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Curriculum Vitae

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**EDUCATIONAL BACKGROUND**

**Ph.D. in Epidemiology**, July 1984  
University of North Carolina, Chapel Hill, N.C.  
Dissertation Topic: Occupational Characteristics and Development of Coronary Heart Disease

**M.P.H. in Public Health Nursing**, August 1981  
University of North Carolina, Chapel Hill, N.C.

**B.S.N.**, May 1979 (Magna cum laude)  
Georgetown University, Washington, D.C.

**CURRENT PROFESSIONAL POSITIONS**

April 1996 - Present	Co-Principal Investigator (at the rank of Full Member) Women's Health Initiative Clinical Coordinating Center Division of Public Health Sciences Fred Hutchinson Cancer Research Center
October 1989 - Present	Scientific Investigator Center for Health Studies Group Health Cooperative of Puget Sound
October 1989 - Present	Professor (rank as of July 1, 1997) Department of Epidemiology School of Public Health and Community Medicine University of Washington
January 1990 - Present	Adjunct Professor Department of Health Services School of Public Health and Community Medicine University of Washington

**PREVIOUS PROFESSIONAL POSITIONS**

September 1984 - September 1985	Postdoctoral Fellow in Cardiovascular Epidemiology Department of Epidemiology School of Hygiene and Public Health The Johns Hopkins University Baltimore, Maryland
September 1985 - April 1987	Epidemiologist National Center for Health Statistics Division of Health Examination Statistics Hyattsville, Maryland
April 1987 - October 1989	Epidemiologist National Institute on Aging National Institutes of Health Epidemiology, Demography and Biometry Program Bethesda, Maryland
July 1988 - July 1991	Adjunct Assistant Professor Department of Epidemiology School of Hygiene and Public Health The Johns Hopkins University Baltimore, Maryland

**SCHOLARSHIPS, FELLOWSHIPS, HONORS AND AWARDS**

1980-1981	Occupational Health Traineeship (NIOSH), Department of Public Health Nursing, University of North Carolina
1981-1982	Cancer Traineeship (NCI), Department of Epidemiology, University of North Carolina
1983	American Heart Association, North Carolina Affiliate, Small Grant-In-Aid, Project Title: Job Characteristics, Perceived Control and Incidence of Coronary Heart Disease.
1983-1984	Cardiovascular Traineeship (NHLBI), Department of Epidemiology, University of North Carolina
1984-1985	Cardiovascular Fellowship (NHLBI), Department of Epidemiology, The Johns Hopkins University.
1990-1993	Brookdale Foundation National Fellowship in geriatrics and gerontology
2006-2008	Aljoya Visiting Professor in Healthy Aging, School of Nursing, University of Washington

**PROFESSIONAL ACTIVITIES**

**Professional Organizations**

Council on Epidemiology, American Heart Association  
Society for Epidemiologic Research  
American Public Health Association, elected to governing council 9/93  
American Society for Bone and Mineral Research  
Delta Omega, the Honorary Public Health Society  
Sigma Theta Tau, the International Honor Society of Nursing

**Committees**

Executive Committee, Council on Epidemiology, American Heart Association (July 1987 - July 1991)

Veterans Administration Northwest Regional Health Services Research and Development Field Program Steering Committee (October 1989 - October 1992)

Data Monitoring Board, Women's Health Study: A Randomized Controlled Double-Blind Trial of Aspirin and Beta-Carotene for the Prevention of Heart Attack and Cancer in Women. Principal Investigator: Julie Buring, ScD, Brigham and Women's Hospital and Harvard Medical School (December 1991 - Present)

Data Monitoring Board, Ischemic Optic Neuropathy Decompression Trial. Study Chairman: Shalom E. Kelman, M.D., University of Maryland (February 1992 - December 1994)

Biological and Clinical Aging Review Committee, National Institute on Aging (July 1992 - June 1996). Chairperson of the Committee from July 1, 1994-June 30, 1995.

NHLBI Task Force on Research in Epidemiology and Prevention of Cardiovascular Disease (July 1992 - October 1993)

Clinical Trials Advisory Panel, National Institute on Aging, National Institutes of Health (September 2007 - present)

**Consultation**

1984-1985	North Carolina Occupational Safety and Health Project Office Workers Stress Survey
1985	National Institute on Aging Concept proposal for longitudinal study of the oldest old
1985	Department of Epidemiology, University of North Carolina John Henryism and Hypertension Risk: Race and Gender Influences
1990	National Heart, Lung and Blood Institute Estimating the prevalence of coronary heart disease from NHANES data

