

Daniel C. Cherkin, Ph.D.

Curriculum Vitae

December 20, 2013

PRESENT POSITIONS

Senior Scientific Investigator
Group Health Research Institute*
Group Health Cooperative
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Affiliate Professor
Departments of Family Medicine and Health Services
University of Washington

PROFESSIONAL INTERESTS

I am interested in how a health care delivery system can creatively organize and deliver services that most effectively and efficiently promote patient-centered care that is “healing”. I am also interested in determining which alternative and complementary approaches to healing should be integrated into mainstream healthcare.

EDUCATION

1971 B.A., Statistics, University of California, Berkeley
1974 M.S., Biomathematics, University of Washington, Seattle
1978 Ph.D., Epidemiology, University of Washington, Seattle

FACULTY POSITIONS

1974-77 Research Associate, Department of Health Services, School of Public Health, University of Washington, Seattle

1979-81 Research Associate, Department of Family Medicine, School of Medicine, University of Washington, Seattle

1981-87 Research Assistant Professor, Department of Family Medicine, School of Medicine, University of Washington, Seattle

1981 Instructor, John Bastyr College of Naturopathic Medicine (Epidemiology), Seattle, Washington

1985-93 Associate Scientific Investigator, Center for Health Studies, Group Health Cooperative of Puget Sound, Seattle, Washington

1987-1996 Research Associate Professor, Department of Family Medicine, School of Medicine, University of Washington, Seattle

1988-1996 Adjunct Research Associate Professor, Department of Health Services, School of Public Health, University of Washington, Seattle

*Name changed from Group Health Center for Health Studies to Group Health Research Institute on September 8, 2009

- 1993-2009 Senior Scientific Investigator, Center for Health Studies, Group Health Cooperative, Seattle, Washington
- 1996-1997 Affiliate Associate Professor, Departments of Family Medicine and Health Services, University of Washington, Seattle
- 1997-Pres. Affiliate Professor, Departments of Family Medicine and Health Services, University of Washington, Seattle
- 2009-Pres. Senior Scientific Investigator, Group Health Research Institute*, Group Health Cooperative, Seattle, Washington
- 2010 Visiting Professor, Health and Rehabilitation Sciences Research Institute, School of Health Sciences, University of Ulster, Belfast, U.K.
- 2012-2013 Director, Bastyr University Research Institute, Kenmore, WA
- 2013-Pres. Senior Research Scientist, Bastyr University Research Institute, Kenmore, WA

PREDOCTORAL RESEARCH AND PROFESSIONAL EXPERIENCE

- 1967-70 Biostatistician (volunteer), Veterans Administration Hospital, Sepulveda, California (Summers)
- 1969-70 Statistical Clerk, Institute of Human Learning (National Science Foundation), University of California, Berkeley
- 1970-71 Reader, Department of Statistics, University of California, Berkeley
- 1971 Statistician, National Science Foundation Student-Originated Studies Project, (Summer) University of California, Berkeley
- 1971-74 Teaching Assistant, Department of Biostatistics, University of Washington, Seattle
- 1973 Consulting Biostatistician and Demographer, Institute of Nutrition of Central (Summer) America and Panama (Pan American Health Organization), Guatemala City, Guatemala
- 1978 (fall) Predoctoral Researcher, Department of Family Medicine, Research Section, School of Medicine, University of Washington, Seattle

HONORS AND AWARDS

- 1971 University of California, Berkeley, Departmental Citation in Recognition of Outstanding Undergraduate Accomplishment in Statistics
- 1971-74 National Institute of General Medical Sciences, Traineeship, University of Washington, Seattle
- 1974 United States Public Health Service, Traineeship, University of Washington, Seattle
- 1997 Fellow, Association for Health Services Research
- 1999 The McKenzie Institute International 1999 "Extension Award" for Research on Low Back Pain published in 1998.
- 2001 The International Scientific Conference on Complementary, Alternative and Integrative Medicine Research "Osher Award" for most outstanding oral presentation in clinical science.

- 2009 Ashley Montagu award for 2008-2009 in recognition of “demonstrated exceptional devotion to the advancement of touch in the world” presented by the Canadian Touch Research Center, August 31, 2009.
- 2009 Nomination for Group Health Institute Faculty Mentoring award, November, 2009.
- 2011 Prevention Magazine’s Integrative Medicine Award for 2011 in recognition of important work “studying how massage therapy can relieve back pain.”
(<http://www.prevention.com/health/natural-remedies/natural-cures-preventions-integrative-medicine-awards-2011?page=3>)

GROUP HEALTH COMMITTEES

- 1982-84 Health Promotion and Evaluation Committee
- 1984-85 Health Promotion Advisory Committee
- 1986-89 Medical Staff Committee on Prevention
- 1988-90 Chiropractor Oversight Committee/Chiropractic Workgroup
- 1990-92 Committee on Practice Efficacy Task Force on Low Back Pain
- 1992-93 Benefit Architecture Design Committee
- 1994 Alternative Medicine/Alternative Provider Task Force
- 1998 The Group Health/Kaiser Permanente Community Foundation North Region Endowment Campaign Committee
- 1999-00 Complementary and Alternative Medicine Planning Committee
- 2000 Chronic Pain Evidence Subgroup of GHC Chronic Pain Service Team
- 2003-04 Diversity Council
- 2005-07 Research and Quality Liaison Committee
- 2008 Art Committee
- 2011-13 Back Pain Guidelines Development Team
- 2011 Member, Schwartz Center for Compassionate Healthcare Rounds Oversight Committee
- 2011 Member, GHP Wellness Conference (scheduled for November 8-9, Alderbrook, Washington)

GROUP HEALTH PRESENTATIONS/SERVICE

“Patient-Centered Care.” Co-presented with Leah Tuzzio to the Group Health Clinical Support and Business Development (aka “APPLE”) Leadership Team. October 22, 2010, Seattle. (Invited)

“Patient-Centered Care.” Co-presented with Leah Tuzzio and Sarah Greene to the Group Health Group Practice Fall Forum. November 12, 2010, Lynwood, WA. (Invited)

Participant in “GHC Population Analysis Project—Low Back Pain” (Value Proposition Exercise). July-August 2010.

GROUP HEALTH RESEARCH INSTITUTE RESPONSIBILITIES

1989	Chair, Search Committee for Biostatistician
1989-91	Chair, Library Advisory Committee
1989-91	Member, Management Team
1992-93	Chair, 1993 Investigator Retreat Planning Committee
1994	Member, Search Committee for Manager of Research Operations
1995	Member, Search Committee for Associate Director
1995-97	Member, Management Team
1996	Member, 1996 Investigator Retreat Planning Committee
1996-97	Member, Search Committee for Manager of Business and Research Administration
1997	Chair, Committee to Restructure Investigator Meetings
1997	Member, Committee to Recommend “Nuts and Bolts” of New Scientific Policy Committee
1997	Member, Search Committee for Center Director
1998-99	Chair, 1999 Investigator Retreat Planning Committee
1998-00	Coordinator, Center’s Seminar Series
1999-00	Associate Director for Research
2000-02	Acting Director
2002-08	Associate Director for Research
2008	Chair, Fellowship Search Committee
2009	Chair, 2 Committees Evaluating Candidates for Investigator positions
2009-12	Coordinator, Patient-Centered Care Interest Group

SPECIAL LOCAL RESPONSIBILITIES

1983-90	Member, Washington Academy of Family Physicians’ Family Practice Research Network
1990-91	Member, Advisory Group on State Health Data, Health Information Division, Washington State Department of Health
2006	Member, Puget Sound Health Alliance Back Pain Clinical Improvement Team

SPECIAL NATIONAL AND INTERNATIONAL RESPONSIBILITIES

1979	Invited workshop participant on “The Denominator Problem in Family Medicine - Its Definition and Estimation,” Rockefeller Foundation, New York, September 17-18
1983-85	Program Planning Committee Chairman - North American Primary Care Research Group Meeting, Seattle, Washington, April 1985
1984-85	Scientific Review Committee Chairman - North American Primary Care Research Group Meeting, Seattle, Washington, April 1985

