

DAVID MARK BUCHNER, M.D., M.P.H.

BIOGRAPHIC INFORMATION

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EDUCATION

1970 - 1974 Harvard College, Cambridge, Massachusetts; Bachelor of Arts (B.A.) (1974)
Psychology.
1974 - 1977 University of Kansas, Kansas City, Kansas; Doctorate of Medicine (M.D.) (1977).
1982 - 1984 University of Washington, Seattle, Washington; Master of Public Health (M.P.H.) (1984)
Health Services.

PROFESSIONAL POSITIONS AND TRAINING

2008-present Shahid and Ann Carlson Khan Professor in Applied Health Sciences
Department of Kinesiology and Community Health
University of Illinois at Urbana-Champaign, Champaign, IL
2008-present Director, Master of Public Health Program, University of Illinois at Urbana-Champaign,
Champaign, IL
1999- 2008 Chief, Physical Activity and Health Branch (PAHB), Division of Nutrition and Physical
Activity (DNPA), National Center for Chronic Disease Prevention and Health Promotion
(NCCDPHP), Centers for Disease Control and Prevention (CDC), Atlanta, GA
1998 - 1999 Director, Northwest Prevention Effectiveness Center, University of Washington, Seattle,
Washington.
1997 - 1998 Deputy Director, Northwest Prevention Effectiveness Center, University of Washington,
Seattle, Washington.
1996 - 1998 Co-Director, Center for Cost and Outcomes Research, University of Washington, Seattle,
Washington.
1995 - 1999 Professor, Department of Health Services, School of Public Health and Community
Medicine, University of Washington, Seattle, Washington.
1995 - 1999 Adjunct Professor, Division of Gerontology and Geriatric Medicine, Department of
Medicine, University of Washington, Seattle, Washington.
1994 - 1995 Visiting Senior Lecturer, Department of Medicine, University of Otago, Dunedin, New
Zealand
1993 - 1996 Director, Community Medicine Program, Department of Health Services, School of Public
Health and Community Medicine, University of Washington, Seattle, Washington.
1993 - 1994 Acting Co-Director, HSR&D Post-Doctoral Ph.D. Fellowship Program, Northwest
HSR&D Program, Seattle VA Medical Center, Seattle, Washington.
1989 - 1995 Associate Professor, Department of Health Services, School of Public Health and
Community Medicine, University of Washington, Seattle, Washington.

- 1989 - 1995 Adjunct Associate Professor, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Washington, Seattle, Washington.
- 1989 - 1999 Adjunct Associate Scientific Investigator, Center for Health Studies, Group Health Cooperative of Puget Sound, Seattle, Washington.
- 1986 - 1999 Research Coordinator, Northwest HSR&D (Health Services Research and Development) Field Program, VA Medical Center, Seattle, Washington.
- 1984 - 1989 Assistant Professor, Department of Health Services, School of Public Health and Community Medicine, University of Washington, Seattle, Washington.
- 1984 - 1989 Adjunct Assistant Professor, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Washington, Seattle, Washington.
- 1983 - 1984 Acting Instructor, Department of Medicine, University of Washington, Seattle, Washington.
- 1982 - 1984 Robert Wood Johnson Clinical Scholar, University of Washington Clinical Scholars Program, Department of Medicine, Seattle, Washington.
- 1981 - 1982 Chief Resident, Department of Medicine, VA Medical Center, Indianapolis, Indiana.
- 1978 - 1981 Resident, Department of Medicine, University of Indiana Medical Center, Indianapolis, Indiana.
- 1977 - 1978 Fellow, Department of History and Philosophy of Medicine, University of Kansas, Kansas City, Kansas.

SCHOLARSHIPS, FELLOWSHIPS, HONORS, AND AWARDS

- 1977 Carlos Guffey Prize for the best essay in the History of Medicine, University of Kansas.
- 1982 - 1984 Robert Wood Johnson Clinical Scholar
- 1995 R.S.L Visiting Professor for Australian Society for Geriatric Medicine
- 1998 Selected as "Seattle Best Doctor" in Geriatric Medicine
- 2005 George Butler Lecture, Leisure Research Symposium, National Recreation and Park Association Congress (San Antonio, Texas)
- 2006 Nominated for "Outstanding Manager" category of "Federal Employee of the Year" (~15 managers were so recognized from all federal agencies in the Atlanta region)
- 2009 Charles C. Shepard Science Award for Prevention and Control (awarded by CDC to the authors of the best scientific paper written by CDC staff).
- 2009 Fellow, Gerontological Society of America
- 2010 R. Tait McKenzie Memorial Lecture, AAHPERD (American Alliance for Health, Physical Education, Recreation, and Dance).
- 2010 Fellow, American College of Sports Medicine

PROFESSIONAL ACTIVITIES

Research-Related

- Chairman, Strategic Health Initiative-Aging Committee, American College of Sports Medicine (2010-present)
- Member, Data Safety and Monitoring Board for National Institute of Aging LIFE (Lifestyle Interventions and Independence for Elders) main study (2009 - present)
- Member, Physical Activity Committee, Council on Nutrition, Physical Activity, and Metabolism, American Heart Association (2009 – present)
- Member, Clinical Trials Advisory Panel, National Institute on Aging (2008 to present)

Member, Data Safety and Monitoring Board for National Institute of Aging CALERIE (Comprehensive Assessment of Long-term Effects of Reducing Intake of Energy) studies (2000- present).
Guest Editor, Supplement to the American Journal of Preventive Medicine (2008)
Member, National Institute on Aging Exercise Task Force (2005 - present)
Member, Program Advisory Committee, Fall Prevention Center of Excellence, University of Southern California Andrus Gerontology Center (2005-2007)
Ex Officio Member, Physical Activity Committee, Council on Nutrition, Physical Activity, and Metabolism, American Heart Association (2003 - 2008)
Member, Data Safety and Monitoring Board for National Institute of Aging LIFE Pilot (Lifestyle Interventions and Independence for Elders) study, (2003-2006)
Chairman, National Advisory Committee for Robert Wood Johnson Foundation “Active For Life” research initiative (2000-2004)
Ad Hoc Member, National Institute on Aging, Board of Scientific Counselors (2003).
Member, Scientific Advisory Committee, Active Living by Design: Creating Activity-Enhancing Residential Settings (project at Georgia Institute of Technology funded by Robert Wood Johnson Foundation, 2002-2004)
Member, Advisory Panel to National Institute of Aging, Testosterone Replacement in Men (2000).
Member, External Review Committee for the Claude Pepper Older Adult Independence Center at UCLA (1992-2001).
Sponsor, Harkness Fellowship for Sarah Lamb, Ph.D. (1995-96) (The Harkness Fellowships is a program of The Commonwealth Fund that provides funding for mid-career professionals to pursue studies in the USA).
Chairman, FICSIT (Frailty and Injuries: Cooperative Studies of Intervention Techniques) Steering Committee (1990-94). The Steering Committee (consisting of NIA staff, the principal investigators of the 8 FICSIT sites, and the principal investigator of the Coordinating Center) coordinated the research program among the FICSIT sites.
Chairman, FICSIT Physical Function Committee (1990-94).
Chairman, SOTA I (State-Of-The-Art) Conference, Fall, 1992, Washington, D.C. The conference was the first of a series of conferences being produced by the DVA HSR&D Research Service to disseminate state of the art information about health services research topics.

Membership in Professional Organizations

Gerontological Society of America
American College of Sports Medicine
American Public Health Association
Illinois Public Health Association
International Society for Physical Activity and Health

Editorial Boards

Member, Editorial Board, *The Journal of Gerontology* (1985-88)
Associate Editor, *Journal of Physical Activity and Health* (2008-present)

Licensure to Practice

Washington State, No. 19802 (1982 - 2005)

Board Certification

American Board of Internal Medicine (1982)
Diplomate in Geriatric Medicine, American Board of Internal Medicine (1988-1998)

Medical Practice

Physician, Senior Care Program, Harborview Medical Center, Seattle, Washington, 1982-1995.
Physician, GRECC, VA Puget Sound Health Care System, 1996 to 1999.