- 1990 National Heart, Lung and Blood Institute  
Planning for a national conference on behavioral factors and CVD in women
- 1991 American Heart Association  
Chaired committee to evaluate a taskforce report on AHA's mission to the elderly
- 2003 Cancer Research UK  
Participated in the Quinquennial Review to the Cancer Research Epidemiology Unit directed by Professor Valerie Beral at the University of Oxford

**Invited Participation in National Meetings**

- April 1989 NHLBI Workshop on "Work Environments and Cardiovascular Disease". Co-chaired working group on theoretical models.
- March 1990 NIA sponsored conference on "Compression of Morbidity". Invited discussant and workshop facilitator.
- September 1991 NHLBI sponsored conference on "Women, Behavior and Cardiovascular Disease". Invited speaker and taskforce participant.
- September 1991 NIH Office of Research on Women's Health sponsored workshop on "Opportunities for Research on Women's Health". Invited participant in the "perimenopausal to mature years" working group.
- November 1991 64th Scientific Sessions of the American Heart Association. Postgraduate Seminar Speaker on "Heart Disease and Hormones in Women Across the Lifespan: Postmenopausal Prevention and Therapy."
- December 1993 International Consensus Conference on Hormone Replacement Therapy and Cardiovascular Disease sponsored by the American Fertility Society. Plenary speaker on "Psychosocial Risk Factors for Coronary Heart Disease in Women" and workshop participant.
- December 1993 Seminar on Health Issues Among Older Women in the United States sponsored by the Bowman Gray School of Medicine, Department of Public Health Sciences. Opening speaker.
- February 1994 American Association for the Advancement of Science (AAAS) Annual Meeting. San Francisco, CA: February 19, 1994. Presented invited paper entitled, "Epidemiologic Discovery and Prospects for Healthy Lifespan Extension."
- November 1996 Gerontologic Society of America (GSA) Annual Meeting. Washington , DC: November 14, 1996. Presented invited paper at a Presidential Symposium entitled, "The Promise of Research for Improving the Health and Healthcare of Older People in Managed Care Settings."

- January 1998 US Public Health Service's Office on Women's Health Conference entitled, "The Future of Managed Care and Women's Health: New Direction for the 21<sup>st</sup> Century." Washington, DC: January 26-27, 1998. Presenting paper entitled, "A Population-Based Strategy for Improving Informed Decision-Making About HRT Among Women in Managed Care Organizations."
- May 1998 Jacobs Institute on Women's Health. Symposium entitled, "Neither Prevention Nor Cure: Managed Care for Women with Chronic Conditions." May 27, 1998, Washington, D.C. Presented paper entitled, "Challenges in the Prevention of Osteoporosis and Fracture in Managed Care Settings."
- June 1998 American College of Sports Medicine Annual Meeting. June 4, 1998, Orlando, Florida. Presented invited paper at a presidential symposium entitled, "Cardiovascular Disease and Functional Status in Older Adults: A Walk a Day Keeps the Disability Away."
- September 2000 North American Menopause Society. 11<sup>th</sup> Annual Meeting. September 7-9, 2000, Orlando, Florida. Presented an invited plenary paper entitled, "Trials and tribulations: On what evidence shall we base recommendations for preventive therapies?"
- June 2002 American Diabetes Association 2002 Annual Meeting. June 16, 2002, San Francisco, CA. "HRT and Cardiovascular Disease: News and Views."
- April 2003 American College of Obstetricians and Gynecologists Annual Meeting. April 28, 2003, New Orleans, LA. "Clarifying the Role of Hormone Therapy: The Experts Debate."
- March 2005 NIH State-of-the-Science Conference on Management of Menopause-related Symptoms. March 21-23, 2005, Bethesda, MD. "Estrogen with and without progestin: benefits and risks of short-term use."
- September 2005 16<sup>th</sup> Annual Meeting of the North American Menopause Society; 2005 theme: "Menopause and Healthy Aging." September 28-October 1, 2005. "Insights on managing menopause and promoting healthy aging from the Women's Health Initiative."
- February 2006 WHI Conference: The WHI Legacy to Future Generations of Women, Update on Scientific Contributions. February 28-March 1, 2006, Bethesda, MD. "The Calcium and Vitamin D Supplementation Trial: Other bone findings."
- April 2006 30<sup>th</sup> Annual Oregon State University Gerontology Conference. April 6-7, 2006, Corvallis, Oregon. "Lessons learned from the Women's Health Initiative"
- May 2006 The de Tornyay Healthy Aging Spring Lecture. School of Nursing, University of Washington. May 25, 2006, Seattle, WA. "From prevention trials to practice: what 160,000 US women have taught us about staying well."