- 1988 Invited participant in “Advances in the Epidemiology of Pain -- Implications for NCHS Data Systems,” sponsored by National Center for Health Statistics, San Diego, California, February 23-26
- 1988 Invited representative of University of Washington Department of Family Medicine at Fifth Annual Convocation of Practices of the Ambulatory Sentinel Practice Network, Denver, Colorado, September 15-17
- 1990-93 Grant reviewer for Agency for Health Care Policy and Research, Health Services Research Study Section
- 1993-99 Occasional field reviewer of grant proposals submitted to the Agency for Health Care Policy and Research
- 1994-95 Founder and Planning Committee Chairman for International Forum for Primary Care Research on Low Back Pain, Seattle, Washington, October 13-14, 1995
- 1994-98 Member, Advisory Committee for Bastyr University Center for Complementary and Alternative Medicine Research in AIDS
- 1995 Member, Special Emphasis Panel - PORT II study section reviewing grants for Agency for Health Care Policy and Research
- 1996 Invited participant in workshop to establish research agenda for chiropractic research sponsored by The Foundation for Chiropractic Education and Research, Bournemouth, England, October 20, 1996
- 1996-98 Member, Planning Committee (Faculty) for the Institute for Healthcare Improvement’s Breakthrough Series on Low Back Pain
- 1996-97 Member, Planning Committee for the Second International Forum for Primary Care Research on Low Back Pain, The Hague, The Netherlands, May 30-31, 1997
- 1997 Invited participant - “Outcomes and Effectiveness Research for Musculoskeletal Conditions: Accomplishments and Future Directions,” Sponsored by the U.S. Agency for Health Care Policy and Research, Washington, D.C., March 3, 1997
- 1997 Invited presenter at National Institutes of Health Consensus Development Conference on Acupuncture, Bethesda, Maryland, November 3-5, 1997
- 1997-98 Member, Planning Committee for the Third International Forum for Primary Care Research on Low Back Pain, Manchester, England, October 2-3, 1998
- 1998-99 Member, Advisory Committee for Consortial Center for Chiropractic Research, Dr. William Meeker, P.I.
- 1998-00 Member, National Advisory Committee for Center for Holistic Pediatric Education and Research, Children’s Hospital, Boston, Massachusetts, Dr. Kathi Kemper, MD, MPH, Director
- 1998-00 Member, Planning Committee for Fourth International Forum for Primary Care Research on Low Back Pain, Eilat, Israel, March 15-18, 2000
- 2000-02 Member, Advisory Committee for Oregon Center for Complementary and Alternative Medicine (OCCAM)

- 2000-04 Member, National Advisory Committee for the Robert Wood Johnson Foundation on Improving Chronic Illness Care (ICIC) Program
- 2000-02 Chair, International Organizer Committee for Fifth International Forum for Primary Care Research on Low Back Pain, Montreal, Quebec, Canada
- 2002-05 Member, CAM Theme Committee, University of Washington CAM Curriculum Grant, Dr. Ron Schneeweiss, P. I.
- 2002-04 Member, Scientific Advisory Board of the Canadian Touch Research Institute.
- 2002-03 Chair, International Organizing Committee for Sixth International Forum for Primary Care Research on Low Back Pain, Linkoping, Sweden
- 2002-04 Member, North American Naturopathic Medical Research Consortium Work Group
- 2002 Member, Scientific Advisory Committee, Osher Center for Integrative Medicine, University of California, San Francisco, California
- 2003 Member, Special Emphasis Panel for Review of applications submitted in response to Program Announcement on Developmental Centers for Research on CAM, July 22-23, 2003
- 2003 Reviewer for Programme Grant Application to the Arthritis Research Campaign
- 2003-04 Chair, International Organizing Committee for the Seventh International Forum for Primary Care Research on Low Back Pain, Edmonton, Alberta, Canada
- 2004 Invited participant in Second American Samueli Symposium, "Toward Healing Environments in Health Care," January 22-24, 2004, Newport Beach, California
- 2004 Chair, Executive Advisory Committee for the NESA-Harvard Acupuncture Research Collaborative (Developmental Center for Research in Complementary Medicine grant from NCCAM)
- 2004 Co-chair of Working Group on Manipulative and Body-Based Practices. National Center for Complementary and Alternative Medicine Strategic Planning Workshop, May 23-25, Hunt Valley, Maryland.
- 2004-06 Chair, International Organizing Committee, Eighth International Forum for Primary Care Research on Low Back Pain Conference in Amsterdam, The Netherlands, June 8-10, 2006.
- 2005-07 Member, American Pain Society-American College of Physicians Low Back Pain Clinical Guidelines Project Panel.
- 2005-07 Chair, International Organizing Committee, Ninth International Forum for Primary Care Research on Low Back Pain Conference in Palma de Mallorca, Spain, October 4-6, 2007.
- 2007-09 Chair, Program Committee for North American Research Conference on Complementary and Integrative Medicine, May 12-15, 2009, Minneapolis.
- 2007-09 Member, Organizing Committee for North American Research Conference on Complementary and Integrative Medicine to be held May 12-15, 2009 in Minneapolis.
- 2008 Reviewer and Site Visitor for the Arthritis Research Council's funding of a new Centre in Primary Care Musculoskeletal Science. Visited University of Warwick and Keele University, England. January 15-17, 2008.
- 2008 Moderator, "The Science of CAIM: What's Next for Complementary, Alternative and Integrative Medical Research?" - Colloquium sponsored by the UCLA Office of the Vice

- Chancellor for Research and the UCLA Center for East-West Medicine. Los Angeles. January 28, 2008.
- 2008 Presenter at NCCAM (NIH) Grantsmanship Workshop, “Hints from Seasoned Researchers.” June 4, 2008, Rockville, MD.
- 2008-10 Content Expert for University of Ottawa Evidenced-based Practice Center review of “Complementary and Alternative Therapies for Back Pain (Part II)”. Funded by grants from AHRQ and NIH.
- 2008-09 Chair, International Organizing Committee. Tenth International Forum for Primary Care Research on Low Back Pain, Jul 14-17, 2009, Boston.
- 2009 Member of steering committee and session chair for NIH Workshop on Non-pharmacologic management of chronic back pain. May 27, 2009, Bethesda, MD.
- 2009 Reviewer of grant application submitted to the Arthritis Research Council, August 10, 2009.
- 2009 Invited participant in Harvard Medical School Osher Research Center conference on Designing Studies Addressing Issues of Efficacy and Economic Evaluation Sufficient to Garner 3rd Party Coverage for Low Back Pain. September 30, 2009, Boston.
- 2009 Invited participant in Complementary and Integrative Medicine Stakeholder Symposium. Sponsored by the Center for Medical Technology Policy and the Institute for Integrative Health. Baltimore, MD, November 9, 2009.
- 2009-11 Member, Data Safety Monitoring Board for “Dose-Response Efficacy of Manipulation for Chronic LBP” (U01 AT001908), Mitchell Haas, Principal Investigator.
- 2009-11 Chair, International Organizing Committee, Eleventh International Forum for Primary Care Research on Low Back Pain Conference in Melbourne, Australia, March 15-18, 2011.
- 2010 Invited Participant and Session Chair, “Workshop on Deconstructing Back Pain.” Sponsored by National Institute of Complementary and Alternative Medicine (NIH). May 10-11, 2010, Rockville, Maryland.
- 2010-11 Member, Program Committee for the International Research Congress on Integrative Medicine and Health. To be held May 15-18, 2012 Portland, Oregon.
- 2010-11 Invited Member, Expert Panel to review comparative effectiveness and cost-effectiveness of treatment options for chronic low back pain. Institute for Clinical and Economic Review, Boston.
- 2011 Invited Member, Expert Panel to review state-of-science in economic analyses of complementary, alternative, and integrative medicine. January 26-27, 2011, RAND, Santa Monica, California.
- 2011 Invited Participant in “Acupuncture for the Treatment of Acute Pain Workshop.” Co-sponsored by Department of Defense and National Institutes of Health. February 2-3, 2011, Bethesda, Maryland.
- 2011-14 Member, National Advisory Council for the National Center for Complementary and Alternative Medicine (NIH). Bethesda, Maryland.
- 2011 Invited Participant, Interdisciplinary Consensus Workshop to Develop Effectiveness Guidance Document for Acupuncture Research. Santa Fe, New Mexico, July 24, 2011

- 2011-16 Advisory Board Member, Back Pain Outcomes using Longitudinal Data (BOLD) Choice. Research program funded by the Agency for Healthcare Policy and Research. July 15, 2011, Seattle, Washington.
- 2012 Member, Search Committee for the Deputy Director of the National Center for Complementary and Alternative Medicine
- 2012 Participant, Treatment Options for Back Pain Workgroup, Patient-Centered Outcomes Research Institute, Washington, DC.
- 2012 Participant, Methodology Workshop for Prioritizing Specific Research, Patient-Centered Outcomes Research Institute, Washington, DC.
- 2012 Member, Advisory Panel on Improving Healthcare Systems, Patient-Centered Outcomes Research Institute, Washington, DC.

MASTERS AND DOCTORAL COMMITTEES

- 1990-92 Chair, Master's Thesis Committee, Susan Huppler, RPT, Extended MPH Degree Program, Department of Health Services, University of Washington, "Physical Therapists' Perceived Effectiveness in Treating Patients with Low Back Pain: A Comparison Between Physical Therapists Using the McKenzie Approach and Physical Therapists Not Using the McKenzie Approach"
- 1991-92 Chair, Master's Thesis Committee, Darrell Lovins, DO, Extended MPH Degree Program, Department of Health Services, University of Washington, "Back Pain in Aviators: A Descriptive Study of the Type of Care Sought and the Implications For Flight Status"
- 1992-93 Member, Master's Thesis Committee, Lori Nordgulen, MPH Degree Program, Department of Health Services, University of Washington, "An Analysis of the Effects of Washington State Department of Labor and Industries' Hospital Bill Audit Program on the Rate of Hospitalization for Low Back Pain"
- 1992-93 Project Advisor, Master's of Public Health Project Committee, Rick Bocko, RPT, Extended MPH Degree Program, Department of Health Services, University of Washington, "Description of Content of Physical Therapy Practice at Group Health Cooperative's Eastside Occupational Health Service"
- 1994-95 Member, Doctoral Dissertation Committee, Kathleen Hummel-Berry, Department of Epidemiology, University of Washington, "A Randomized Clinical Trial of a Home Program Monitored by a Physical Therapist versus Repeated Outpatient Physical Therapy Visits Combined with Home Program to Treat Frozen Shoulder"
- 1995-96 Chair, Master's Thesis Committee, Mary Wyman, MD, Extended MPH Degree Program, Department of Health Services, University of Washington, "Characteristics of Family Practice in a U.S. Army Family Practice Residency Clinic"
- 1995-96 Member, Doctoral Assessment Committee, MW van Tulder, "Diagnosis and Treatment of Low Back Pain in Primary Care," Amsterdam, Holland
- 1997-98 Chair, Master's Thesis Committee, Christine Winters, MPH Degree Program, Department of Health Services, University of Washington, "Characteristics of People Seeking Alternative Health Care"
- 1998-99 Advisor/Mentor, Master's Thesis, Donna Kalauokalani, MD, Robert Wood Johnson Clinical Scholars Program, MPH Degree Program, Department of Health Services, University of