BIBLIOGRAPHY

Papers in Refereed Journals

(numbered in chronological order; listed in reverse chronological order)

102. Parra DC, Gomez LF, Sarmiento OL, Buchner DM, Brownson R, Schmid T, Gomez V, Lobelo F. Perceived and objective neighborhood environment attributes and health related quality of life among the elderly in Bogota', Colombia. *Social Science & Medicine* 2010;70:1070–1076.
101. Hooker SP, Buchner DM. Education and training in physical activity research and practice. *Prev Med* 2009;49:294–296.
100. Carlson SA, Brooks JD, Brown DR, Buchner DM. Community Parks: Differences in Perceived Access, Environmental Barriers to Use, and Use by Race/Ethnicity. *J Chron Dis* 2010;7:1-10.
99. Kruger J, Buchner DM, Prohaska TR. The prescribed amount of physical activity in randomized clinical trials in older adults. *Gerontologist* 2009;49(S1):S100-S107.
98. Brown DS, Finkelstein EA, Brown DR, Buchner DM, Johnson FR. Estimating older adults' preferences for walking programs via conjoint analysis. *Am J Prev Med* 2009;36(3):201-207.
97. Roux L, Pratt M, Tengs TO, Yore M, Yanagawa TL, Van Den Bos J, Rutt C, Brownson RC, Powell KE, Heath G, Kohl HW, Teutsch S, Cawley J, Lee I, West L, Buchner DM. Cost effectiveness of community-based physical activity interventions. *Am J Prev Med* 2008;35:578–588.
96. Finkelstein EA, Brown DS, Brown DR, Buchner DM. A randomized study of financial incentives to increase physical activity among sedentary older adults. *Prev Med* 2008;47:182—187.
95. Lee IM, Buchner DM. The importance of walking to public health. *Med Sci Sports Exerc* 2008;40(7 Suppl):S512-8.
94. Buchner DM, Gobster PH. Promoting active visits to parks: models and strategies for transdisciplinary collaboration. *J Phys Act Health*. 2007;4 Suppl 1:S36-49.
93. Kruger J, Carlson SA, Buchner D. How active are older Americans? *Prev Chron Dis*. 2007;4:A53.
92. Prohaska T, Belansky E, Belza B, Buchner D, Marshall V, McTigue K, Satariano W, Wilcox S. Physical activity, public health, and aging: critical issues and research priorities. *J Gerontol Soc Sci Series B* 2006;61:S267-S273.
91. Marcus BH, Williams DM, Dubbert PM, Sallis JF, King AC, Yancey AK, Franklin BA, Buchner D, Daniels SR, Claytor RP. Physical Activity Intervention Studies: What we know and what we need to know: a scientific statement from the American Heart Association Council on Nutrition, Physical Activity and Metabolism (Subcommittee on Physical Activity); Council on Cardiovascular Disease in the Young; and the Interdisciplinary Working Group on Quality of Care and Outcomes Research. *Circulation* 2006;114:2739-52.
90. Carlson SA, Kruger J, Kohl HW, Buchner DM. Cross-sectional relationship between physical activity and falls in older adults, United States 2003. *J Phys Act Health* 2006;3:390-404.
89. Vitiello MV, Moe KE, Merriam GR, Mazzone G, Buchner DM, Schwartz RS. Growth hormone releasing hormone improves cognition of healthy older adults. *Neurobiol Aging* 2006;27:318-323.
88. Zlot AI, Librett J, Buchner D, Schmid T. Environmental, transportation, social, and time barriers to physical activity. *J Phys Act Health* 2006;3:15-21.
87. Wilcox S, Dowda M, Griffin SF, Rheaume C, Ory MG, Leviton L, King AC, Dunn A, Buchner DM, Bazzarre T, Estabrooks PA, Campbell-Voytal K, Bartlett-Prescott J, Dowdy D, Castro CM, Carpenter RA, Dziewaltowski DA, Mockenhaupt R. Results of the first year of Active for Life:

- translation of 2 evidence-based physical activity programs for older adults into community settings. *Am J Public Health* 2006;96:1201-9.
86. Gray SL, LaCroix AZ, Hanlon JT, Penninx BW, Blough DK, Leveille SG, Artz MB, Guralnik JM, Buchner DM. Benzodiazepine use and physical disability in community-dwelling older adults. *J Am Geriatr Soc* 2006;54:224-30.
 85. Mampilly CM, Yore MM, Maddock JE, Nigg CR, Buchner D, Heath GW. Prevalence of physical activity levels by ethnicity among adults in Hawaii, BRFSS 2001. *Hawaii Med J* 2005;64:270-273.
 84. Cress ME, Buchner DM, Prohaska T, Rimmer J, Brown M, Macera C, Dipietro L, Chodzko-Zajko W. Best practices for physical activity programs and behavior counseling in older adult populations. *Med Sci Sports Exercise* 2004;36:1997-2003.
 83. Wang G, Macera CA, Scudder-Soucie B, Schmid T, Pratt M, Buchner D. A cost-benefit analysis of physical activity using bike/pedestrian trails. *Health Promot Pract* 2005;6:174-179.
 82. Tencer AF, Koepsell TD, Wolf ME, Frankenfeld CL, Buchner DM, Kukull WA, LaCroix AZ, Larson EB, Tautvydas M. Biomechanical properties of shoes and risk of falls in older adults. *J Am Geriatr Soc*. 2004;52:1840-6.
 81. Koepsell TD, Wolf ME, Buchner DM, Kukull WA, LaCroix AZ, Tencer AF, Frankenfeld CL, Tautvydas M, Larson EB. Footwear style and risk of falls in older adults. *J Am Geriatr Soc* 2004;52:1495-501.
 80. Teri L, Gibbons LE, McCurry SM, Logdson RG, Buchner DM, Barlow WE, Kukull WA, LaCroix AZ, McCormick W, Larson EB. Exercise plus behavioral management in patients with Alzheimer disease: a randomized controlled trial. *JAMA* 2003;290:2015-22.
 79. Nelson ME, Layne JE, Bernstein MJ, Nuernberger A, Castaneda C, Kaliton D, Hausdorff J, Judge JO, Buchner DM, Roubenoff R, Fiatarone Singh MA. The effects of multidimensional home-based exercise on functional performance in elderly people. *J Gerontol Series A* 2004;59:154-60.
 78. Wang G, Macera CA, Scudder-Soucie B, Schmid T, Pratt M, Buchner DM. Cost effectiveness of a bicycle trail development in health promotion. *Prev Med* 2004;38:237-242.
 77. Wang G, Macera CA, Pratt M, Heath G, Buchner DM. Cost analysis of the built environment: the case of bike and pedestrian trails in Lincoln, Neb. *Am J Public Health* 2004;94:549-53.
 76. Kruger J, Brown DR, Galuska D, Buchner D. Strength training among adults aged ≥ 65 years – United States, 2001. *MMWR* 2004;53:25-28.
 75. Steele BG, Belza B, Hunziker J, Holt L, Legro M, Coppersmith J, Buchner D, Lakshminaryan S. Monitoring daily activity during pulmonary rehabilitation using a triaxial accelerometer. *J Cardiopulm Rehabil* 2003;23:139-42.
 74. Gray SL, Penninx BW, Blough DK, Artz MB, Guralnik JM, Wallace RB, Buchner DM, LaCroix AZ. Benzodiazepine use and physical performance in community-dwelling older women. *J Am Geriatr Soc* 2003;51:1563-1570.
 73. Gray SL, Eggen AE, Blough D, Buchner D, LaCroix AZ. Benzodiazepine use in older adults enrolled in a health maintenance organization. *Am J Geriatr Psych* 2003;11:568-576.
 72. Macera CA, Jones DA, Yore MM, Ham SA, Kohl HW, Kimsey CD, Buchner D. Prevalence of physical activity, including lifestyle activities among adults—United States, 2000-2001. *MMWR* 2003;52:764-769.
 71. Thompson PD, Buchner D, Pina IL, Balady GJ, Williams MA, Marcus BH, Berra K, Blair SN, Costa F, Franklin B, Fletcher GF, Gordon NF, Pate RR, Rodriguez BL, Yancey AK, Wenger NK. Exercise and physical activity in the prevention and treatment of atherosclerotic cardiovascular disease: a statement from the Council on Clinical Cardiology (Subcommittee on Exercise, Rehabilitation, and Prevention) and the Council on Nutrition, Physical Activity, and Metabolism (Subcommittee on Physical Activity). *Circulation* 2003;107:3109-3116.