- October 2006      Bone Health Symposium: New Concepts in Fracture Risk Assessment and Treatment of Osteoporosis. October 21, 2006, Gig Harbor, WA. "The role of hormonal therapies for osteoporosis."
- June 2007        NIA Workshop on Unexplained Fatigue in the Elderly. June 25-26, 2007, Bethesda, MD. "Fatigue in Later Life: Epidemiology, Consequences and Other Mysteries."
- September 2007      Nutrition and Aging XXII: Frailty in Older Adults. September 11-12, 2007, Little Rock, Arkansas. Organized by GRECC and Central Arkansas Veterans Healthcare System. "Predictors and Consequences of Frailty in Older Women from the Women's Health Initiative."

### **International Teaching and Consultation**

- June 1991        Second Course of Geriatric Epidemiology, Padova, Italy  
Two-week course sponsored by the Italian Society of Gerontology and Geriatrics and the Institute of Internal Medicine, University of Padova
- June 1991        Netherlands Heart Foundation, The Hague, Netherlands  
Consultation regarding planning for a theme year (1993) on prevention in the elderly
- June 1992        First and Third Courses of Geriatric Epidemiology, Padova, Italy  
Beginning and Advanced courses of geriatric epidemiology sponsored by the Italian Society of Gerontology and Geriatrics and the Institute of Internal Medicine, University of Padova

### **Invited Lectures**

- 1985-90        "Race, Socio-economic Status and Coronary Heart Disease",  
"Psychosocial Risk Factors for Coronary Artery Disease",  
Cardiovascular Epidemiology Course, School of Hygiene and Public Health, The Johns Hopkins University
- 1986            "Coffee Consumption and the Incidence of Coronary Heart Disease," The University of North Carolina at Chapel Hill
- 1988-89        "Data Sources on the Elderly: Major Studies on Aging",  
"Psychosocial Issues in the Epidemiology of Health and Disease in the Elderly",  
Epidemiology of Aging Course, School of Hygiene and Public Health, The Johns Hopkins University.
- 1989            "How to Interpret Epidemiologic Controversies",  
University of Hawaii, Department of Epidemiology 1989 "Thiazide Use and Incidence of Hip Fracture",  
Yale University, Department of Epidemiology
- 1990-98        "Race, Socioeconomic Status and Coronary Heart Disease,"

“Cardiovascular Disease in Women,”  
Cardiovascular Epidemiology course, University of Washington

### **Editorial Review**

New England Journal of Medicine  
Journal of the American Medical Association  
American Journal of Epidemiology  
Annals of Epidemiology  
Circulation  
American Journal of Public Health  
Journal of the American Geriatrics Society  
American Journal of Preventive Medicine  
Preventive Medicine  
Journal of Aging and Health

### **BIBLIOGRAPHY**

#### **Research Papers in Refereed Journals**

1. James SA, LaCroix AZ, Kleinbaum DG, Strogatz DS. John Henryism and blood pressure differences in black men: the role of occupational stressors. *Journal of Behavioral Medicine* 1984;7:257-273.
2. Williams CA, Beresford SA, James SA, LaCroix AZ, Strogatz DS, Wagner EH, Kleinbaum DG, Cutchin LM, Ibrahim MA. Social support, social stressors and treatment dropout: the Edgecomb County High Blood Pressure Control Program. *American Journal of Public Health* 1985;75:483-486.
3. LaCroix AZ, Mead LA, Liang K-Y, Thomas CB, Pearson TA. Coffee consumption and the incidence of coronary heart disease. *New England Journal of Medicine* 1986;315:977-982.
4. Rautaharju PM, LaCroix AZ, Savage DD, Haynes SG, Madans JH, Wolf HK, Hadden W, Keller J, Cornoni-Huntley J. Electrocardiographic estimate of left ventricular mass vs. radiographic cardiac size and the risk of cardiovascular disease mortality in white and black men and women: results from the NHANES I Epidemiologic Followup Study. *American Journal of Cardiology* 1988;62:59-66.
5. Havlik RJ, LaCroix AZ, Kleinman JC, Ingram D, Harris T, Cornoni-Huntley J. Antihypertensive Drug Therapy and Survival by Treatment Status in a National Survey. *Hypertension* 1989;13,Supplement I:I28-I32.
6. Pieper C, LaCroix AZ, Karasek RA. The relationship of psychosocial dimensions of work with coronary heart disease risk factors: A meta-analysis of five US data bases. *American Journal of Epidemiology* 1989;129:483-494.
7. Reed DM, LaCroix AZ, Karasek RA, Miller FD, MacLean CA. Occupational strain and the incidence of coronary heart disease. *American Journal of Epidemiology* 1989;129:495-502.