- Washington, “The Influences of Patient Expectations on Functional Outcomes in Patients Randomized to Alternative Treatments for Chronic Low Back Pain”
- 2001-03 Chair, Master’s Thesis Committee, Carson Odegard, DC, MPH Degree Program, Department of Health Services, University of Washington, “Do Health Services used by Chiropractors Vary by Insurance Coverage or Involvement of Medical Doctors in Patient's Care?”
- 2001-03 Member, Thesis Committee, Jennifer Brennan, “The Role of Licensed Complementary and Alternative Medicine Providers in Women’s Health,” Department of Epidemiology, School of Public Health and Community Medicine, University of Washington.
- 2009 Advisor/Mentor, Master’s Thesis, Juliane K. Strassel, MSc, Department of Integrated Care, University of Maastricht, the Netherlands. Thesis title: A systematic review of the evidence for the effectiveness of dance therapy.”
- 2009 External Examiner, Ruth Hunter, candidate for degree of Doctor of Philosophy, University of Ulster. Thesis title: “An Investigation of the Hypoalgesic Efficacy and Effectiveness of Acupuncture.” Oral Examination in Belfast, Northern Ireland, October 23, 2009.
- 2009 External Thesis Examiner, Jo Smith, candidate for Doctor of Philosophy, University of Otago, New Zealand. Thesis title: “Massage therapy services for health needs: drivers, utilization, culture of care, and practice patterns of massage therapy in New Zealand.” December , 2009.
- 2011- Advisor on PhD Supervisory Team for Lesley Ward, doctoral student, University of Otago, Dunedin, New Zealand.
- 2012 External Thesis Examiner, Majid Artus, candidate for degree of Doctor of Philosophy, Keele University. Thesis title: “The association between non-specific factors and response to primary care treatments for low back pain: a synthesis of evidence.” Oral Examination in Keele, January 16, 2012.

OTHER TEACHING

- 1997 Lecture on “Efficacy of Alternative Medicine” in Dr. James Whorton’s “Alternative Approaches to Health” course (MHE 501), University of Washington, November 21, 1997
- 1997-98 Supervised Independent Study (HSERV 600) for two University of Washington students pursuing a Master’s degree in Public Health: Jennifer Hrachovec, RPh, who studied the pharmacological and clinical properties of an herbal medication (echinacea) and Christine Winters, who developed a questionnaire to study patients who seek care from naturopathic physicians.

RESEARCH GRANTS

- 1982-83 Principal Investigator on a research grant from Family Health Foundation of America which studied methods for estimating size of population served by a primary care physician practice (\$9,947).

- 1983-84 Co-Principal Investigator on a research grant from Family Health Foundation of America which compared the practices of recent graduates of general internal medicine and family medicine residency programs (\$58,970).
- 1985-86 Principal Investigator on a research grant from Robert Wood Johnson Foundation which compared physician and patient perspectives on primary care physician's health care role (\$40,435).
- 1985-86 Principal Investigator on a research grant from the Foundation for Group Health Cooperative of Puget Sound which compared provider and patient perspectives on the management of low back pain (\$11,500).
- 1986-88 Principal Investigator on a research grant from the National Center for Health Services Research which studied the impact of the introduction of copayments on the use of preventive care services in a health maintenance organization (\$49,567).
- 1988-89 Principal Investigator on a research grant from the Foundation for Group Health Cooperative of Puget Sound allocated to improve primary care for low back pain (\$12,802).
- 1989-93 Co-Investigator on a research grant from National Center for Health Services Research which studied whether pain management methods are associated with increased risks of dysfunctional chronic pain in patients (Michael Von Korff, Principal Investigator: \$590,541).
- 1989-94 Co-Principal Investigator on a research grant from National Center for Health Services Research which evaluated the effectiveness of care for patients with low back pain (Richard A. Deyo, Principal Investigator: \$4,638,261).
- 1991-94 Co-Investigator on a research grant from the Agency for Health Care Policy and Research which conducted a randomized trial of the shared decision-making procedure for patients with benign prostatic hypertrophy (Michael Barry, Principal Investigator: \$1,036,593).
- 1992-95 Principal Investigator on a grant from The Group Health Foundation which determined if the spinal manipulation of candidates for lumbar surgery prevented the need for surgery (\$14,650).
- 1993-97 Principal Investigator on a grant from the Agency for Health Care Policy and Research which conducted a randomized trial that compared chiropractic manipulation with the McKenzie method of physical therapy for low back pain (\$979,751).
- 1994-97 Principal Investigator on a grant from the Agency for Health Care Policy and Research which compared the content of chiropractic and medical education and studied the extent to which health insurance covers chiropractic services (\$119,229).
- 1994-98 Co-Investigator on a grant from the Agency for Health Care Policy and Research which compared long-term functional and work-related outcomes of alternative surgical and nonsurgical treatments, and assessed the impact of back pain guidelines and health care reform efforts on regional and national trends in back surgery, reoperation, fusion, and nonsurgical hospitalization rates (Richard A. Deyo, Principal Investigator: \$1,704,919).
- 1994-98 Co-Principal Investigator on a grant from the Agency for Health Care Policy and Research which conducted a randomized trial that evaluated an innovative educational videodisc program on patients' decisions about back surgery (Richard A. Deyo, Principal Investigator: \$1,104,171).
- 1995 Principal Investigator on grants from the Group Health Foundation (\$12,170), the Prudential Center for Health Care Research (\$12,000), and Wyeth-Ayerst Laboratories (\$5,000) which

- organized an international primary care research conference in Seattle on low back pain on October 13-14, 1995.
- 1995-96 Principal Investigator on a grant from the Prudential Center for Health Care Research which identified ways of improving care for persons with chronic or recurrent low back pain (\$14,338).
- 1995-97 Principal Investigator on a grant from the Agency for Health Care Policy and Research which documented and summarized information concerning the current and future role of chiropractors in the U.S. health care system (\$76,721).
- 1995-97 Co-Investigator on a grant from the Boeing Foundation which developed and evaluated self-management programs for persons with chronic or recurrent back pain (James Moore, PhD and Michael Von Korff, ScD, Co-Principal Investigators: \$200,000).
- 1995-97 Principal Investigator on a grant from The Group Health Foundation which evaluated self-management strategies for improving outcomes for persons with chronic and recurrent low back pain (\$15,358).
- 1995-96 Principal Investigator on a grant from Wyeth-Ayerst Laboratories which analyzed data on the use of medications by persons with low back pain (\$19,918).
- 1996 Co-Principal Investigator on a grant from Allergan which determined the utilization of health care services by persons with chronic and acute low back pain (\$19,382).
- 1996-99 Principal Investigator on grants from The Group Health Foundation (\$93,104), Group Health Cooperative of Puget Sound (\$100,000), the Agency for Health Care Policy and Research (\$63,969) and the Harvard Center for Alternative Medicine Research (\$10,000) which conducted a randomized trial that compared acupuncture, massage therapy, and self-care educational materials for persons with chronic low back pain.
- 1996-99 Co-Investigator on a grant from the National Institute of Dental Research which developed and evaluated provider-based interventions to reduce the occurrences of chronic pain (Linda LaReche, PhD, Principal Investigator: \$140,433).
- 1996-99 Co-Investigator on a pilot randomized trial which compared usual care with the choices of acupuncture, chiropractic care, or massage for persons with acute low back pain. The study was funded by the Foundation for Chiropractic Education and Research, The American Massage Therapy Association, The Friends of Beth Israel Hospital, and the National Institute of Health (NIH) Office of Alternative Medicine (David Eisenberg, MD, Principal Investigator: \$338,259).
- 1997-99 Principal Investigator on grants from the Agency for Health Care Policy and Research and the Group Health Foundation which conducted a survey of the practices of acupuncturists, massage therapists, and naturopathic physicians in the state of Washington (\$200,000).
- 1998-99 Co-Investigator on a supplemental NIH grant for the Center to Assess Alternative Therapy for Chronic Illness. This study extended a previous study which described the practices of acupuncturists, massage therapists and naturopathic physicians in the state of Washington. An additional survey of these same professions from a northeastern state was included as well as a survey of chiropractors from one western and one northeastern state (D. Eisenberg, MD, Principal Investigator; \$466,114).
- 1998-02 Principal Investigator on AHCPR/NIH-funded project which evaluated the efficacy of acupuncture for persons with low back pain. This study developed and evaluated methods for improving the scientific quality of randomized trials, evaluated the efficacy of acupuncture,

and used this information to design and pilot-test a randomized clinical trial to determine the efficacy of acupuncture for persons with chronic low back pain (\$1,002,772).