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69. Bernstein A, Nelson ME, Tucker KL, Layne J, Johnson E, Nuernberger A, Castaneda C, Judge JO, Buchner D, Singh MF. A home-based nutrition intervention to increase consumption of fruits, vegetables, and calcium-rich foods in community dwelling elders. *J Am Dietetic Assoc* 2002;102:1421-1427.
68. Ory MG, Lipman PD, Karlen PL, Gerety MB, Stevens VJ, Singh MA, Buchner DM, Schechtman KB. Recruitment of older participants in frailty/injury prevention studies. *Prev Sci* 2002;3:1-22.
67. Gray SL, LaCroix AZ, Blough D, Wagner EH, Koepsell TD, Buchner D. Is the use of benzodiazepines associated with incident disability? *J Am Geriatr Soc* 2002;50:1012-1018.
66. Wang G, Zheng ZJ, Heath G, Macera C, Pratt M, Buchner D. Economic burden of cardiovascular disease associated with excess body weight in U.S. adults. *Am J Prev Med* 2002;23:1-6.
65. Belza B, Steele BG, Hunziker J, Lakshminaryan S, Holt L, Buchner DM. Correlates of physical activity in chronic obstructive pulmonary disease. *Nursing Res* 2001;50:195-202.
64. Robertson MC, Devlin N, Scuffham P, Gardner MM, Buchner DM, Campbell AJ. Economic evaluation of a community based exercise programme to prevent falls. *J Epidemiol Community Health* 2001;55:600-606.
63. Gardner MM, Buchner DM, Robertson MC, Campbell AJ. Practical implementation of an exercise-based falls prevention programme. *Age Ageing* 2001;30:77-83.
62. Norris SL, Grothaus LC, Buchner DM, Pratt M. Effectiveness of physician-based assessment and counseling for exercise in a staff model HMO. *Prev Med* 2000;30:513-523.
61. Steele BG, Holt L, Belza B, Ferris S, Lakshminaryan S, Buchner DM. Quantitating physical activity in COPD using a triaxial accelerometer. *Chest* 2000;117:1359-1367.
60. Lamb SE, Guralnik JM, Buchner DM, Ferrucci LM, Hochberg MC, Simonsick EM, Fried LP. Factors that modify the association between knee pain and mobility limitation in older women: the Women's Health and Aging Study. *Ann Rheum Dis* 2000;59:331-7.
59. Campbell AJ, Robertson MC, Gardner MM, Norton RN, Buchner DM. Falls prevention over 2 years: a randomized controlled trial in women 80 years and older. *Age Ageing* 1999;28:513-8.
58. Campbell, AJ, Robertson, MC, Gardner MM, Norton RN, Buchner DM. Psychotropic medication withdrawal and a home-based exercise program to prevent falls: a randomized, controlled trial. *J Am Geriatr Soc* 1999;47:850-853.
57. Eckstrom E, Hickam DH, Lessler DS, Buchner DM. Changing physician practice of physical activity counseling. *J Gen Intern Med* 1999;14:376-378
56. Cress ME, Buchner DM, Questad KA, Esselman PC, de Lateur BJ, Schwartz RS. Exercise: Effects on physical functional performance in independent older adults. *J Gerontol Med Sci Series A* 1999;54:M242-M248.
55. King AC, Rejeski WJ, Buchner DM. Physical activity interventions targeting older adults: a critical review and recommendations. *Am J Prev Med* 1998;15:316-333.
54. Merriam GR, Buchner DM, Prinz PN, Schwartz RS, Vitiello MV. Potential applications of GH secretagogues in the evaluation and treatment of the age-related decline in growth hormone secretion. *Endocrine* 1997;7:49-52.
53. Buchner DM. Preserving mobility in older adults. *West J Med* 1997; 167:258-264.
52. Coleman EA, Wagner EH, Grothaus LC, Hecht J, Savarino J, Buchner DM. Predicting hospitalization and functional decline in older adult health plan enrollees: are administrative data as accurate as self-report? *J Am Geriatr Soc* 1998;46:419-425.
51. Teri L, Mc Curry SM, Buchner DM, Logsdon RG, LaCroix AZ, Kukull WA, Barlow WE, Larson EB. Exercise and activity level in Alzheimer's disease: a potential treatment focus. *J Rehabil Res Develop* 1998;35:411-419.

50. Wallace JI, Buchner DM, Grothaus L, Leveille S, LaCroix AZ, Wagner EH. Implementation and effectiveness of a community-based health promotion program for older adults. *J Gerontol.* 1998;53A: M301-306.
49. Campbell AJ, Robertson MC, Gardner MM, Norton RN, Tilyard MW, Buchner DM. Randomised controlled trial of a general practice programme of home based exercise to prevent falls in elderly women. *BMJ.* 1997;315:1065-1069.
48. Leveille SG, LaCroix AZ, Koepsell TD, Beresford SA, Van Belle G, Buchner DM. Dietary vitamin C and bone mineral density in postmenopausal women in Washington State, USA. *J Epidemiol Community Health* 1997;51:479-485.
47. Coleman EA, Tyll L, LaCroix AZ, Allen C, Leveille SG, Wallace JI, Buchner DM, Grothaus LC, Wagner EH. Recruiting African-American older adults for a community-based health promotion intervention: which strategies are effective?. *Am J Prev Med* 1997; 13(6 suppl):51-56.
46. Leveille SG, LaCroix AZ, Koepsell TD, Beresford S, Van Belle G, Buchner DM. Do dietary antioxidants prevent postmenopausal bone loss? *Nutrition Res* 1997;17:1261-1269.
45. Buchner DM, Nicola RM, Martin ML, Patrick DL. Physical activity and health promotion for older adults in public housing. *Am J Prev Med* 1997; 13(6 suppl):57-62.
44. Schechtman KB, Kutner NG, Wallace RB, Buchner DM, Ory MG. Gender, self-reported depressive symptoms, and sleep disturbance among older community-dwelling persons. *J Psychosomatic Res* 1997; 43:513-527.
43. Buchner DM, Cress ME, de Lateur BJ, Esselman PC, Margherita AJ, Price R, Wagner EH. A comparison of the effects of three types of endurance training on balance and other fall risk factors in older adults. *Aging Clin Exp Res.* 1997;9:112-119.
42. Campbell AJ, Buchner DM. Unstable disability and the fluctuations of frailty. *Age Ageing* 1997 26:315-318.
41. Ferrucci L, Guralnik JM, Buchner DM, Kasper J, Lamb SE, Simonsick EM, Corti MC, Bandeen-Roche, K, Fried L. Departures from linearity in the relationship between measures of muscular strength and physical performance of the lower extremities: The Womens Health and Aging Study. *J Gerontol Series A* 1997 52: M275-M285.
40. Buchner DM, Cress ME, de Lateur BJ, Esselman PC, Margherita AJ, Price R, Wagner EH. The effect of strength and endurance training on gait, balance, fall risk, and health services use in community-living older adults. *J Gerontol Series A* 1997;52:M218-M224.
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38. Buchner DM, Cress ME, Esselman PC, Margherita AJ, de Lateur BJ, Campbell AJ, Wagner EH. Factors associated with changes in gait speed in older adults. *J Gerontol Series A* 1996;51: M297-M302.
37. Cress ME, Buchner DM, Questad KA, Esselman PC, de Lateur BJ, Schwartz RS. Continuous-scale physical functional performance in a broad range of older adults: a validation study. *Arch Phys Med Rehabil* 1996;77:1243-1250.
36. Buchner DM, Larson EB, Wagner EH, Koepsell TD, de Lateur BJ. Evidence for a non-linear relationship between leg strength and gait speed. *Age Ageing* 1996;25:386-391.
35. Coleman EA, Buchner DM, Cress ME, Chan BK, de Lateur BJ. The relationship of joint symptoms with exercise performance in older adults. *J Am Geriatr Soc* 1996;44:14-21.
34. Rossiter-Fornoff JE, Wolf SL, Wolfson LI, Buchner DM. A cross-sectional validation study of the FICSIT common data base static balance measures. Frailty and Injuries: Cooperative Studies of Intervention Techniques. *J Gerontol Series A* 1995;50:M291-M297.
33. Pate RR, Pratt M, Blair SN, Haskell WL, Macera CA, Bouchard C, Buchner D, Ettinger W, Heath GW, King AC, Kriska A, Leon AS, Marcus BH, Morris J, Paffenbarger RS, Patrick K, Pollock ML, Rippe JM, Sallis J, Wilmore JH. Physical activity and public health. A recommendation

