AL, Make BJ, Lee SM, Krasna MJ, Bartels M, Crouch R, Fishman AP; **National Emphysema Treatment Trial Research Group**. The effects of pulmonary rehabilitation in the national emphysema treatment trial. *Chest*. 2005 Dec;128(6):3799-809.
7. Frontera, WR, Fuhrer, MJ, Jette, AM, **Chan, L**, Cooper, RA, Duncan, PW, Kemp, JD, Ottenbacher, KJ, Peckham, PH, Roth, EJ, Tate, DG. Rehabilitation Medicine Summit: Building Research Capacity. Concurrent publication in 16 journals, 2006: *American Journal of Physical Medicine & Rehabilitation*; *American Journal of Speech-Language Pathology*; *Archives of Physical Medicine and Rehabilitation*; *Assistive Technology*; *Disability and Rehabilitation*; *Journal of Musculoskeletal Pain*; *Journal of Neuroengineering and Rehabilitation (online)*; *Journal of Rehabilitation Research and Development*; *OTJR: Occupation, Participation and Health*; *Physical Therapy*; *The American Journal of Occupational Therapy*; *The Journal of Burn Care and Rehabilitation*; *The Journal of Head Trauma Rehabilitation*; *The Journal of Spinal Cord Medicine*; and *Topics in Stroke Rehabilitation*.
8. DeCamp MM, Blackstone EH, Naunheim KS, Krasna MJ, Wood DE, Meli YM, McKenna RJ Jr; **National Emphysema Treatment Trial Research Group**. Patient and surgical factors influencing air leak after lung volume reduction surgery: lessons learned from the National Emphysema Treatment Trial. *Ann Thorac Surg*. 2006 Jul;82(1):197-206.
9. Martinez FJ, Foster G, Curtis JL, Criner G, Weinmann G, Fishman A, DeCamp MM, Benditt J, Sciruba F, Make B, Mohsenifar Z, Diaz P, Hoffman E, Wise R; **National Emphysema Treatment Trial Research Group**. Predictors of mortality in patients with emphysema and severe airflow obstruction. *Am J Respir Crit Care Med*. 2006 Jun 15;173(12):1326-34.
10. Chatila WM, Hoffman EA, Gaughan J, Robinswood GB, Criner GJ; **National Emphysema Treatment Trial Research Group**. Advanced emphysema in African-American and white patients: do differences exist? *Chest*. 2006 Jul;130(1):108-18.
11. Naunheim KS, Wood DE, Krasna MJ, DeCamp MM Jr, Ginsburg ME, McKenna RJ Jr, Criner GJ, Hoffman EA, Sternberg AL, Deschamps C; **National Emphysema Treatment Trial Research Group**. Predictors of operative mortality and cardiopulmonary morbidity in the National Emphysema Treatment Trial. *J Thorac Cardiovasc Surg*. 2006 Jan;131(1):43-53.
12. Naunheim KS, Wood DE, Mohsenifar Z, Sternberg AL, Criner GJ, DeCamp MM, Deschamps CC, Martinez FJ, Sciruba FC, Tonascia J, Fishman AP; **National Emphysema Treatment Trial Research Group**. Long-term follow-up of patients receiving lung-volume-reduction surgery versus medical therapy for severe emphysema by the National Emphysema Treatment Trial Research Group. *Ann Thorac Surg*. 2006 Aug;82(2):431-43.
13. Stoller JK, Gildea TR, Ries AL, Meli YM, Karafa MT; **National Emphysema Treatment Trial Research Group**. Lung volume reduction surgery in patients with emphysema and alpha-1 antitrypsin deficiency. *Ann Thorac Surg*. 2007 Jan;83(1):241-51.
14. Martinez FJ, Curtis JL, Sciruba F, Mumford J, Giardino ND, Weinmann G, Kazerooni E, Murray S, Criner GJ, Sin DD, Hogg J, Ries AL, Han M, Fishman AP, Make B, Hoffman EA, Mohsenifar Z, Wise R; **National Emphysema Treatment Trial Research Group**. Sex differences in severe pulmonary emphysema. *Am J Respir Crit Care Med*. 2007 Aug 1;176(3):243-52. Epub 2007 Apr 12.

15. Criner GJ, Scharf SM, Falk JA, Gaughan JP, Sternberg AL, Patel NB, Fessler HE, Minai OA, Fishman AP; **National Emphysema Treatment Trial Research Group**. Effect of lung volume reduction surgery on resting pulmonary hemodynamics in severe emphysema. *Am J Respir Crit Care Med*. 2007 Aug 1;176(3):253-60. Epub 2007 May 11.
16. Fisher MR, Criner GJ, Fishman AP, Hassoun PM, Minai OA, Scharf SM, Fessler HE; for the **National Emphysema Treatment Trial (NETT) Research Group** Estimating pulmonary artery pressures by echocardiography in patients with emphysema. *Eur Respir J*. 2007 Jul 25; [Epub ahead of print].
17. **Chan, L**. The State of the Science: Challenges in Designing Post Acute Care Payment Policy. *Arch Phys Med Rehabil* 2007;88:1522-5.