- 1999-02 Co-Investigator on a NIH-funded randomized trial which compared the outcomes of treatment for persons with acute low back pain under two benefit packages: “usual care” and “expanded care,” which included a choice of usual care or treatment by one of three types of alternative care: chiropractic care, acupuncture, or massage. (D. Eisenberg, MD, Principal Investigator: Group Health Subcontract, \$60,792).
- 1999-02 Principal Investigator on AHCPR/NIH-funded Minority Supplement for the evaluation of the efficacy of acupuncture for persons with back pain. This supplement permitted Dr. Donna Kalauokalani to extend the concurrent study of the use of Traditional Chinese Medical Acupuncture for chronic low back pain performed by licensed acupuncturists, and included an examination of acupuncture performed by medical doctors (\$196,138).
- 1999-02 Principal Investigator on a NIH-funded study of relaxation-related CAM therapies for persons with chronic back pain. This study laid the groundwork for a scientifically rigorous full-scale trial that evaluated the relative effectiveness and costs of three promising relaxation-related techniques: massage, tai chi, and meditation, appropriate for both older and younger adults with chronic low back pain (\$608,334).
- 2000-03 Co-investigator on a NIH-funded study of physical CAM therapies for the treatment of chronic low back pain. This study laid the groundwork for a scientifically rigorous full-scale trial that evaluated the relative effectiveness and costs of the three most commonly used physical CAM therapies: chiropractic care, acupuncture, and massage for both older and younger adults with chronic low back pain (D. Eisenberg, MD, Principal Investigator: Group Health subcontract, \$75,927).
- 2001-04 Co-investigator on a NCCAM-funded study of insurance financing of integrated medicine. This study measured the extent to which legislation requires coverage of every category of healthcare provider, and has increased the integration of CAM into conventional health care (W. Lafferty, Principal Investigator: Group Health subcontract, \$245,000).
- 2002-04 Co-Investigator on a NCCAM-funded study which laid the groundwork for a full-scale trial that compared yoga with conventional exercise and usual care for persons with chronic low back pain (Karen Sherman, Principal Investigator: \$380,000).
- 2003-09 Principal Investigator on a NCCAM-funded, multi-site, randomized controlled trial which will clarify the extent to which acupuncture needling can diminish the effect of chronic low back pain on patient functioning and symptoms. The results of this study will provide the clearest evidence to date about the value of acupuncture needling as a treatment for chronic low back pain (\$4,388,023).
- 2003-05 Co-Investigator on NCCAM-funded pilot study evaluating therapeutic massage for chronic neck pain. (Karen Sherman, Principal Investigator, \$395,000)
- 2005-08 Principal Investigator on project to develop, implement and evaluate a primary care intervention designed to optimize provider, patient and system outcomes. Funded by the Samueli Institute and the Group Health Development Fund (\$915,633).
- 2005-10 Principal Investigator on NCCAM-funded randomized controlled trial to evaluate the effectiveness of relaxation and focused structural massage for chronic low back pain (\$2,100,000).

- 2006-09 Co-Investigator, “Therapeutic Massage for Generalized Anxiety Disorder,” Karen Sherman, Principal Investigator: NCCAM (\$640,000).
- 2006-10 Co-Investigator, “Effect of Yoga Versus Stretching on Chronic Back Pain,” Karen Sherman, Principal Investigator: NCCAM (\$1,872,622).
- 2008 Principal Investigator, “Exploration of New Options for Promoting Healing in Primary Care.” Group Health Development Fund (\$55,000).
- 2008-11 Principal Investigator “Outcomes of Community Naturopathic Care for Type 2 Diabetes.” NCCAM/NIH (\$400,000).
- 2009-13 Co-Investigator, “Dosing Study of Massage for Neck Pain,” Karen Sherman, Principal Investigator: NCCAM (\$2,446,412.00).
- 2009-11 Co-Investigator, “Outcomes, Cost-effectiveness and the Decision Making Process to Use Complementary and Alternative Medicine.” William Lafferty, Principal Investigator: NCCAM
- 2009-13 Co-Investigator, “Measuring Patient Expectations for CAM Therapies.” Karen Sherman, Principal Investigator: NCCAM (\$2,130,537).
- 2010 Principal Investigator, Laying the Foundation for establishing a Research Program at Group Health on Patient-centered Care. GHRI Development Fund (\$50,000).
- 2010-11 Principal Investigator, “Outcomes of Community Naturopathic Care for Type 2 Diabetes.” NCCAM/NIH (\$100,000). Supplement.
- 2011-15 Principal Investigator, “Comparison of CAM and Conventional Mind-Body Therapies for Chronic Back Pain.” NCCAM/NIH (\$3.06 million)
- 2012-13 Co-Investigator and Group Health Site P.I., “A Pragmatic Trial of Lumbar Image Reporting with Epidemiology (LIRE).” Jeffery Jarvik (U. Washington), Principal Investigator. NIH. (\$96,000). (UH2 Planning Grant)
- 2012-14 Principal Investigator, “Implementing Evidence-Based Treatments for Persistent Back Pain into Primary Care.” NCCAM/NIH (\$440,000).
- 2013-16 Principal Investigator, “Evaluation of a Patient-Centered Risk Stratification Method for Improving Primary Care for Back Pain”. Patient-Centered Outcomes Research Institute (\$1.9 million). This project will evaluate the implementation of a tool developed and found effective and cost efficient in England for tailoring treatment type and intensity to the individual needs of patients with back pain.
- 2014-18 Co-Investigator and Group Health Site P.I., “A Pragmatic Trial of Lumbar Image Reporting with Epidemiology (LIRE).” Jeffery Jarvik (U. Washington), Principal Investigator. NIH. (\$96,000). (UH3 Project Grant)

PUBLICATIONS

Peer Reviewed Journal Articles

1. Cherkin DC and Lawrence DM. An evaluation of the American Medical Association’s physician masterfile as a data source: One state’s experience. Med Care 1977;15(9):767-79.

2. Erickson S, Bergman J, Schneeweiss R, and Cherkin DC. The use of drugs for unlabeled indications. JAMA 1980;243(15):1543-6.
3. Geyman JP, Cherkin DC, Deisher JB, and Gordon MJ. Graduate follow-up in the University of Washington family practice residency network. J Fam Pract 1980;11(5):743-52.
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Monographs

1. Chiropractic in the United States: Training, Practice and Research. Daniel C. Cherkin and Robert Mootz, editors. Agency for Health Care Policy and Research Pub. No. 98-N002, December, 1997, 130pp.

Book Chapters, Discussion Papers, and Conference Proceedings

1. Cherkin, DC. Chapter 7: Designs, Protocols and Procedures. In Practice-Based Research in Family Medicine. Berg AO, Gordon MJ, and Cherkin DC (eds.) American Academy of Family Physicians, Kansas City, 1986.
2. Cherkin DC. Chapter 10: Data Collection, Management, and Analysis. In Practice-Based Research in Family Medicine. Berg AO, Gordon MJ, and Cherkin DC (eds.) American Academy of Family Physicians, Kansas City, 1986.
3. Cherkin DC and Von Korff M. An Evaluation of the Adequacy of the National Center for Health Statistics Data for Studies of the Use of Health Services for Chronic Pain Problems. National Center for Health Statistics, 1988.
4. Wagner EH and Cherkin DC. Effectiveness Management and Research: The Scientific Contribution of Health Maintenance Organizations. In Primary Care Research: Theory and Methods. AHCPR Conference Proceedings, USDHHS, PHS, pp. 295-303, September 1991.
5. Cherkin DC. Effective Treatment of Low Back Pain: Evidence from the Patient Outcome Research Team. In Review, Regulate, or Reform? What Works to Control Workers' Compensation Medical Costs? Grannemann TW, ed., Workers Compensation Research Institute (Pub. No. WC-94-5), pp. 207-222, September 1994.
6. Cherkin DC. Measuring Health Care Quality: Low Back Pain and Associated Treatment Options. U.S. Agency for Health Care Policy and Research Pub. No. 96-N024, Rockville, MD, August 1996.
7. Cherkin DC and Mootz RD. Foreward. In Chiropractic in the United States: Training, Practice, and Research. Agency for Health Care Policy & Research Pub. No. 98-N002, December, 1997, pp. 1-3.
8. Jensen GA, Mootz RD, Shekelle PG, and Cherkin DC. Chapter VI: Insurance Coverage of Chiropractic Services. In Chiropractic in the United States: Training, Practice, and Research. Agency for Health Care Policy & Research Pub. No. 98-N002, December, 1997, pp. 39-47.
9. Shekelle PG, Phillips RB, Cherkin DC, and Meeker WC. Chapter XI: Benefits and Risks of Spinal Manipulation. In Chiropractic in the United States: Training, Practice, and Research. Agency for Health Care Policy & Research Pub. No. 98-N002, December, 1997, pp. 105-15.

10. Cherkin DC and Mootz RD. Chapter XII: Synopsis, Research Priorities, and Policy Issues. In Chiropractic in the United States: Training, Practice, and Research. Daniel C Cherkin and Robert Mootz, editors. Agency for Health Care Policy & Research Pub. No. 98-N002, December, 1997, pp. 117-130.
11. Sherman KJ and Cherkin DC. Challenges of acupuncture research: Study design considerations. Clin Acupuncture Oriental Med, 2003;3:200-06.