- from the Centers for Disease Control and Prevention and the American College of Sports Medicine. *JAMA* 1995;273:402-407.
32. Cress ME, Schechtman KB, Mulrow CD, Fiatarone M, A Gerety MB, Buchner DM. Relationship between physical performance and self-perceived physical function. *J Am Geriatr Soc* 1995; 43:93-101.
 31. Alexander EM, Wagner EH, Buchner DM, Cain KC, Larson EB. Do surgical brain lesions present as isolated dementia? A population-based study. *J Am Geriatr Soc* 1995;43:138-143.
 30. Hedrick SC, Rubenstein LZ, Wieland D, Buchner DM, Reuben DB, Ehreth JL. Effectiveness of geriatric evaluation and management: design of a study. *Aging Clin Exp Res* 1995;7:237-239.
 29. Morris-Chatta R, Buchner DM, de Lateur BJ, Cress ME, Wagner EH. Isokinetic testing of ankle strength in older adults: assessment of inter-rater reliability and of stability of strength over six months. *Arch Phys Med Rehabil* 1994;75:1213-1216.
 28. Wieland D, Hedrick SC, Rubenstein LZ, Buchner DM, Reuben DB, Harker JO. Inpatient geriatric evaluation and management units: organization and care patterns in the Department of Veterans Affairs. *Gerontologist* 1994;34: 652-657.
 27. Wagner EH, LaCroix AZ, Grothaus L, Leveille SG, Hecht JA, Artz K, Odle K, Buchner DM. Preventing disability and falls in older adults: a population-based randomized trial. *Am J Public Health* 1994;84:1800-1806.
 26. Leveille SG, Buchner DM, Koepsell TD, McCloskey LW, Wolf ME, Wagner EH. Psychoactive medications and injurious motor vehicle collisions involving older drivers. *Epidemiology* 1994;5:591-598.
 25. McCloskey LW, Koepsell TD, Wolf ME, Buchner DM. Motor vehicle collision injuries and sensory impairments in older drivers. *Age Ageing* 1994; 23:267-273.
 24. Wieland D, Rubenstein LZ, Hedrick S, Reuben D, Buchner DM. Inpatient geriatric evaluation and management units (GEMs) in the Veterans Health System: diamonds in the rough? *J Gerontol* 1994;49:M195-M200.
 23. Koepsell TD, Wolf ME, McCloskey LW, Buchner DM, Louie D, Wagner EH. Medical conditions and motor vehicle collision injuries in older adults. *J Am Geriatr Soc* 1994; 42:695-700.
 22. Buchner DM. Understanding variability in studies of strength training in older adults: a meta-analytic perspective. *Topic Geriatr Rehabil* 1993;8:1-21.
 21. Buchner DM, Hornbrook MC, Kutner NG, Tinetti ME, et al. Development of the common database for the FICSIT trials. *J Am Geriatr Soc* 1993;41: 297-308.
 20. Buchner DM, Cress ME, Wagner EH, de Lateur BJ, Price R, Abrass IB. The Seattle FICSIT study: the effect of exercise on gait and balance in older adults. *J Am Geriatr Soc* 1993;41:321-325.
 19. Buchner DM, Cress ME, de Lateur BJ, Wagner EH. Variability in the effect of strength training on skeletal muscle strength in older adults. *Facts Res Gerontol* 1993; 7: 143-153.
 18. Wagner EH, LaCroix AZ, Buchner DM, Larson EB. Effects of physical activity on health status in older adults I: observational studies. *Annu Rev Public Health* 1992;13:451-68.
 17. Buchner DM, Beresford SA, Larson EB, LaCroix AZ, Wagner EH. Effects of physical activity on health status in older adults II: Intervention studies. *Annu Rev Public Health* 1992;13:469-488.
 16. Brawer MK, Chetner MP, Beatie J, Buchner DM, Vesella RL, Lange PH. Screening for prostatic carcinoma with prostate specific antigen. *J Urology* 1992;147:841-845.
 15. Buchner DM, de Lateur BJ. The importance of skeletal muscle strength to physical function in older adults. *Ann Behav Med* 1991;13:91-98.
 14. Reed RL, Pearlman RA, Buchner DM. Risk factors for early unplanned readmission in elderly veterans. *J Gen Intern Med* 1991;6:223-228.
 13. Buchner DM, Findley TW. Research in Physical Medicine and Rehabilitation. VII. Preliminary Data Analysis. *Am J Phys Med Rehabil* 1990;69:154-169.
 12. Plastino R, Buchner DM, Wagner EH. The impact of eligibility criteria on phototherapy program size and cost. *Pediatrics* 1990;85:796-800.

11. Ko GN, Zhang LD, Yan WW, Buchner DM, Xia ZY, Jeste DV. The Shanghai 800: prevalence of tardive dyskinesia in a Chinese psychiatric hospital. *Am J Psychiatry* 1989;146:387-389.
10. Buchner DM, Pearson DC. Factors associated with participation in a community senior health promotion program: a pilot study. *Am J Public Health* 1989;79:775-777.
9. Buchner DM, Larson EB. Transfer bias and the association of cognitive impairment with falls. *J Gen Intern Med* 1988;3:254-259.
8. Krenz C, Larson EB, Buchner DM, Canfield CG. Characterizing patient dysfunction in Alzheimer's-Type Dementia. *Med Care* 1988;26:453-461.
7. McQuade KJ, Turner JA, Buchner DM. Physical fitness and chronic low back pain. *Clin Orthop Rel Res* 1988;233:198-204.
6. Larson EB, Kukull WA, Buchner DM, Reifler BV. Adverse drug reactions associated with global cognitive impairment in elderly persons. *Ann Intern Med* 1987;107:169-173.
5. Buchner DM, Larson EB, White RF. Influenza vaccination in community elderly. A controlled trial of postcard reminders. *J Am Geriatr Soc* 1987;35:755-760.
4. Buchner DM, Larson EB. Falls and fractures in patients with Alzheimer-type Dementia. *JAMA* 1987;257:1492-1495.
3. Uhlmann RF, Larson EB, Buchner DM. Correlations of Mini-Mental State and Modified Dementia Rating Scale to measures of transitional health status in dementia. *J Gerontol* 1987;42:33-36.
2. Buchner DM, Carter WB, Inui TS. The relationship of attitude changes to compliance with influenza immunization: A prospective study. *Med Care* 1985;23:771-779.
1. Lehman GL, Buchner DM, Lappas JC. Anatomical extent of fiberoptic sigmoidoscopy. *Gastroenterology* 1983;84:803-8.

Other Published Scholarly Papers / Books / Conference Proceedings

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Research Grants and Other Funded Grants

Funded and Unfunded Projects at University of Illinois:

Objective Physical Activity and Cardiovascular Health in Women Aged 80 and Older (OPACH80);

Role: Co-PI of grant, and PI of the University of Illinois Urbana – Champaign Subaward. Total Costs: funding decision pending. This project would add objective measures of physical activity to parts of the cohort studies of the longstanding Women's Health Initiative.