### Textbooks:

Associate Editor, *Physical Medicine and Rehabilitation, 3<sup>rd</sup> Edition*, Editor, Randall L. Braddom, Elsevier, London 2006. Responsible for editing 10 chapters: Impairment Rating and Disability Determination, Quality Measures and Outcomes, Evidence Based Medicine in Physical Medicine and Rehabilitation, Electrodiagnostic Medicine I: Basic Principles, Electrodiagnostic Medicine II: Clinical Evaluation and Findings, Electrodiagnostic Medicine III: Case Studies Pulmonary Rehabilitation, Low Back Pain, Stroke Syndromes, Transplantation Rehabilitation.

### 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. 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*. WB Saunders, Philadelphia, PA 2002.
5. 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
6. **Chan, L**, Richardson, M, Verville, RE. "Legislative Issues in the Field of Physical Medicine and Rehabilitation." Chapter in *PM & R Secrets Third Edition* by Young, O'Young, and Stiens. Hanley Belfus, Inc., Philadelphia, PA 2006.
7. Alba, A, **Chan, L**. "Pulmonary Rehabilitation." Chapter in *Physical Medicine and Rehabilitation, 3<sup>rd</sup> Edition*, Editor, Randall L. Braddom. Elsevier, London 2006.
8. **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. In Press, Hanley Belfus, Inc., Philadelphia, PA 2007.

**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. Letter to the Editor Reply, in press, *Spine*.

**Abstracts:**

1. Zackson, H, **Chan, L**, Montague, D, Cole, R. Clinical Significance of a Reduced DLCO/VC Ratio. Abstract, *Am Rev Respir Dis*, 1987;133:A130.
2. **Chan, L**, Odderson, I, McKenna, B. Early Functional Assessment and Outcome Disposition in Patients with Acute Stroke. Abstract, *Arch of Phys Med Rehabil*, 1995;76:11.
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 Physiatrists in the Outpatient Setting in 1994. Abstract, *Arch of Phys Med Rehabil*, 1997:78-9.
5. **Chan, L**, Koepsell, T, Deyo, R, Esselman, P, Haselkorn, J, Lowery, J, Stolov, W. Medicare's Reimbursement System Associated with Extra Costs. *Am J Manag Care*, 1998;4:2.
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.
8. Stiens, S, Haselkorn, J, **Chan, L**, Scott, C, Bloedel, S. A Standardized Patient with Shoulder Pain and Paraplegia Evaluates and Teaches Medical Students on a Physical Medicine and Rehabilitation Clerkship. *Arch Phys Med Rehabil*, 1998;79:1338.

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.
10. Snowden M, **Chan L**, Piacitelli J, Rosenblatt R. Roy-Byrne P. Psychiatric Services to Medicare Recipients in Nursing Homes from Preadmission Screening and Annual Resident Review. Abstract, *American Journal of Geriatric Psychiatry*, 2001; 9(3)suppl: 46.
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.

24. Jarvik JG, Chu D, Comstock BA, Shibata DK, **Chan L**, Heagerty PJ, Kliot M, Carrino J, Haynor DR, Shewchuk J, Turner JA, Maravilla KR. MR Imaging of the Median Nerve in Subjects with Mild to Moderate Carpal Tunnel Syndrome: Comparison with Symptoms and Electrodiagnostic Studies. Association of University Radiologists 54th Annual Meeting, Austin, TX, April, 2006.
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.
26. Shumway-Cook, A, Ciol, M, Hoffman, JM, Dudgeon, B, Yorkston, K, **Chan, L**. Falls in the Medicare Population: Prevalence and Provider Response. Presented at the American Congress of Rehabilitation Medicine, Boston, MA, September 27<sup>th</sup>, 2006.
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. Accepted, Association of Academic Physiatrists annual meeting, 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 AcademyHealth 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. Accepted, 1<sup>st</sup> Asian Oceania Conference of Physical and Rehabilitation Medicine, Nanjing, China.

**NATIONAL INVITATIONAL LECTURES:**

- |               |   |
|---------------|---|
| 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, Health Care Financing Administration, Washington, D.C.
- May 1997 “Pulmonary Rehabilitation and Lung Volume Reduction Surgery.” Northwest Association of Cardiovascular and Pulmonary Rehabilitation, Leavenworth, WA
- Sept. 1997 “Medicare’s Payment System and Rehab Hospitals: Recent Changes” Northwest Association of Physical Medicine and Rehabilitation Annual Conference, Portland, Oregon
- June 1998 “Status Report, Lung Volume Reduction Surgery.” Tri-regional Medical Directors Conference, Seattle, WA
- February 1999 “The Use of Large Medicare Data Bases in Rehabilitation Outcomes Studies.” AAP Annual Meeting, Orlando Florida
- November 2002 “Study Designs Commonly Used in Rehabilitation Research.” Association of Academic Physiatrists Annual Meeting, Orlando, FL.
- September 2004 Using large datasets in Rehabilitation Research. Kaiser of Northern California 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.
- 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

**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 Psychiatrists annual meeting, San Juan, Puerto Rico.

**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 Psychiatrists 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