Letters to the Editor

1. Cherkin DC, Berg AO, and Phillips WR. The Practice Denominator. J Fam Pract 1982;15(4):611.
2. Kirkwood CR, and Cherkin DC. Rates of Total Hip Arthroplasty. N Engl J Med 1983;308(12):727.
3. Cherkin DC. Patients Seeking Family Care. J Fam Pract 1984;18(4):524.
4. Rosenblatt RA, Cherkin DC, Schneeweiss R, and Hart LG. Response to “The Content of Ambulatory Medical Care.” N Engl J Med, 1984; 310(16):1060-1.
5. Schneeweiss R, Rosenblatt RA, Cherkin DC, and Hart LG. Fam Pract, 1985;2(2):252-3.
6. Cherkin DC. Effectiveness Follow-up Reminder Methods. J Fam Pract 1989;28(1):20.
7. Cherkin DC. Response to “Patient Satisfaction and Continuity of Care.” J Fam Pract 1989;28(1):17.
8. Cherkin DC. Response to “Patient Evaluations of Low Back Pain Care.” West J Med 1989;151(1):83-4.
9. Cherkin DC. American Medical Association Policy on Chiropractic. Am J Public Health 1989;79:1569-70.
10. Cherkin DC and Barlow W. Survey Questionnaire Design. Am J Public Health 1992;82(1):127-8.
11. Cherkin DC. Response to “Family Physicians and Chiropractors.” J Fam Pract 1993;36:378-9.
12. Cherkin DC. Participation in Treatment Decision Might Lower Hysterectomy Rate. Am J Public Health 1994;84(2):319.
13. Cherkin DC. Response to “Why Patients Use Alternative Medicine.” JAMA 1998;280:1660.
14. Cherkin DC and Street J. Response to “Alternative Medicine- The risks of untested and unregulated remedies.” (Angell M, Kassirer JP), N Engl J Med 1999;340:565.
15. Cherkin DC. Response to, “A comparison of osteopathic spinal manipulations with standard care for patients with low back pain.” (Andersson G, et al), N Engl J Med 2000;342(11):817.
16. Cherkin DC and Sherman KJ. “Challenging implications of a commendable trial”, online Rapid Response to “Effectiveness of acupuncture as an adjunctive therapy in osteoarthritis of the knee: A randomized, controlled trial.” Ann Intern Med 2005; 142:872.
17. Dunn KM and Cherkin DC. “Comparison of two version of the Roland-Morris Disability Questionnaire”. Spine Journal, 2007;32:287.

Editorial Responsibilities (Editorial Boards)

Member of Editorial Board, Health Services Research (1994-98)

Associate Editor, Spine (1995-2011)

Member, Advisory Board, Spine (2011-2012)

Member, Advisory Board, Permanente Journal (2003-)

Editorial Responsibilities (Journals Reviewed)

Aging Health	International Journal for Quality in Health Care
American Journal of Medicine and Rehabilitation	Joint Commission Journal on Quality Improvement
Annals of Epidemiology	Journal of General Internal Medicine
Archives of Family Medicine	Journal of Rural Health
Archives of Internal Medicine	Medical Care
Arthritis Care and Research	Milbank Quarterly
Arthritis and Rheumatism	New England Journal of Medicine
Biomed Central	Pain
BMC Musculoskeletal Disorders	Pediatrics
BMC Nursing	PLoS
British Medical Journal	Physical Therapy Journal
Clinical Journal of Pain	Rheumatology
Families, Systems and Health	Social Science and Medicine
Health Affairs	Spine
Health Services Research	Western Journal of Medicine
HMO Practice	

Outcomes Measurement Instruments

1. Deyo RA, Cherkin DC, Franklin G, and Nichols JC. Low Back Pain TyPEsm Specification - Version 1, December 1989. (A data collection protocol for the measurement and analysis of outcomes of low back pain and its treatment. Developed for Quality Quest, Inc.)

Physician and Patient Education Materials

1. Cherkin DC, Lishner D, Berg AO, Deyo RA, and Bergman JJ. Back in Action. A videotape designed to help primary care physicians provide more effective care to patients with low back pain, 1988.
2. Cherkin DC, Lishner D, Berg AO, and Deyo RA. Back in Action. A patient education pamphlet on low back pain, 1988.
3. Cherkin DC, Berg AO, Deyo RA, and Bergman JJ. Clinical assessment form for low back pain, 1988.
4. Street J, Hunt M, Cherkin D, and Deyo RA. Back in Action: A Guide to Understanding Your Low Back Pain and Learning What You Can Do About It, 1991.

Technical Reports

1. Lawrence DM and Cherkin DC. Physician Manpower Sourcebook - Washington, Alaska, Montana, and Idaho: 1974. Technical Report, Department of Health Services, University of Washington, 1975.
2. Lawrence DM and Cherkin DC. The Physician Manpower Experience in Washington, Alaska, Montana, and Idaho: 1960-74. Technical Report, Department of Health Services, University of Washington, 1975.

3. Cherkin DC, Grothaus L, Stergachis A, and Wagner E. Consumer Experience with Visit Copayments: Survey Results; August 1986 (CHS Technical Paper Series).
4. Cherkin DC and MacCornack R. Understanding the Problem of Low Back Pain: Perspectives of Patients and Providers: Summary Results of Focus Group Discussions with Family Physicians, Chiropractors, and Patients; September 1986 (CHS Technical Paper Series).

Unpublished Works

1. Cherkin DC. Fertility Dynamics in an Indian Village of Highland Guatemala. Master's Thesis, University of Washington, 1974.
2. Cherkin DC. Factors Influencing the Physician Market for New Health Practitioners. Doctoral Dissertation, University of Washington, 1978.
3. Ramsey S, Cherkin DC, and VonKorff M. Utilization of Services by Persons with Acute and Chronic Low Back Pain at Group Health Cooperative of Puget Sound, December, 1996.
4. Cherkin DC. The Concurrent Use of Medical Services by HMO Enrollees Visiting Chiropractors for Back Pain, April, 1998.

CONTINUING EDUCATION PRESENTATIONS

1. Advances in Family Practice Continuing Medical Education Conference, Seattle, Washington, "What's Happening in Family Practice," October 10, 1984.
2. Tacoma General Hospital (Group Health), "What Can the Family Physician Do for the Patient with Back Pain?" December 2, 1987.
3. Riverton Hospital, "Caring for Back Pain - A Different Perspective," March 4, 1988.
4. Group Health Eastside Hospital, Primary Care Orthopedics Course, "Patient Satisfaction and Recovery in Low Back Pain," March 24, 1988.
5. Group Health Central Hospital, "What Can the Family Physician Do for the Patient with Back Pain?" April 4, 1988.
6. University of Washington, "Low Back Pain," Presentation to Fall End-of-Quarter Meeting of the Family Medicine Clerkship Course Committee, October 7, 1988.
7. Group Health Cooperative Eastside Primary Care Clinic, "Understanding the Problem of Low Back Pain: The Perspectives of GHC Family Physicians and Their Patients," Presentation to Family Physicians, October 10, 1988.
8. Group Health Department of Medical Education, "Patient Satisfaction and Recovery in Low Back Pain," Presentation at Primary Care Orthopedics Course, October 20, 1988.
9. Group Health Cooperative Medical Staff Grand Rounds, Panel Discussion of "Chronic Pain Management," January 23, 1989.

10. University of Washington Pain Clinic Rounds, Seattle, Washington, "Primary Care of Low Back Pain," May 19, 1989.
11. University of Washington, 17th Annual Advances in Family Practice Course, Seattle, Washington, "Can CME Cure Your Nagging Back Problems?" September 13, 1989.
12. Group Health Cooperative Sponsored Workshop, "Managing Low Back Pain: A Three Part Model That Works," Panelist, October 12, 1990.
13. University of Washington Pain Clinic Rounds, Seattle, Washington, "Primary Care Interventions For Low Back Pain," January 28, 1994.
14. Group Health Medical Staff Grand Rounds, "A Randomized Trial Comparing McKenzie Physical Therapy, Chiropractic Manipulation, and an Educational Booklet for Low Back Pain," Seattle, Washington, December 13, 1995.
15. Northwest Permanente Falstaff XIV Continuing Medical Education Program, "Are Alternative Therapies Effective for Low Back Pain?" Resort at the Mountain, Welches, Oregon, October 5, 1997.
16. Group Health Cooperative Conference--Alternative Medicine 1997: Science and Health for the 21st Century, "Are Alternative Therapies Effective for Low Back Pain?" Sea-Tac, Washington, December 5, 1997.
17. Family Medicine Residents' Didactic. "Are 'Alternative' Therapies Effective for Low Back Pain?" University of Washington Family Medical Center, Seattle, Washington, January 27, 1999.
18. Complementary Medicine: An Evidence-Based Approach for Clinicians. "Are 'Alternative' Therapies Effective for Low Back Pain?" University of Washington Continuing Medical Education Course. Seattle, Washington, March 20, 1999.
19. Alternative Medicine 1999: A Foundation for Provider-Patient Dialogue. (Sponsored by Group Health Cooperative). "GHC's Experience with Alternative Medicine: Results of a Randomized Trial Comparing Acupuncture, Massage, and Self-Care for Low Back Pain," Seattle, Washington, October 29, 1999.
20. The Fourth International Forum for Primary Care Research on Low Back Pain, Pre-conference Workshop. "Complementary and Alternative Therapies for Low Back Pain," Co-Presented with Paul Shekelle, MD, PhD, Jerusalem, Israel, March 15, 2000.
21. The Fourth International Forum for Primary Care Research on Low Back Pain, Pre-conference Workshop. Plenary Panel: "State of the Art---Primary Care Approaches to Treatment of Low Back Pain," Jerusalem, Israel, March 15, 2000.
22. Group Health Cooperative, Continuing Medical Education: Healing with Complementary Medicine: A Base for Understanding. "Acupuncture vs. Massage. vs. Self-care for Persisting Back Pain," Tacoma, Washington, April 26, 2001.