Adult Physical Activity and Cardiovascular Health. Role: Consultant. Total Costs: funding decision pending. Description: this project would add objective measures of physical activity to the longstanding ARIC (Atherosclerosis Risk in Communities) cohort study.

MIPARC: Multilevel Intervention for Physical Activity in Retirement Communities. Role: consultant. Status: Funded by National Institute on Aging to U.C. San Diego (April, 2010 to April 2014). Description: this project conducts a randomization trial of an intervention to promote physical activity in residents of retirement communities.

A Randomized Trial of Economic Incentives to Promote Walking for Physical Activity. Role: co-investigator. Total costs: funding decision pending by government of Singapore. Description. This project will conduct a trial of economic incentives to promote walking in older adults.

UIUC Community Health Informatics Project. Role: co-investigator. Dates: Jan 2010 to Dec 2010; Funding Agency: UIUC Public Engagement Office. Total Costs \$20,000. Description: this project enhances public health surveillance in Champaign County, IL, and provides funding for MPH practicum experiences.

Focal Point Proposal: The Built Environment and Health. Role: collaborator. Total Costs: funding decision pending by Graduate College of University of Illinois. Description: this project would develop an interdisciplinary seminar on the built environment and health, and result in an IGERT proposal to NSF for funding of graduate level training in this area.

Rural and Underserved – Action in the Community to Increase Vitality and Exercise. Role: co-investigator. Status. A one-time submission not funded by an ARRA (“stimulus funding”) RFA. Description. This project proposed to increase physical activity in low-income rural communities of Illinois using a community participatory research model.

Career Development K Award. PI: Shevon Harvey. Status: to be submitted. Role: co-mentor.

Funded Research Projects at CDC:

Measurement of the Value of Exercise (Project MOVE). Role: Co-investigator; Dates: 1/15/2003-9/30/2006; Funding Agency: Robert Wood Johnson Foundation. Total Costs \$700,000. Description. This study estimated the cost-effectiveness of implementing community interventions to promote physical activity, and developed methods of Health Impact Assessment to allow communities to assess health impacts of implementing policy and environmental changes related to physical activity.

Economic Evaluation of Walking Behavior in Sedentary Adults Age 50 and Older. Role: Co-investigator. Dates: 10/1/2003 - 9/30/2007. Funding Agency: CDC. Total Costs ~\$500,000. Description. This study estimates the elasticity of demand for walking, by exploring the relationship between economic and other incentives to accumulate “aerobic steps” on a pedometer versus actual number of steps. This project is funded as a contract to Research Triangle Institute by CDC, with Eric Finklestein as PI for the contractor.

Previously Funded Research Projects @ University of Washington

Case Control Study of Footwear and Falls in Older Adults. Role: Co-investigator; Dates: 9/15/97-8/31/00; Funding Agency: NIA; ID#: 1 R01 AG13793-01A1; Direct Costs 1997-98: \$230826;

1998-99: \$284,957; 1999-00: \$285,274; Description. A case control study of how shoe characteristics and surface features influence risk of falls in older adults, nested in a cohort study of risk factors for cognitive decline in non-demented community older adults.

Objective Measurement of Daily Activity in COPD: A Pilot Study. Role: Co-investigator and Mentor for the PI.; Dates: Jan 1, 1997 - Dec 31, 1998; Funding Agency: VA HSR&D Service; Funding Agency ID#: NRI #95-082. Direct Costs (1997-1998): \$216,000. Description. This pilot study assesses the potential usefulness of a physical activity monitor in determining adequacy of adherence to pulmonary rehabilitation. PI= Bonnie Steele, PhD, R.N.

Seattle Housing Authority (SHA) Study. Role: Principal Investigator; Dates: September 15, 1993 to September 14, 1998; Funding Agency: CDC; Funding Agency ID No.: R48/CCR002181; Direct Costs (1993-98): \$600,000. Description: This five year grant is part of the CDC grant that funds the UW Center for Health Promotion in Older Adults (HPOA). It studies how to implement exercise programs and nutritional interventions in low-income senior housing facilities.

Senior Center Demonstration Project (WISE). Role: Co-investigator; Dates: September 15, 1993 to September 14, 1998; Funding Agency: CDC; Funding Agency ID No.: R48/CCR002181; Direct Costs (1993-98): \$850,000. Description: This five year grant is part of the CDC grant that funds the UW Center for Health Promotion in Older Adults (HPOA). It is a randomized controlled trial of a multiple risk factor health promotion intervention in Seattle area senior centers. Project PI = Edward Wagner, M.D.

Growth Factors and Exercise in Older Women. Role: Co-Principal Investigator; Dates: July 1, 1992 - June 30, 1997; Funding Agency: NIA; Funding Agency ID No.: 1-RO1-AG10943-01; Direct Costs (1992-97): \$1,189,327. Description: This five year grant studies the individual and additive effects of human growth hormone releasing factor and exercise on physiologic and functional status outcomes in older women.

Case Control Study of Older Adult Pedestrian Injury Sites. Role: Co-investigator (PI=Tom Koepsell, M.D.); Dates: October 1, 1994 - Sept 30, 1998; Funding Agency: NIA; Funding Agency ID No.: AG10147-01A2; Direct Costs (1994-1998): \$1,375,382; Description: This case-control study will identify characteristics of intersections that increase the risk of a pedestrian-motor vehicle collision.

Effectiveness of Geriatric Evaluation and Management. Role: Co-Investigator; Dates: October 1, 1992 - September 30, 1995; Funding Agency: Department of Veterans Affairs, Cooperative Studies in Health Services; Funding Agency ID No.: CSHS #012; Direct Costs (1992-97): \$4,173,918; Description: This study was originally funded as a 6+ year multi-center study (10 sites) of the effectiveness of geriatric evaluation and management (GEM) units in the DVA system, but only 1.5 years of work will be funded. The PI's are Susan Hedrick (Seattle) and Larry Rubenstein (Sepulveda).

Physical Functional Performance in Older Adults. Role: Co-investigator; Dates: April 1, 1992 - March 31, 1998; Funding Agency: NIA; Funding Agency ID No.: IR29 AG10267-01; Direct Costs (1992-97): \$350,000; Description: This project is a First Award training grant, that provides salary support to the Principal Investigator, M. Elaine Cress, Ph.D. The grant will develop a new physical performance measure of physical functional status, and validate the measure in part by doing an exercise trial.

FICSIT Collaborative Analysis. Role: Principal Investigator; Dates: July 1, 1993 to June 30, 1994; Funding Agency: NIA; Funding Agency ID No.: 2U01 AG09095-04; Direct Costs (1993-94): \$78,268; Description: This one year grants completes collaborative analysis of the common data collected by the eight national FICSIT sites.

Seattle FICSIT Study Analysis. Role: Principal Investigator; Dates: July 1, 1993 to June 30, 1993; Funding Agency: NIA; Funding Agency ID No.: 3U01 AG09095-04S1; Direct Costs (1993-94): \$48,059; Description: This one year grants completes the data analysis for the Seattle FICSIT site.

Health Status Effects of Endurance and Strength Training. Role: Principal Investigator; Dates: April 1, 1990 - February, 28, 1993; Funding Agency: NIA; Funding Agency ID No.: U01/AG09095; Direct Costs (1990-93): \$829,455; Description: This project studied whether endurance and strength training increases the health status of older adults. It was funded as part of a special NIA initiative on research to prevent or reverse frail health.

Effects of Movement During Exercise on Gait and Balance (Move-IT). Role: Principal Investigator; Dates: October 1, 1990 - September 30, 1993; Funding Agency: Centers for Disease Control (CDC); Funding Agency ID No.: R48/CCR002181; Direct Costs (1990-93): \$725,000; Description: This project is funded as part of the UW grant for a Center for Health Promotion and Disease Prevention in the Elderly.

Leg Strength and Falls in Older People. Role: Principal Investigator; Dates: September 1, 1986 - August 30, 1989; Funding Agency: NIA; Funding Agency ID No.: ? ; Direct Costs (1986-89): \$509,200; Description: This project studied the relationship between leg strength and falls, with particular emphasis on accumulation of the data necessary to design and implement a randomized controlled trial of exercise to prevent falls.