8. LaCroix AZ, Haynes SG, Havlik R, Savage D. Rose Questionnaire angina among United States black, white and Mexican-American women and men: Prevalence and correlates from the Second National and Hispanic Health and Nutrition Examination Surveys. *American Journal of Epidemiology* 1989;129:669-686.
9. Cornoni-Huntley J, LaCroix AZ, Havlik RJ. Race and sex differentials in the impact of hypertension in the United States: The NHANES I Epidemiologic Follow-up Study. *Archives of Internal Medicine* 1989;149:780-788.
10. Liu IY, White L, LaCroix AZ. The association between age-related macular degeneration and lens opacities in the aged. *American Journal of Public Health* 1989;79:765-769.
11. LaCroix AZ, Lipson S, Miles TP, White L. A prospective study of pneumonia hospitalization and mortality in U.S. older people: the role of chronic conditions, health behaviors, and nutritional status. *Public Health Reports* 1989;104:350-361.
12. LaCroix AZ, Guralnik JM, Curb JD, Wallace RB, Ostfeld AM, Hennekens CH. Chest pain and coronary heart disease mortality among older men and women in three communities. *Circulation* 1990;81:437-446.
13. LaCroix AZ, Wienpahl J, White L, Wallace RB, Scherr P, George LK, Huntley J, Ostfeld AM. Thiazide diuretics and the incidence of hip fracture. *New England Journal of Medicine* 1990;322:286-90.
14. Colsher PL, Wallace RB, Pomrehn PR, LaCroix AZ, Cornoni-Huntley J, Blazer D, Scherr P, Berkman L, Hennekens CH. Demographic and health characteristics of elderly smokers: results from the Established Populations for Epidemiologic Studies of the Elderly. *American Journal of Preventive Medicine* 1990;6:61-70.
15. Liu IY, LaCroix AZ, White LR, Kittner SJ, Wolf PA. Cognitive impairment and mortality in the aged: A study of possible confounders. *American Journal of Epidemiology* 1990;132:136-143.
16. Pearson TA, LaCroix AZ, Mead LA, Liang K-Y. The prediction of midlife coronary artery disease and hypertension in young adulthood: The Johns Hopkins Multiple Risk Equations. *American Journal of Preventive Medicine* 1990;6(suppl 1):23-28.
17. Curb JD, Guralnik JM, LaCroix AZ, Korper S, Deeg D, Miles T, White L. Effective aging: meeting the challenge of growing older. *J Am Geriatr Soc* 1990;38:827-828.
18. Rautaharju PM, LaCroix AZ, Savage DD, Cox CS, Madans JH, Warren J, Wolf HK, Hadden W. Heart size estimates indexed optimally to body and chest size: I. The effect of age and hypertensive status. *Am J Noninvas Cardiol* 1990;4:104-114.
19. Rautaharju PM, Cox CS, Madans JH, LaCroix AZ, Savage DD, Calhoun HP, Wolf HK, Hadden W. Heart size estimates indexed optimally to body and chest size: II. Prognostic value for cardiovascular disease mortality. *Am J Noninvas Cardiol* 1990;4:187-192.

20. Scholes D, LaCroix AZ, Wagner EH, Grothaus LC, Hecht JA. Tracking progress towards national health objectives in the elderly: What do restricted activity days signify? *American Journal of Public Health* 1991;81:485-488.
21. Guralnik JM, LaCroix AZ, Branch LG, Kasl SV, Wallace RB. Morbidity and disability in older persons in the years prior to death. *American Journal of Public Health* 1991;81:443-447.
22. LaCroix AZ, Lang J, Scherr P, Wallace RB, Cornoni-Huntley J, Berkman L, Curb JD, Evans D, Hennekens CH. Smoking and mortality among older men and women in three communities. *New England Journal of Medicine* 1991;324:1619-1625.
23. Wagner EH, Grothaus LC, Hecht JA, LaCroix AZ. Factors associated with participation in a senior health promotion program. *The Gerontologist* 1991;31:598-602.
- \*24. Leveille SG, LaCroix AZ, Hecht JA, Grothaus LC, Wagner EH. The cost of disability in older women and opportunities for prevention. *J Women's Health* 1992;1:53-61.
25. Scherr PA, LaCroix AZ, Wallace RB, Berkman L, Curb JD, Huntley J, Evans DA, Hennekens CH. Light to moderate alcohol consumption and mortality in the elderly. *Journal of the American Geriatrics Society* 1992;40:651-657.
26. Salive ME, Cornoni-Huntley J, LaCroix AZ, Ostfeld AM, Wallace RB, Hennekens CH. Predictors of smoking cessation and relapse in older adults. *American Journal of Public Health* 1992;82:1268-1271.
27. LaCroix AZ, Yano K, Reed DM. Dehydroepiandrosterone sulfate, incidence of myocardial infarction, and extent of atherosclerosis in men. *Circulation* 1992;86:1529-1535.
28. Wagner EH, LaCroix AZ, Grothaus LC, Hecht JA. Responsiveness of health status measures to change among older adults. *Journal of the American Geriatrics Society* 1993;41:241-248.
29. Guralnik JM, LaCroix AZ, Abbott RD, Berkman LF, Satterfield S, Evans DA, Wallace RB. Maintaining mobility in late life: Part I. Demographic characteristics and chronic conditions. *American Journal of Epidemiology* 1993;137:845-857.
30. LaCroix AZ, Guralnik JM, Berkman L, Wallace RB, Satterfield S. Maintaining mobility in late life: Part II. Smoking, alcohol consumption, physical activity and body mass index. *American Journal of Epidemiology* 1993;137:858-869.
31. Seeman TE, Berkman LF, Kohout F, LaCroix AZ, Glynn R, Blazer D. Inter-community variations in the association between social ties and mortality in the elderly: a comparative analysis of three communities. *Annals of Epidemiology* 1993;3:325-335.
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33. Klag MJ, Mead LA, LaCroix AZ, Liang K-Y, Pearson TA, Levine DM. Coffee intake and coronary heart disease. *Annals of Epidemiology* 1994;4(6):425-433.