23. The Group Health Permanente Associate Program. “The Optimal Healing in Primary Care Project”. October 25, 2006, Seattle, Washington.
24. Group Health Complementary and Alternative Medicine CME Course. “Lessons From CAM for Making Primary Care More Healing”, Seattle, November 8, 2007.
25. Group Health Behavioral Medicine Clinical Shares. “Clinical Research Perspectives on What Makes Healthcare Healing”. Seattle, November 27, 2007.

PRESENTATIONS AT REGIONAL, NATIONAL, AND INTERNATIONAL MEETINGS

1. Seventh Annual Conference on Physician Assistants, Hollywood, Florida, “Factors Influencing the Physician Market for New Health Practitioners,” April 25, 1979.
2. Third Annual Family Medicine Resident Research Retreat of the Affiliated Family Practice Residency Network, Crystal Mountain, Washington, “So You Want to do Research? - Some Aids and Admonitions,” April 29, 1979.
3. North American Primary Care Research Group, Lancaster, Pennsylvania, “Factors Influencing the Likelihood Primary Care Physicians Will Employ New Health Practitioners,” April 17, 1980.
4. North American Primary Care Research Group, Incline Village, Nevada, “In Search of a Solution to the Denominator Problem,” March 18, 1981.
5. Sixth Annual Family Medicine Resident Research Retreat of the Affiliated Family Practice Residency Network, Alderbrook, Washington, “The Practice as the Tip of An Iceberg—What’s Underneath?” April 24, 1982.
6. North American Primary Care Research Group, Columbus, Ohio, “Factors Influencing the Workload and Productivity of Family and General Practitioners,” May 21, 1982.
7. North American Primary Care Research Group, Banff, Canada, “Slicing Up the Pie: Who Provides Ambulatory Care in America?” April 18, 1983.
8. Seventh Annual Family Medicine Resident Research Retreat of the Affiliated Family Practice Residency Network, Port Ludlow, Washington, “How to Successfully Design and Execute a Survey,” May 14, 1983.
9. Resident’s Research Day of the Family Practice Residency of Northwest Idaho, Boise, Idaho, “How to Successfully Design and Execute a Survey,” October 26, 1983 (invited).
10. Eighth Annual Family Medicine Research Retreat of the Affiliated Family Practice Residency Network, Port Ludlow, Washington, “Research in Community Practices: Gold Mine or Mine Field?” April 14, 1984.
11. North American Primary Care Research Group, Orlando, Florida, “How Well do Family Physicians Know Their Patients? - An Evaluation of Physician-Reported Encounter Data,” May 5, 1984.
12. Society of Teachers of Family Medicine Western Regional Meeting, Seattle, Washington, “Designing and Implementing Survey Research,” October 18, 1984.
13. North American Primary Care Research Group, Seattle, Washington, “A Comparison of the Management of Ambulatory Hypertensive Patients by Recently-Trained Family Physicians and General Internists,” April 17, 1985 (presented by co-author Gary Hart).

14. North American Primary Care Research Group, Baltimore, Maryland, "A Comparison of the Patients of Residency-Trained Family Physicians and General Internists," April 14, 1986.
15. North American Primary Care Research Group, Minneapolis, Minnesota, "Understanding the Problem of Low Back Pain: The Provider's Perspective," May 19, 1987.
16. North American Primary Care Research Group, Minneapolis, Minnesota, "Patient Satisfaction with Family Physicians and General Internists: Is There a Difference?" May 20, 1987 (presented by co-author Gary Hart).
17. National Center for Health Statistics Workshop on Advances in the Epidemiology of Pain, San Diego, California, "Chronic Pain and Health Services Utilization," February 25, 1988 (invited).
18. North American Primary Care Research Group, Ottawa, Canada, "Family Physicians' Views of Chiropractors: Hostile or Hospitable?" May 9, 1988 (presented by co-author Al Berg).
19. North American Primary Care Research Group, Ottawa, Canada, "The Effect of Office Visit Co-payments on Utilization in a Health Maintenance Organization," May 9, 1988.
20. Pacific Consortium for Chiropractic Research, San Diego, California, "Understanding the Problem of Low Back Pain: The Perspectives of Patients and Providers," June 19, 1988 (invited).
21. North American Primary Care Research Group, San Antonio, Texas, "An Evaluation of an Educational Intervention to Improve Primary Care for Low Back Pain," April 13, 1989.
22. American Medical Review Research Center Fourth Annual Research Symposium, Atlanta, Georgia, "Patient Outcome Assessment Research Program on Back Pain," November 2, 1989 (invited).
23. Consensus Conference on Validation of Chiropractic Methods, Seattle, Washington, "Patient Satisfaction as an Outcome Measure," March 2, 1990 (invited).
24. Primary Care Research: An Agenda for the 90's Conference, sponsored by Agency for Health Care Policy and Research, Colorado Springs, Colorado, "Activities of the Back Pain Outcome Assessment Team," March 29, 1990 (invited).
25. Foundation for Health Care Quality, Third Annual Conference, Seattle, Washington, "Update on Activities of Back Pain Outcome Assessment Team," September 11, 1990 (invited).
26. Rural Health Research Workshop, Seattle, Washington, "Managing Research: What Happens After You've Been Funded," September 18, 1990 (invited).
27. Agency for Health Care Policy and Research, Allied Health MEDTEP Research Issues Conference, Key West, Florida, "A Case Study in Effectiveness Research: Low Back Pain," October 30, 1990 (invited).
28. Conference on Patient Outcomes Research: Examining the Effectiveness of Nursing Practice. Rockville, Maryland, "Methods and Measurement in Patient Outcome Research: Universal Issues in Designs and Methods," September 12, 1991 (invited).
29. Foundation for Health Care Quality Fourth Annual Conference. Seattle, Washington, Back Pain Outcome Assessment Team: Activity Update, September 27, 1991 (invited).
30. American Pain Society 10th Annual Scientific Meeting, Practice Variation in the Surgical and Non-Surgical Treatment of Low Back Pain, New Orleans, Louisiana, Part of Pre-Conference Session on Low Back Pain: Issues in Delivery of Care, November 7, 1991 (invited).

31. Consensus Workshop for Outcomes Assessment in Musculoskeletal Disease, Park-Nicollett Medical Foundation, Minneapolis, Minnesota, "Outcome Measures for Low Back Pain," September 18, 1992 (invited).
32. Foundation for Health Care Quality, Fifth Annual Conference on Health Care Quality, Seattle, Washington, "Physician Perspectives on Evaluation and Non-Surgical Treatment of Low Back Pain," October 27, 1992 (invited).
33. Third Primary Care Research Conference: Challenges in Practice-Based Research sponsored by the Agency for Health Care Policy and Research, Atlanta, Georgia, "Overview of Low Back Pain PORT/Additional Research Needs," January 11, 1993 (invited).
34. Outcomes and Effectiveness in Musculoskeletal Research, American Academy of Orthopaedic Surgeons, San Antonio, Texas, "AHCPR Low Back Pain PORT Update," May 3, 1993 (invited).
35. International Society for the Study of the Lumbar Spine, Marseille, France, "An International Comparison of Back Surgery Rates," June 18, 1993 (presented by co-author R.A. Deyo).
36. Workshop on Epidemiology and Treatment of Low Back Pain, sponsored by the French Society of Rheumatology, Paris, France, "Designing and Evaluating Educational Interventions in Primary Care," October 2, 1993 (invited).
37. North American Primary Care Research Group, San Diego, California, "Can an Educational Session with a Primary Care Nurse Improve Outcomes of Care for Low Back Pain?" November 11, 1993 (presented by co-author, Janet Street).
38. Workers Compensation Research Institute's Health Care Issues and Research Conference, Cambridge, Massachusetts, "Effective Treatment of Low Back Pain: Evidence from the Patient Outcome Research Team." March 2, 1994 (invited).
39. Patient Outcomes Research Conference (sponsored by Hawaii Medical Service Association) Honolulu, Hawaii, "Low Back Pain Outcomes and Applicability to Practice," May 27, 1994 (invited).
40. International Conference on Spinal Manipulation, Palm Springs, California, "What Aspiring Researchers Should Know About the Grant Review Process," June 11, 1994 (invited).
41. International Conference on Spinal Manipulation, Palm Springs, California, "Are Chiropractors Primary Care Gatekeepers?" June 11, 1994 (invited participant in debate).
42. International Society for the Study of the Lumbar Spine, Seattle, Washington, "Can an Educational Session with a Primary Care Nurse Improve Outcomes of Care for Low Back Pain?" June 22-24, 1994 (poster).
43. International Society for the Study of the Lumbar Spine, Seattle, Washington, "Physician Views About Treating Low Back Pain: Results of a National Survey?" June 22-24, 1994 (poster).
44. Society of General Internal Medicine, Northwest Regional Meeting, Portland, Oregon, "Can an Educational Session with a Primary Care Nurse Improve Outcomes of Care for Low Back Pain?" February 24, 1995.
45. Wyeth-Ayerst Research Division's Special Seminar, Radnor, Pennsylvania, "A Randomized Trial Comparing the Effectiveness and Costs of Physical Therapy and Chiropractic Manipulation for Low Back Pain: A Model for Comparative Drug Trials," March 8, 1995 (invited).