Case Control Analysis of Hip Fractures. Role: Principal Investigator; Dates: October 1, 1986 - September 30, 1990; Funding Agency: CDC; Funding Agency ID No.: R48/CCR002181; Direct Costs (1986-90): \$550,000; Description: This project was the principal epidemiologic study funded as part of the grant for the UW Center for Health Promotion and Disease in Older Adults, when the Center was first funded in 1986.

Teaching

Previously Funded Fellowship Training Grants @ University of Washington

University of Washington Robert Wood Johnson Clinical Scholars Program. Role: Program Faculty; Dates: July 1, 1995 - June 30, 1999; Funding Agency: Robert Wood Johnson Foundation; Funding Agency ID No.: RWJF #10026; Direct Costs (1995-1998): \$1,102,184; Co-PI's: Richard Deyo, M.D., Tom Koepsell, M.D.; Description: This grant provided the funds for the RWJ CSP fellowship program. Dr. Buchner was involved in both the teaching and research activities of the program from 1985-1999.

NRSA for Research and Training in Primary Medical Care. Role: Program Faculty; Dates: July 1, 1992 - June 30, 1997; Funding Agency: AHCPR; Direct costs (1992-97): \$1,416,994; PI: Eric Larson, M.D.; Description: This grant prepared primary care physicians for careers in research and academic medicine.

Health Services Research Training Program. Role: Program Faculty; Dates: July 1, 1994 - June 30, 1999; Funding Agency: AHCPR; Funding Agency ID: H500034; Direct Costs (1994-1999): \$1,238,574; PI: Ed Perrin, Ph.D.; Description: This grant provided health services research training for physicians and scientists pursuing a career in health services research.

VA HSR&D Fellowship. Role: Program Faculty; Dates: July 1, 1990-June 30, 1997; Funding Agency: Office of Academic Affairs, DVA; Annual direct costs: \$157,000; PI: Steve Fihn, M.D.; Description: This grant provided health services research training for physicians pursuing a career in academic medicine involving health services research.

VA Ambulatory Care Fellowship. Role: Program Faculty; Dates: July 1, 1991-June 30, 1997; Funding Agency: Office of Academic Affairs, DVA; Annual direct costs: \$157,000; PI: Steve Fihn, M.D.; Description: This grant provided health services research training for primary care physicians pursuing a career in academic medicine.

VA HSR&D PhD Postdoctoral Fellowship. Role: Program Faculty; Dates: July 1, 1993-June 30, 1997; Funding Agency: Office of Academic Affairs, DVA; Annual direct costs: \$87,000; PI: Steve Fihn, M.D.; Description: This grant provided health services research training for new Ph.D. scientists.

Teaching and Student Advising (University of Illinois)

2009 – 2010

CHLH 594. Seminar: Themes in Public Health. (one credit seminar required in the first semester of the MPH program.)

CHLH 594 Chronic Disease Prevention and Control. (four credit course required in the second semester of the MPH program)

CHLH 593 Independent Study (3 credit course for two MPH students as a substitute for a required MPH course the students had already taken as undergraduates)

KIN 150 Bioscience of Human Movement. Guest lecture.

I-Health Guest lecture in first year introductory course in interdisciplinary health curriculum.

2008-2009

CHLH 593 Independent Study (4 credit course on obesity prevention and control for a Medical Scholars student)

Student Advising

Academic advisor for 6 MPH students (2009-2010)

Member, dissertation committee for Tracy Flood Bramal (MD PhD candidate in Kinesiology)

Member, dissertation committee for Bhishha Das (PhD candidate in Kinesiology)

University Service (University of Illinois)

- 2008 – 2009 Member, Promotion and Tenure Committee, Department of Kinesiology and Committee Health
- 2008 – 2009 Chair, Search Committee, Department of Kinesiology and Committee Health (Associate Professor/Full Professor Position in MPH program)
- 2008 – 2009 Chair, Search Committee, Department of Kinesiology and Committee Health (Assistant Professor position in MPH program)
- 2009 – 2010 Chair, Search Committee, Department of Kinesiology and Committee Health (Assistant Professor position in MPH program; search cancelled due to hiring freeze)
- 2009 – 2010 Member, Administrative Council of College of Applied Health Sciences
- 2008 – present Member, Faculty Excellence Review Committee, Campus-wide committee reporting to the Provost.
- 2009 – present Chair, Promotion and Tenure Committee, College of Applied Health Sciences
- 2009 – present Member, Campus wide Health and Wellness Initiative Committee
- 2009 – present Member, Advisory Committee, Department of Kinesiology and Community Health
- 2009 – present Member, Associate Heads Committee, Department of Kinesiology and Community Health

Selected Public Health Practice Activities & Community Service

- 2007-present Member, ACSM/NIH Steering Committee for Joint Conference on Research in Physical Activity and Health.
- 2009-present Member, IPHA chronic disease advisory committee.
- 1996-present Member, Steering Committee for the USC/CDC Physical Activity and Public Health Research Course
- 2007-present Member, Coordinating Committee, National Physical Activity Plan(National Plan launched 3 May 2010).
- 2009-present Member, World Health Organization Guideline Group on Physical Activity for Health.
- 2007-2008 Chair, Writing Group for the *2008 Physical Activity Guidelines for Americans*.
- 2004-2008 Member, National Park System Advisory Board, Committee on Health and Recreation
- 2001-2008 Member, Geriatric Measurement Advisory Panel, National Committee on Quality Assurance (NCQA).
- 2001-2008 Member, Public Health and Recreation Federal Task Force (this task force is organized under a Memorandum of Understanding signed by the Secretaries of the Department of Health & Human Services, Department of the Interior, Department of the Army, Department of Transportation, and USDA.)
- 2000-2008 Member, Active Aging Partnership (CDC, AARP, National Council on Aging, Robert Wood Johnson Foundation, American College of Sports Medicine, American Geriatric Society, and National Institute on Aging).
- 1999-2008 Ex-Officio Member, Leadership Team, Washington State Coalition to Promote Physical Activity
- 1996-2002 Advisor to EnhanceFitness (originally Lifetime Fitness) program. I co-designed and evaluated an exercise program for older adults in 1993-96. Senior Services of Seattle/King County decided to franchise and disseminate the program, originally under the name “Lifetime Fitness” and now under the name “EnhanceFitness.” The program has won several awards. A list of the sites around the world who have adopted the program is provided at: <http://www.projectenhance.org/pro/fitness-locations.html>.
- 2002-2004 Member, Academic Advisory Committee, Pfizer/AGS Junior Faculty Scholars Program