- \*34. Wallace JI, Schwartz RS, LaCroix AZ, Uhlmann RF, Pearlman RA. Involuntary weight loss in elderly outpatients: incidence and clinical significance. *Journal of the American Geriatrics Society* 1995;43(4):329-337.
- 35. LaCroix AZ, Leveille S, Hecht J, Grothaus L, Wagner E. Does walking reduce the risk of cardiovascular disease and death in older adults? *Journal of the American Geriatrics Society* 1996;44(2):113-120.
- \*36. Newton KM, LaCroix AZ. Association of body mass index with reinfarction and survival after first myocardial infarction in women. *Journal of Women's Health* 1996;5:433-444.
- 37. Sullivan M, LaCroix AZ, Grohaus L, Resnick A, Katon W, Wagner EH. Severity of coronary artery disease and functional impairment: how strong is the relation? *Journal of the American Geriatrics Society* 1996;44:1-5.
- \*38. Newton KM, LaCroix AZ, McKnight B, Knopp RH, Siscovick DS, Heckbert SR, Weiss NS. Estrogen replacement therapy and prognosis after first myocardial infarction. *American Journal of Epidemiology* 1997;145:1-9.
- \*39. Newton KM, LaCroix AZ, Leveille SG, Rutter C, Keenan NL, Anderson LA. Women's beliefs and decisions about hormone replacement therapy. *Journal of Women's Health* 1997; 6(4): 459-65.
- 40. Coleman EA, Tyll L, LaCroix AZ, Allen C, Leveille SG, Wallace JL, Buchner DM, Grothaus LC, Wagner EH. Recruiting African-American older adults for a community-based health promotion intervention: which strategies are effective? *American Journal of Preventive Medicine* 1997;13(Suppl. 2):51-6.
- \*41. Leveille SG, LaCroix AZ, Koepsell TD, Beresford S, Van Belle G, Buchner DM. Do dietary antioxidants prevent postmenopausal osteoporosis? *Nutrition Research* 1997; 17(8): 1261-1269.
- 42. Sullivan MD, LaCroix AZ, Baum C, Grothaus L, Katon WJ. Functional status in coronary artery disease: a one-year prospective study of the role of anxiety and depression. *American Journal of Medicine* 1997; 103:348-356.
- \*43. Leveille SG, LaCroix AZ, Newton KM, Keenan N. Older women and estrogen replacement therapy: Factors influencing late-life initiation. *Journal of the American Geriatrics Society* 1997; 45:1-5.
- \*44. Leveille SG, LaCroix AZ, Koepsell TD, Beresford S, Van Belle G, Buchner DM. Dietary vitamin C and bone mineral density in postmenopausal women. *Journal of Epidemiology and Community Health* 1997; 51(5): 479-485.
- 45. Sullivan MD, LaCroix AZ, Russo J, Katon WJ. Self-efficacy and functional status in coronary heart disease: a six-month prospective study. *Psychosomatic Medicine* 1998; 60:473-478.
- 46. Newton KM, LaCroix AZ, Leveille SG, Rutter C, Keenan NL, Anderson LA. The physicians' role in women's decision making about hormone replacement therapy. *Obstetrics and Gynecology* 1998; 92: 580-4.