46. University of Washington School of Nursing Research Day, Seattle, Washington, "The Low Back Pain PORT: A Model for Interdisciplinary Research?" April 5, 1995 (invited).
47. Society of General Internal Medicine, Annual Meeting, "Pitfalls of Patient Education: Limited Success of a Program for Back Pain in Primary Care," San Diego, May 5, 1995 (Presented by co-author Richard Deyo).
48. Fourth McKenzie Institute International Conference, Cambridge, England, "Research Design Workshop," September 17, 1995 (invited).
49. Fourth McKenzie Institute International Conference, Cambridge, England, "Outcomes Measures Workshop," September 17, 1995 (invited).
50. Fourth McKenzie Institute International Conference, Cambridge, England, "Comparison of McKenzie Therapy and Chiropractic Manipulation for Low Back Pain: Preliminary Findings," September 17, 1995 (invited).
51. International Forum for Primary Care Research on Low Back Pain, Seattle, Washington, "Pitfalls of Patient Education: Limited Success of a Program for Back Pain in Primary Care," October 14, 1995.
52. International Forum for Primary Care Research on Low Back Pain, Seattle, Washington, "A Randomized Trial Comparing McKenzie Therapy, Chiropractic Manipulation and an Educational Booklet for Low Back Pain: One Month Outcomes," October 14, 1995.
53. Society of General Internal Medicine, Northwest Regional Meeting, Seattle, Washington, "A Randomized Trial Comparing McKenzie Physical Therapy and Chiropractic Manipulation for Low Back Pain," February 23, 1996.
54. Conference on Evidence-Based Approach to Low Back Pain sponsored by the National Sick Fund of Holland, "Problems with Care for Low Back Pain in the United States (and Some Solutions)," March 21, 1996 (invited keynote).
55. Technion Department of Family Medicine Residency Seminar, Haifa, Israel, "A Randomized Trial Comparing McKenzie Physical Therapy and Chiropractic Manipulation for Low Back Pain," March 27, 1996 (invited).
56. University of Washington Medical School Executive Committee Annual Retreat, Semi-Ah-Moo, Washington, "What is Known About the Efficacy of Alternative Therapies?" May 9, 1996 (invited).
57. Canadian Physical Therapy Association, Victoria, British Columbia, Canada, "A Randomized Trial Comparing the McKenzie Method, Manipulation, and Usual Medical Care for Low Back Pain: One Month Outcomes," June, 1996 (presented by co-author Michele Battie).
58. International Society for the Study of the Lumbar Spine, Burlington, Vermont, "A Randomized Trial Comparing McKenzie Therapy, Chiropractic Manipulation, and an Educational Booklet for Low Back Pain: One Month Outcomes," June, 1996 (presented by co-author Richard A. Deyo).
59. North American McKenzie Institute Conference, San Diego, California, "A Randomized Trial Comparing Chiropractic Manipulation, McKenzie Therapy, and an Educational Booklet for Low Back Pain," September 29, 1996 (invited).
60. International Conference on Spinal Manipulation, Bournemouth, England, "A Randomized Trial Comparing Chiropractic Manipulation, McKenzie Therapy, and an Educational Booklet for Low Back Pain," October 19, 1996.

61. Second International Forum for Primary Care Research on Low Back Pain, The Hague, Netherlands, “Primary Care Research on Low Back Pain: The State of Science,” May 30, 1997 (invited keynote).
62. North American McKenzie Institute Conference, Pittsburgh, Pennsylvania, “A Randomized Trial Comparing Chiropractic Manipulation, McKenzie Therapy, and an Educational Booklet for Low Back Pain: Final Results” September 12, 1997 (invited—presented by co-investigator, Dr. Michele Battie)
63. Acupuncture: A Clinical Research Symposium at NIH sponsored by the Society for Acupuncture Research and the Pain Interest Group of the National Institute on Drug Abuse, Bethesda, Maryland, “Alternative Therapies for Low Back Pain: A Randomized Trial,” November 2, 1997 (invited).
64. National Institutes of Health Consensus Development Conference on Acupuncture, Bethesda, Maryland, “Efficacy of Acupuncture in Treating Low Back Pain,” November 3, 1997 (invited).
65. Invited Presentation on Alternative Medicine to Senior Caucus (Northgate/Northwest Chapter) of Group Health Cooperative, Seattle, Washington, February 11, 1998.
66. Institute for Healthcare Improvement National Congress on Improving Care for Low Back Pain, St. Louis, Missouri, “Changing Patient Expectations: Innovative Methods of Patient Education,” February 19, 1998 (invited).
67. HMO Research Network Conference III, Oakland, California, “Chiropractic vs. Physical Therapy vs. Patient Education for Low Back Pain: A Randomized Trial,” May 8, 1998.
68. Northwest Health Policy Research Conference, Seattle, Washington, “Chiropractic vs. Physical Therapy for Low Back Pain: Which is More Cost-Effective?” May 14, 1998.
69. Fifth Symposium of the Society for Acupuncture Research. Palo Alto, California, “Acupuncture vs. Massage vs. Self-Care for Persisting Back Pain: A Randomized Trial,” September 26, 1998 (Presented by K. Sherman).
70. Cochrane Collaboration Back Pain Reviews Workshop. Manchester, England, “Practical Issues Arising from Acupuncture Review: Selection of Trials,” October 1, 1998 (invited).
71. Third International Forum for Primary Care Research on Low Back Pain, Manchester, England, “Acupuncture vs. Massage vs. Self-Care for Persistent Back Pain: A Randomized Trial,” October 3, 1998.
72. Third International Forum for Primary Care Research on Low Back Pain, Manchester, England, “A Randomized Trial Comparing Physical Therapy, Chiropractic Manipulation, and an Educational Booklet,” October 3, 1998.
73. Kaiser Permanente Northwest Center for Health Research Seminar, Portland, Oregon, “Considering the Alternatives: A New Research Program Evaluating Alternative and Complementary Approaches to Healing,” October 30, 1998 (invited).
74. HMO Research Network Conference, Oahu, Hawaii, “A Randomized Trial Comparing Acupuncture, Massage, and Self-Care for Chronic Back Pain,” March 4, 1999 (poster).
75. American Massage Therapy Association Foundation Massage Therapy Research Agenda Workgroup, Seabrook Island, “The National Alternative Medicine Ambulatory Care Survey,” March 27, 1999 (invited).

76. American Massage Therapy Association Foundation Massage Therapy Research Agenda Workgroup, Seabrook Island, “Acupuncture vs. Massage vs. Self-Care for Persisting Back Pain: A Randomized Trial,” March 27, 1999 (invited).
77. Health Expo, Seattle, Washington, “Alternative therapies for low back pain: Are they effective?” April 30, 1999.
78. 7th Nordic Congress on Manual Therapy, McKenzie Approach and Musculoskeletal Medicine, Low Back Pain, Clinical and Scientific Update, Copenhagen, Denmark, “A Randomized Trial Comparing McKenzie Therapy, Chiropractic Manipulation, and an Educational Booklet for Low Back Pain,” September 4, 1999 (invited).
79. Management of Low Back Pain: Beyond Rhetoric Toward Outcomes II Conference, Edmonton, Alberta, Canada, “Alternative Therapies for Low Back Pain: Are they Effective?” University of Alberta, September 18, 1999 (invited).
80. Management of Low Back Pain: Beyond Rhetoric Toward Outcomes II Conference, Edmonton, Alberta, Canada, “A Randomized Controlled Trial of Massage and Acupuncture,” University of Alberta, September 18, 1999 (invited).
81. In Touch: A National Massage Therapy Research Symposium. Vancouver, British Columbia, Canada, “Comparing Acupuncture, Massage, and Self-Care for Chronic Back Pain,” October 8, 1999.
82. Complementary and Alternative Medicine: Practical Applications and Evaluations, San Francisco, California, “CAM Therapies for Low Back Pain: Are They Effective? Do They Save Money?” October 16, 1999 (invited).
83. The Fourth International Forum for Primary Care Research on Low Back Pain, Eilat, Israel, “Acupuncture vs. Massage vs. Self-care for Persisting Back Pain: A Randomized Trial,” March 16, 2000 (interactive poster session).
84. The Fourth International Forum for Primary Care Research on Low Back Pain, Panel Discussion, Eilat, Israel, “Complementary Medicine for Low Back Pain: Where are We Going?” March 16, 2000 (invited).
85. Sixth Annual HMO Research Network Conference, Atlanta, Georgia, “Alternative Providers in Washington State: Who Are They and What Do They Do?” April 4, 2000 (poster).
86. Complementary and Alternative Medicine: Practical Applications and Evaluation, Koloa, Hawaii, “Licensed CAM Providers in the U.S. - Who Are They and What Kinds of Patients Do They Treat?” October 29, 2000 (invited).
87. NCCAM Integrated Medicine Conference: Can Alternative Medicine be Integrated into Mainstream Care? London, United Kingdom, “Research Methodology for CAM.” Co-sponsored by the Royal College of Physicians and the National Institutes of Health, January 23, 2001 (invited).
88. Complementary and Alternative Medicine: Clinical Update and Implications for Practice, Boston, Massachusetts, “Licensed CAM Providers in the U.S. - Who Are They and What Kinds of Patients Do They Treat?” February 13, 2001 (invited).
89. International Scientific Conference on Complementary, Alternative, and Integrative Medicine, San Francisco, California, “A Randomized Trial Comparing Acupuncture, Massage, and Self-Care Education for Chronic Low Back Pain,” May, 2001.