- 2002-2005 Member, American College of Sports Medicine, Committee on Best Practices for Physical Activity in Older Adults
- 1998 Advisor to the Washington State Department of Transportation Task Force (focus of task forces was to reduce pedestrian motor vehicle collisions).
- 1998-1999 Member, Advisory Committee, Washington State Department of Health, Preventive Block Grant Program
- 1998 Participant in Attorney General's Task Force advising Washington State Attorney General on Tobacco Policy and Control, and contributor to the report "A Comprehensive Tobacco Prevention and Control Plan for Washington State."
- 1998-99 Member, Leadership Team, Washington State Coalition to Promote Physical Activity
- 1997-99 Member, Washington State Department of Health Physical Activity Workgroup
- 1997 Article for *Northwest Prime Time* Newspaper on strength training in older adults.
- 1997 Consultant to Lifespan Project, Cal State Fullerton, which developed a fitness assessment for older adults.
- 1997 Presentations on fall injuries at Boise, Spokane, and Missoula as part of Northwest Geriatric Education Center outreach to WAMI region.
- 1997 Presentation on fall injuries at a meeting of the Central Region, Emergency Medical Services and Trauma Care Council
- 1997 Presentation at Southeast Senior Center, Seattle, on falls and osteoporosis.
- 1997 Provided draft to World Health Organization of geriatric assessment policy.
- 1996-99 Consultant to Washington State Department of Health on physical activity promotion in Washington State
- 1996 Presentation at Washington State Board of Health on physical activity and falls in older adults.
- 1996-1997 Consultant to the National Institute on Aging (NIA) to develop "Exercise: A Guide from the National Institute on Aging."
- 1996 Consultant to the American Academy of Orthopedic Surgeons (AAOS) on physical activity promotion in adults with orthopedic problems.
- 1996 Consultant to the American Medical Association (AMA) to develop a brochure to help physicians promote physical activity.
- 1994-95 Consultant to PRO-West (Seattle) on hip fracture study.
- 1993 Article on exercise in older adults for *Prime Time* newspaper.
- 1992 Article on falls in older adults for *Prime Time* newspaper.
- 1991 Contribution to *The Brown University Long-Term Care Letter*, Vol 3, No. 15, August 14, 1991; Interviewed for an article on Strength training, mobility and falls.
- 1990-91 Presentations on falls in older adults to Group Health Enrollees, Horizon House residents, and UW Retirement Association.
- 1988 Article on falls in older adults for Health Affairs report, University of Washington Retirement Office.
- 1984 - 86 Consultant, Division on Aging, State of Washington Department of Social & Health Services (provided input into implementation of Healthy Older People Program).
- 1984 - 86 Consultant, Columbia Lutheran Home (provided assistance in evaluating a nursing home care plan).
- 1982 - 84 Speaker, American Lung Association, (anti-smoking talks presented to Seattle School System).

Selected Invitations to Participate in National/International Conferences

4th Australian and New Zealand Falls Prevention Society Conference. Invited keynote presentation on physical activity and prevention of falls (Dunedin, New Zealand; November, 2010)

- Physical Activity and Public Health Course.** Invited presentations on physical activity in older adults and on research designs. (Sponsored by CDC and the University of South Carolina Prevention Research Center)(Located either in Hilton Head, South Carolina or Park City, Utah; every September from 1995 through present)
- American College of Sports Medicine and Exercise is Medicine World Congress.** Invited presentation as part of symposium on Office-based Physical Activity Promotion (Baltimore; June, 2010).
- American Geriatrics Society, Geriatrics Review Syllabus.** Invited presentation on physical activity in older adults disseminated by audiotape (April, 2010).
- Center for Health Aging and Disability (CHAD) annual meeting.** Invited presentation on social determinants of health (Champaign, IL; April, 2010).
- AAHPERD annual meeting.** R.Tait McKenzie Memorial Lecture. (Indianapolis; March, 2010)
- Illinois Public Health Association Summit.** Invited presentation on chronic disease prevention (Springfield, IL; March 2010)
- Gerontologic Society of America, Annual Meeting.** Invited presentation as part of Presidential Symposium on Prevention (November, 2009).
- National Meeting on Physical Activity Guidelines, United Kingdom.** Invited presentations on physical activity guidelines in older adults, and on the process for developing and disseminating physical activity guidelines in the USA.
- Osteoarthritis Summit (National Osteoarthritis Foundation and CDC).** Invited presentation on a public health national plan for osteoarthritis (Washington, DC: April, 2009).
- Carle Medical Center Grand Rounds.** Invited presentation on physical activity guidelines (Champaign, IL: March, 2009).
- VA National Center for Health Promotion and Disease Prevention (NCP).** Invited teleconference presentation on 2008 Physical Activity Guidelines for Americans (January, 2009).
- Joint NIH/ACSM meeting on Research in Physical Activity. Invited presentation on research gaps identified in the evidence review for the 2008 Physical Activity Guidelines for Americans (Bethesda MD; October, 2008)**
- Joint Commission on Sports Medicine and Science.** Invited keynote presentation on 2008 Physical Activity Guidelines for Americans (Kansas City, Mo; February 2009)
- 5th Annual Rural Public Health Institute (Illinois).** Invited presentation on obesity prevention (Effingham, IL; April 2009).
- Be Active Australia.** Invited keynote presentation on physical activity in older adults (Adelaide, Australia, Oct 2007)
- CDC/IUHPE International Physical Activity and Public Health Course.** Invited speaker on environmental and policy interventions to promote physical activity. (Sponsored by CDC and IUHPE; San Jose, Costa Rica; June 2005).
- Washington Coalition to Promote Physical Activity Annual Meeting.** Invited talk on environmental and policy approaches to promoting physical activity. (Seattle, WA; Dec, 2005 and April 2007)
- Evidence-Based Prevention.** Invited speaker on evidence-based physical activity programs in older adults (Sponsored by Agency for Health Research and Quality; Nov 2004 in Chicago IL; repeated Oct 2005 in Atlanta GA)
- Walking for Health: Measurement and Research Issues and Challenges.** Invited talk on public health approaches to promoting walking (Conference sponsored by American College of Sports Medicine and University of Illinois Urbana-Champaign; Urbana-Champaign, IL; Oct, 2005)
- Changing Nature of Musculo-Skeletal Disorder Risk.** Invited talk on physical activity, obesity, and injury risk in older adults (Conference sponsored by National Institute of Occupational Safety and Health; Seattle, WA; Sep 2005)
- Washington Recreation and Parks Association annual meeting.** Invited presentation on the role parks and recreation sector in promoting physical activity and health (Chelan, WA; March, 2005)

- Implementation of WHO Physical Activity Strategy.** Invited short presentation on CDC activities in promoting physical activity (sponsored by WHO and CDC). (Miami, FL; Dec 2004)
- Forest Service Region 6 Centennial Forum.** Invited speaker on recreational trends (sponsored by USDA Forest Service; Stevenson, WA; Nov, 2004)
- Second Annual Nathan W. Shock Symposium.** Invited speaker on physical activity (sponsored by the National Institute on Aging; Towson, MD; Sept 2004).
- YMCA Activate America Conference.** Invited talk on environmental and policy approaches to promoting physical activity in communities (Washington, DC; Sept 2004)
- Puijo Symposium: Physical Activity and Health: Gender Differences Across the Lifespan.** Invited speaker on physical activity and falls (Kuopio, Finland; June 2003).
- Creating Healthy, Active Communities.** Invited keynote presentation on launching the Washington State Plan on Physical Activity and Nutrition (Sponsored by Washington State Department of Health; April 2003).
- Physical Activity: Preventing Disablement in Older Adults.** Invited speaker who summarized major themes of the conference in the final presentation (Sponsored by Cooper Institute; Dallas, TX; Oct 2002)
- Communicating Physical Activity and Health Messages: Science into Practice.** Invited speaker on content of media messages regarding physical activity (Sponsored by CDC and Health Canada; Whistler, Canada; Dec, 2001)
- European Geriatric Society Annual Meeting.** Invited speaker on promoting physical activity in older adults (Paris; Aug 2001)
- Summer Institute on Aging Research** (sponsored by National Institute on Aging and by the Brookdale Foundation). Invited speaker on aging and exercise (Washington, DC: July 1998).
- CDC regional conference on public Health Approaches to Promoting Physical Activity.** Invited speaker on evaluation of public health interventions (Spokane, Washington; May, 1998).
- American Geriatric Society, Annual meeting 1998.** Invited speaker on prevention in older adults (Seattle, Washington; April 1998).
- Robert Wood Johnson Foundation Symposium on Physical Activity.** Invited speaker on promoting physical activity in older adults (Princeton, New Jersey; March 1998).
- Washington Coalition for Promotion of Physical Activity.** Invited speaker on physical activity (November, 1997).
- ACSM Physical Activity Research Conference.** Invited speaker on research priorities for physical activity in older adults (Dallas, Texas; October 1997).
- Rheumatology, Infectious Disease, & Immunology GER** (sponsored by the John A. Hartford Foundation). Invited chair of section on Osteoarthritis session)
- Summer Institute on Aging Research** (sponsored by National Institute on Aging and by the Brookdale Foundation). Invited speaker on aging and exercise (Washington, DC: July 1998).
- University of South Carolina** (sponsored by Byrnie Center on Aging). Invited speaker on models of frail health (Columbia, SC; June 1997).
- Istituto Nazionale Rospo E Cura Per Anziani** (National Institute for Research and Care on Aging). Invited Speaker at workshop: "Aging, Health and Home Environment." (Florence, Italy; March, 1997).
- CDC Course on Physical Activity and Public Health.** Coordinator for one day and invited Presentation on Exercise in Older Adults, and on Research Designs in Older Adult Exercise Trials (Charleston, South Carolina; September, 1996).
- Royal Australasian College of Physicians & New Zealand Geriatrics Society.** Invited speaker at annual meeting (Dunedin, NZ; September, 1996).
- RSL Visiting Professor, Australian Geriatrics Society.** Visiting Professorship involving one week of activities in association with Australian Geriatrics Society (Canberra, Australia; May, 1996).