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51. \*Malmgren JA, Koepsell TD, Martin DP, Diehr P, LaCroix AZ. Mortality, health services use, and health behavior in a cohort of well older adults. *Journal of the American Geriatrics Society* 1999;47:51-9.
52. \*Shapiro JA, Williams MA, Weiss NS, Stergachis A, LaCroix AZ, Barlow WE. Hypertension, antihypertensive medication use, and risk of renal cell carcinoma. *American Journal of Epidemiology* 1999,149:521-30.
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57. Sullivan M, LaCroix A, Russo J, Swords E, Sornson M, Katon W. Depression in coronary heart disease: what is the appropriate diagnostic threshold? *Psychosomatics* 1999;40:286-292.
58. LaCroix AZ, Newton KM, Anderson LA, Buist DSM, Curry SJ, Scholes D, Keenan NL. A population-based strategy for improving informed decision-making about hormone replacement therapy in managed care settings. *Women's Health Issues* 1999;9:306-318.

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60. \*Hill DA, Weiss NS, LaCroix AZ. Adherence to postmenopausal hormone therapy during the year following the initial prescription: a population-based study. *Am J Obstetr Gyn* 2000;182:270-6.
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70. \*Buist DM, LaCroix AZ, Barlow WE, White E, Bauer D, Cauley J, Weiss NS. Bone mineral density and endogenous hormones and risk of breast cancer. *Cancer Causes and Control* 2001;12:213-222.
71. Ott SM, Scholes D, LaCroix AZ, Ichikawa LE, Yoshida C, Barlow WE. Effect of contraceptive use on bone biochemical markers in young women. *Journal of Clinical Endocrinology & Metabolism* 2001;86:179-85.

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73. \*Buist DM, LaCroix AZ, Barlow WE, White E, Weiss NS. Bone mineral density and breast cancer risk in postmenopausal women. *Journal of Clinical Epidemiology* 2001;54:417-422.
74. \*Phelan E, Newton KM, Buist DSM, Anderson LA, LaCroix AZ. Understanding attitudes of older women towards hormone replacement therapy. *Preventive Medicine* 2001;32:49-56.
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80. Cummings SR, Karpf DB, Harris F, Genant HK, Ensrud K, LaCroix AZ, Black DM. Improvement in spine bone density and reduction in risk of vertebral fractures during treatment with antiresorptive drugs. *American Journal of Medicine* 2002;112:281-9.
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### **Manuscripts Submitted**

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### **Other Published Scholarly Papers**

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13. LaCroix AZ. Gender Effects and Hypertension in Women. In: *Hypertension Primer*. JL Izzo Jr., HR Black (eds.). Dallas, TX: American Heart Association, 1993:150-153.
14. LaCroix AZ. Psychosocial risk factors for coronary heart disease in women: an epidemiologic perspective. *Fertility and Sterility* 1994;62(Suppl. 2):133S-139S.
15. LaCroix AZ, Newton KM, Leveille SG, Wallace J. Healthy aging: a women's issue. In: *Successful Aging*. West J Med 1997; 167(4): 220-232.
16. Newton KM, LaCroix AZ, Buist DSM. Overview of CVD Risk Factors. In: *Women's Health*. Goldman, MB, Hatch MC (eds.). San Diego, CA: Academic Press, 2000: 757-770.
17. Reed SD, Newton KM, LaCroix AZ. Indications for hormone therapy: the post-Women's Health Initiative Era. *Endocrinology and Metabolism Clinics of North America* 2004;33(4):691-715.
18. LaCroix AZ. Estrogen with and without progestin: benefits and risks of short-term use. *Am J Med* 2005;118(12Suppl 2):79-87.

#### **Invited Editorials**

1. Heckbert SR, LaCroix AZ. Cardiovascular event classification in the very old: how accurate and how complete? *Epidemiology* 1997; 8(5): 473-4.
2. LaCroix AZ, Burke W. Breast cancer and hormone replacement therapy. *The Lancet* 1997; 350: 1042-1043.

#### **Letters to the Editor**

1. LaCroix AZ, Haynes SG. Chest pain in users of video display terminals. *Journal of the American Medical Association* 1987;257:628.
2. LaCroix AZ, Mead LA, Liang K-Y, Thomas CB, Pearson TA. Coffee consumption and the incidence of coronary heart disease. *New England Journal of Medicine* 1987;316:947.
3. LaCroix AZ. Type A behavior and mortality from coronary heart disease. *New England Journal of Medicine* 1988;319:115.
4. LaCroix AZ. Coffee, caffeine and cardiovascular disease in men. *New England Journal of Medicine* 1991;324:991-992.
5. LaCroix AZ, Hennekens CH. Smoking and mortality among older men and women in three communities. *New England Journal of Medicine* 1991;325:1586.
6. Leveille SG, LaCroix AZ. Exercise training for very elderly people. *New England Journal of Medicine* 1994;330:1237.
7. LaCroix AZ, Newton KM, Phelan E. Physician gender and estrogen replacement therapy. *Journal of General Internal Medicine* 1997;12:334.
8. Keenan NL, Anderson LA, LaCroix AZ, Newton KM, Buist DSM. Achieving long-term continuance of menopausal ERT/HRT: Consensus opinion of The North American Menopause Society. *Menopause* 1999;6:179-180.
9. Rice MM, LaCroix AZ, Drinkwater BL, Larson EB. Diagnosing Osteoporosis in Japanese American Women. *Am J Med* 2001;110:241-2.
10. LaCroix AZ, Ott SM. Low-dose thiazide and bone density. *Ann Intern Med* 2002;136:252-3.
11. Reed S, Newton K, LaCroix A, Grothaus L. Efficacy and safety of isopropranolol black cohosh extract for climacteric symptoms. *Obstet Gynecol* 2005;106(5 Pt 1):1111.