90. Research on Chiropractic and Acupuncture Workshop, Oslo, Norway, “Status of Acupuncture Research: Where Are We and Where Are We Going?” March 8-9, 2002 (Invited)
91. Research on Chiropractic and Acupuncture Workshop. “Do Alternative Therapies Require Alternative Methodology?” Oslo, Norway, March 8-9, 2002 (invited).
92. Complementary and Integrative Medicine: State of the Science and Clinical Applications, Boston, Massachusetts, “CAM Therapies for Back Pain: Are They Effective? Do They Save Money?” March 24-26, 2002 (invited).
93. Eighth Annual HMO Research Network Conference, Long Beach, California, “Example of a Successful Pragmatic Trial in an HMO,” April 9-10, 2002 (invited).
94. International Scientific Conference on Complementary, Alternative, and Integrative Medicine Research, Boston, Massachusetts, “CAM Therapies for Back Pain: Are They Safe? Are They Effective? Do They Save Money?” April 12-14, 2002 (poster).
95. International Forum V Primary Care Research on Low-Back Pain, Montreal, Quebec, Canada, “CAM Therapies for Back Pain: Are They Effective? Do They Save Money?” May 10-11, 2002.
96. First Annual Seattle-Area CAM Research Symposium, Seattle, Washington, “Licensed CAM Providers in the US: Who Are They and What Kind of Patients do They Treat?” October 17, 2002 (invited).
97. The Sixth International Forum for Primary Care Research on Low Back Pain, Linkoping, Sweden, “Evaluating the Efficacy of Acupuncture for Low Back Pain,” May 24, 2003.
98. Health and Policy Research Seminar (HSERV 592E), University of Washington, Seattle, Washington, “Overview of the Group Health Center for Health Studies and Its Research Program on Complementary and Alternative Medicine,” March 29, 2004 (invited).
99. Second International Symposium on the Science of Touch, Montreal, Quebec, Canada, “A Randomized Trial Evaluating the Effectiveness of Massage for Chronic Low Back Pain: The Story Behind the Results,” May 13, 2004 (invited).
100. Second International Symposium on the Science of Touch, Montreal, Quebec, Canada, “An Introduction to Research Design for Massage Therapists,” (workshop) May 13, 2004 (invited).
101. Seventh International Forum for Primary Care Research on Low Back Pain, Edmonton, Alberta, Canada, “What Do Complementary and Alternative Medicine (CAM) Have to Offer Patients with Low Back Pain?” October 8, 2004 (invited).
102. Seventh International Forum for Primary Care Research on Low Back Pain, Edmonton, Alberta, Canada, “The Effect of Mindfulness-Based Stress Reduction on Persons with Chronic Low Back Pain: Intriguing Results from a Pilot Study,” October 9, 2004 (poster).
103. Special CAM Lecture, Baltimore, Maryland, “Methodologic Challenges of Designing a Randomized Trial of Acupuncture for Back Pain: Balancing Scientific Rigor with Clinical Relevance,” Johns Hopkins University, March 28, 2005 (invited).
104. Eleventh Annual HMO Research Network Conference, Sante Fe, New Mexico, “The Effect of Mindfulness-Based Stress Reduction on Persons with Chronic Low Back Pain: Intriguing Results from a Pilot Study,” April 5, 2005 (poster).

105. Conference on Chronic Pain as a Health System Priority: How Evidence Could Inform Policy and Practice. “Complementary and Alternative Medicine.” Plymouth Meeting, Pennsylvania, November 2, 2005 (invited).
106. Group Health Senior Caucus Executive Council. “The Group Health Center for Health Studies.” February 7, 2006, Seattle (invited).
107. Group Health Medical Center Councils Annual Conference. “The Group Health Center for Health Studies.” Tukwila, Washington, April 8, 2006 (invited).
108. Group Health Nursing Leadership Forum. “Optimizing Healing in Primary Care Project.” Tukwila, Washington, April 18, 2006 (invited).
109. North American Research Conference on Complementary and Integrative Medicine "The effect of mindfulness-based stress reduction on persons with chronic low back pain: intriguing results from a pilot study." Edmonton, Canada, May 26, 2006 (poster).
110. International Conference on Low Back Pain: Evidence and Implications for Clinical Practice. “Alternative and Complementary Interventions.” Amsterdam, June 6, 2006 (invited).
111. Eighth International Forum for Primary Care Research on Low Back Pain. Is Relaxation Massage an Effective Treatment for Chronic Back Pain? Protocol for a Large Randomized Controlled Trial. Amsterdam, June 10, 2006 (poster).
112. 13th Annual HMO Research Network Conference. “The Optimizing Healing In Primary Care Project.” March 20, 2007, Portland, Oregon.
113. Rational Treatment for Low Back Pain Symposium. “Taking the whole patient seriously.” September 29, 2007, Amsterdam, Holland. (invited)
114. International Symposium: Advances in the Management of Low Back Pain. “Alternative treatments for low back pain.” October 2, 2007, Madrid, Spain.
115. Ninth International Forum for Primary Care Research on Low Back Pain. Is acupuncture needling effective for chronic back pain? October 6, 2007, Palma de Mallorca, Spain.
116. KL2 NIH Roadmap Multidisciplinary Clinical Research Career Development Program, “In Search of Healing: A Research Odyssey.” University of Washington, Seattle, March 3, 2008 (Invited).
117. Inaugural Bastyr University Research Conference: Collaborative Research in CAM-Making Studies Relevant to Clinical Practice. “Results of a Randomized Trial Evaluating Acupuncture for Chronic Low Back Pain.” Joint presentation with Karen Sherman. April 25, 2008. Kenmore, Washington (Invited).
118. Esalen Institute and Institute of Noetic Sciences Conference on Integration of Consciousness into Healthcare. “The Optimizing Healing in Primary Care Project”. Esalen Institute, Big Sur, California, October 12-16, 2008 (Invited).
119. University of Washington Center for Pain Medicine’s Seminars in Pain Medicine. Alternative treatments for low back pain. November 18, 2008, Seattle.

120. Health Journalism 2009 (Annual conference of the Association of Health Care Journalists). “CAM for back pain: What’s working? What’s ahead?” April 18, 2009, Seattle.
121. North American Conference of Complementary and Integrative Medicine. A randomized trial comparing relaxation massage, focused structural massage and usual care for chronic low back pain. May 13, 2009, Minneapolis.
122. NIH Workshop on Non-Pharmacologic Management of Chronic Back Pain. Member of Steering Committee and Session Chair. May 27, 2009, Bethesda, Maryland.
123. Tenth International Forum for Primary Care Research on Low Back Pain. A randomized trial comparing relaxation massage, focused structural massage and usual care for chronic low back pain. June 16, 2009, Boston.
124. Bastyr University Research Conference “Health Mind Healthy Medicine”. Panelist for discussion of “Integrative/CAM Comparative Effectiveness Trials: Opportunities and Barriers”, October 3, Kenmore, Washington (invited).
125. Workshop “An overview of the key elements of high quality clinical trials”. Iberoamerican Cochrane Center Workshop, Barcelona, Spain, October 27, 2009. (invited)
126. Plenary session on “The challenges of conducting scientifically rigorous and clinically meaningful trials evaluation treatments for back pain”. Iberoamerican Cochrane Center Workshop, Barcelona, Spain, October 28, 2009. (invited)
127. Workshop “How to critically appraise clinical trials evaluating non-pharmacologic treatments for chronic back pain.”) Iberoamerican Cochrane Center Workshop, Barcelona, Spain, October 28, 2009. (invited)
128. Highlighting Massage Therapy in Complementary and Integrative Medicine Research Conference. “Is Massage Effective for Back and Neck Pain? Applying Research to Your Practice.” May 13, 2010, Seattle. (Invited plenary)
129. Symposium for Portland Area Research on Complementary and Alternative Medicine (SPARC). “A Decade of Research on CAM for Chronic Pain: A Collaborative Odyssey to the Land of Healing”. Co-presented with Karen Sherman. April 17, 2010, Portland, Oregon. (Invited plenary).
130. Primary Care Musculoskeletal Research Congress. “Optimizing non-specific effects of treatment in patients with musculoskeletal disorders.” October 13, 2010, Rotterdam, The Netherlands (Invited plenary).
131. “Diversity in Approaches to Care” panel member. CityClub Health Care Series, Seattle, May 27, 2011.
132. Oregon College of Oriental Medicine’s Research Grand Rounds. “Optimizing the Non-Specific Effects of Treatments for Back Pain.” July 8, 2011, Portland, Oregon.