- Falls Prevention Seminar.** Invited presentation (International Keynote Speaker) entitled: "An International Perspective of Falls Prevention." Workshop sponsored by Department of Health and Community Services, Victoria, Australia in conjunction with the International Injury Prevention Conference (Melbourne, Australia; February, 1996).
- Third International Conference on Injury Prevention and Control.** Presentation ("distinguished speaker") in symposium entitled: Aged Falls (Melbourne, Australia; February, 1996).
- NIH Consensus Development Conference on Physical Activity and Cardiovascular Health.** Invited Presentation on Physical Activity Interventions in Older Adults (Washington, D.C.; December 1995).
- University of Washington School of Public Health and Community Medicine 25th Anniversary Meeting.** Invited Presentation on Health Promotion in Older Adults (Seattle, Washington; September, 1995)
- CDC Course on Physical Activity and Public Health.** Coordinator for one day and invited Presentation on Exercise in Older Adults, and on Research Designs in Older Adult Exercise Trials (Charleston, South Carolina; September, 1995).
- University of Auckland, Department of Preventive Medicine.** Invited presentation on the results of the FICSIT trials (Auckland, New Zealand; March, 1995)
- National Institute on Aging, Council Meeting.** Invited presentation to the NIA Council on the results of the FICSIT trials. (Washington, D.C.; September, 1994).
- National Institute on Aging, Sarcopenia Workshop.** Invited discussant at a workshop on muscle loss with aging (Washington, D.C., September, 1994).
- National Association of Spinal Chord Nurses.** Invited presentation on how to apply for a research grant to a joint session of three societies interested in spinal chord injury. (Las Vegas, Nevada; September, 1994).
- International State of the Art Conference, "Geriatric Assessment Technology,"** sponsored by the I.A.G. European Region. Invited speaker on "Assessment of Gait, Balance, and Mobility" and "Assessment of Exercise: Abilities and Needs." (Florence, Italy; June, 1994).
- National Institute on Aging Workshop, "Physical Functional Independence in Older Persons."** Invited speaker on the need for large-scale exercise trials to show that exercise reduces risk of loss of independence in older adults (Washington, D.C.; January, 1994).
- Centers for Disease Control and Prevention (CDC), and American College of Sports Medicine (ACSM) sponsored work group** on Physical Activity Recommendations for Older Adults. The work group wrote a general background paper for the new physical activity guideline issued by CDC/ACSM, and a second background paper explicating the recommendation in older adults (Dallas, Texas; November, 1993).
- Chair, Abstract Review Committee** for Clinical Epidemiology, Annual meeting of Society for General Internal Medicine (Washington, D.C., May, 1994).
- Chair, Abstract Review Committee** for Falls and Immobility, Annual meeting of Gerontologic Society of America (New Orleans, November, 1993).
- HSR&D SOTA II Conference,** Department of Veterans Affairs. Participant in a conference designed to disseminate information about DVA data-bases (November, 1993; Washington, D.C.).
- Visiting Professor,** Center on Aging, Kansas University Medical Center (October, 1993; Kansas City, Kansas).
- HSR&D Post-Doctoral Education Workshop,** Department of Veterans Affairs. Participant in a conference about implementing a post-Ph.D. HSR&D fellowship program. (September, 1993; Durham, North Carolina).
- American College of Sports Medicine Scientific Session.** Invited Speaker on the Effects of Exercise on Functional Status in Older Adults (June, 1993; Seattle, Washington).

- National Institute on Aging Workshop**, Physical Performance Measures in Older Adults. Invited Speaker on Conceptualization of Measures (May, 1993; Boston, Massachusetts).
- American Association of Orthopedic Surgeons Workshop**. Invited speaker on Disease and Hip Fracture Risk (January, 1993; Chicago, Illinois).
- John K. Friesen Lecture Series in Gerontology**, Simon Fraser University. Invited speaker on Exercise and Frailty (November, 1992; Vancouver, Canada).
- Chair, HSR&D SOTA I Conference**, Department of Veterans Affairs. Chairman of a conference designed to disseminate information about community-based long-term care (September, 1992; Washington, D.C.).
- Presider, Scientific Session on Prevention and Health Promotion**. Annual Meeting of the Association of Health Services Research (June, 1992; Chicago, IL).
- European Congress of Gerontology**. Invited speaker on Exercise and Falls in a symposium on falls in older adults. (September, 1991; Madrid, Spain).
- Annual Meeting of the Gerontological Society of America**. Invited speaker on exercise and tertiary prevention. (November, 1990; Boston, MA).
- Presider, Scientific Session on Falls and Injuries in Older Adults**, 1990 Annual Meeting of the Gerontological Society of America (November, 1990; Boston, MA).
- Society for General Internal Medicine Workshop**. One of 3 faculty leading two 1.5 hour sessions on Injury control (May, 1990; Washington, D.C.).
- 1990 Annual Meeting of the American Association of Physical Medicine and Rehabilitation**. Talk on use of statistical methods in rehabilitation research. (October, 1990; Phoenix, AZ).
- 1989 Annual Meeting of the American Association of Physical Medicine and Rehabilitation**. Talk on use of statistical methods in rehabilitation research. (October, 1989; San Antonio, CA).
- Presider, Scientific Session on Geriatric Research**, Society of General Internal Medicine (May, 1989).
- National Institute on Aging Workshop**, "Reducing Frailty and Fall Related Injuries in Older Persons". Talk on potential health effects of strength interventions (September, 1989; Washington, D.C.).
- Conference on Injury in America**. Topical Table Discussion Group on Falls and Hip Fracture, Center for Disease Control, (May, 1987; Atlanta, Georgia).

Participation in Peer Review

Service on Study Sections

- Reviewer, Metabolic Disorders Steering Committee (MDSC) of The Biomarkers Consortium, a public private partnership of NIH, FDA, pharmaceutical industry, BIO, CMS, academia and the nonprofit sector, which is managed by the Foundation for the National Institutes of Health (October, 2009)
- Reviewer, Health Research Council of New Zealand (June, 1997).
- Member, NIH Community Prevention and Control Study Section (June, 1997).
- Member, VA HSR&D Special Review Section (Gender Differences IIR's) (March, 1997).
- Member, VA HSR&D Review Section for Investigator Initiated Research Proposals (IIR's) (January, 1996).
- Chairman, NIH Biomechanical Ad Hoc Study Section (November, 1991; December, 1992).
- Member, NIH Behavioral Medicine Study Section (February, 1992).
- Member, NIH Biochemical Endocrinology Ad Hoc Study Section (July, 1990).
- Member, NIH Special Review Section, Small Business Innovation Research (June 1987, October 1987, July 1988, March 1989, November 1995).

Manuscript Review

Aging Clinical and Experimental Research
American Journal of Epidemiology
American Journal of Medicine
American Journal of Preventive Medicine
American Journal of Health Promotion
Annals of Internal Medicine
Archives Physical Medicine & Rehabilitation
Epidemiologic Reviews
Journal of the American Medical Association
The Gerontologist
Journal of the American Geriatrics Society
Journal of General Internal Medicine
Journal of Gerontology
Journal of Physical Activity and Health
Journal of Social Science and Medicine
Journal of Rehabilitation Medicine
Medical Care
Medicine Science Sports Exercise
New England Journal of Medicine