**RESEARCH HISTORY FROM 10/89 – Present**

<b>COMPLETED FUNDED RESEARCH</b>					
<b>TITLE</b>	<b>ROLE</b>	<b>DATES</b>	<b>FUNDING AGENCY</b>	<b>TOTAL DIRECT COSTS</b>	<b>PUBLISHED PAPERS*</b>
The Effect of Thiazide Diuretic Therapy on Bone Density at the Proximal Femur in Elderly Hypertensives	Principal Investigator	1/1/90 - 9/14/90	Centers for Disease Control	\$15,000	

Prevention of Cardiovascular-related Disability in the Elderly: Identification of Modifiable Factors in the Disability Process	Principal Investigator	7/1/90 - 6/30/93	Brookdale Foundation	\$134,559	37, 42, 45, 57, 62
Prevention Center: Health Promotion and Disease Prevention in the Elderly	Co-Investigator	9/30/93 - 9/30/03	Centers for Disease Control	\$7,000,000	32, 35, 51
Prevention of Cardiovascular Disability: The Role of Psychosocial Factors	Co-Principal Investigator	7/1/91 - 6/30/94	American Heart Association -- Washington Affiliate	\$115,032	37, 42, 45, 57, 62, 90
Fracture Intervention Trial (FIT)	Principal Investigator	10/1/91 - 3/31/97	Merck, Sharp and Dohme Laboratories	\$1,943,799	48, 63, 70, 80
Thiazide Diuretics and Rate of Bone Loss in the Elderly	Principal Investigator	9/30/92 - 6/30/98	National Institute on Aging	\$1,830,725	66, 91
Aging and Dementia: Reducing Disability in Alzheimer's Disease	Co-investigator	7/1/93 - 6/30/98	National Institute on Aging	\$1,485,582	49, 101
Alzheimer's Disease Patient Registry	Co-investigator	7/1/93 - 6/30/03	National Institute on Aging	\$2,160,291	
Depo-provera Use and Bone Mineral Density in Young Women	Co-Principal Investigator	9/1/94 - 6/30/03	NICHHD	\$1,500,000	53, 84, 104
Delivery of Preventive Services to Older Women in HMO's	Principal Investigator	9/30/94 - 9/30/99	Centers for Disease Control	\$700,000	39, 43, 46, 50, 54, 56, 58, 69, 76, 79
Estrogen Replacement and CVD Outcomes in Diabetic Women	Co-Principal Investigator	7/1/96 - 6/30/00	NHLBI/NIDDK	\$500,801	36, 38
A Study to Compare the Effectiveness of Two Risk-based Osteoporosis Prescreening Instruments	Principal Investigator	2/1/97 - 7/31/00	Merck & Co.	\$350,000	83, 102, 108, 116
Alternative Therapies for Menopause: A Randomized Trial	Co-Investigator PI: Newton	7/1/00-6/30/04	Office of Alternative Medicine/NIA	\$2.1 million	119, 138, 139, 142, 147
Platelet Polymorphisms and Risk of CHD in Postmenopausal Women	Co-Investigator PI: Bray	9/1/2003 – 8/31/2006	NHLBI	\$1.5 million	

HRT Decision Making in the Post-WHI Era	Co-Investigator PI: Newton	4/1/2004 – 3/31/2007	NIA	\$1.4 million	145
WHI Sex Hormone & Genetic Risk Factors for Hip Fracture	Co-Investigator PI: Cummings	4/1/04 – 3/31/06	NIAMS R01-AR048919	\$30,000 (annual direct subcontract costs)	153, 154, 155

\*Numbers correspond to citation listed in Bibliography.

**CURRENTLY FUNDED RESEARCH**

**Title:** Women's Health Initiative Clinical Coordinating Center  
**Role:** Co-Principal Investigator (Co-Investigator prior to 4/96)  
**Dates:** September 1992 - September 2007  
**Funding Agency:** National Institutes of Health  
**Total Direct Costs:** \$146,000,000  
**Description:** This project is the Coordinating Center for NIH's trial testing low-fat diet, hormone replacement therapy and supplemental calcium and Vitamin D as preventive therapies for coronary heart disease, fractures and breast cancer in post-menopausal women.

**Title:** Hip Geometry and Risk of Fracture in the Women's Health Initiative  
**Role:** WHI-CCC Co-Investigator (Zhao Chen, PI, U Arizona)  
**Dates:** 9/1/2003 – 8/31/2006  
**Funding Agency:** NIAMS  
**Total Direct Costs:** \$1.5 million  
**Description:** This study will determine how hip geometry influences risk of fracture in diverse population of post-menopausal women.

**Title:** Oral Contraceptive Use and Bone Density in Young Women  
**Role:** Co-Investigator (Delia Scholes, PI, Group Health Cooperative)  
**Dates:** 4/1/2004 – 3/31/2009  
**Funding Agency:** NICHD (Priority Score=167; Percentile=10.9)  
**Total Direct Costs:** \$2.4 million  
**Description:** This prospective study will examine the association of low dose oral contraceptive use with change in bone density prospectively in pre-menopausal women and adolescents.

**Title:** Frailty in WHI: Drugs, Inflammatory and Genetic Markers  
**Role:** Principal Investigator  
**Dates:** 9/15/2005 – 7/31/2008  
**Funding Agency:** NIA 1 R01 AG025441-01A1

Total Direct Costs: \$920,150  
 Description: This project proposes to conduct a series of studies (prospective and nested case-control designs) to increase understanding of how the inflammatory response in humans relates to the development of frailty and what role anti-inflammatory medications play in altering this causal pathway. Inflammatory biomarkers and genotyping of 25 candidate genes in the inflammatory pathway will be investigated.

Title: **Subclinical Hypothyroidism and Risk of MI and Stroke**  
 Role: Co-Investigator (Hartmann, PI, U. North Carolina)  
 Dates: 4/1/04 – 3/31/07  
 Funding Agency: NHLBI **RO1-HLO76645**  
 Total Direct Costs: \$66,332 (annual direct FHCRC subcontract costs)  
 Major Goals: To examine the association between subclinical thyroid dysfunction and risk of subsequent MI and stroke in a large prospective cohort of post-menopausal women.

Title: **Estradiol, Cytokines & Bone Turnover-Effects on Fracture**  
 Role: Co-Investigator (JA Cauley, PI, U. Pittsburgh)  
 Dates: 7/1/05 – 6/30/08  
 Funding Agency: NIAMS 1 R01 AR052105-01  
 Total Direct Costs: \$66,332 (annual direct FHCRC subcontract costs)  
 Major Goals: Stored WHI serum will be used to measure bone turnover, cytokine soluble receptors, and two recently discovered cytokines that form the essential pathway through which osteoblast (bone forming cells) precursors direct osteoclast (bone resorption cells) development.

Title: **Anemia and Its Relationship with Sarcopenia, Physical Function, and Mortality**  
 Role: Co-Investigator (Z. Chen, PI, U. Arizona)  
 Dates: 12/1/2006-11/30/2009  
 Funding Agency: NIA 1R01 AG029133-01 Priority Score: 195  
 Total Direct Costs: \$953,901 (total direct costs)  
 Major Goals: The goals of this study are to: 1) evaluate the frequency of and risk factors for anemia overall and according to race-ethnicity and co-morbidity; 2) determine the association between anemia and risk of death over 10 years of follow-up in the WHI overall and by race-ethnicity; 3) determine associations between anemia and changes in physical function over 9 years of follow-up in the WHI among those with baseline and prospective measurements of body composition from dual-energy x-ray absorptiometry; and 5) study the association of anemia with bone loss and risk for osteoporotic fractures in older women.

Title: **Biomarkers and Genetic Factors Related to Sarcopenia in Older Women**  
 Role: Co-Investigator (Z Chen, PI, U. Arizona)  
 Dates: 7/1/06 – 6/30/2011  
 Funding Agency: NIAMS 1 R01 AR052105-01  
 Total Direct Costs: \$50,000 (annual direct FHCRC subcontract costs)  
 Major Goals: The primary objective of this study is to investigate biological mechanisms for sarcopenia by identifying genetic factors and biomarkers that are relevant to low skeletal muscle mass (SMM) and high rates of SMM loss in older women.

**Title:** **Health Care Improvement for Aging Women**  
**Role:** Principal Investigator  
**Dates:** 4/1/06 – 3/31/11  
**Funding Agency:** NIA T32 AG027677-01  
**Total Direct Costs:** \$736,940 (through Group Health Cooperative)  
**Major Goals:** The purpose of this training program application is to prepare postdoctoral public health scientists, primarily epidemiologists, health services researchers, behavioral scientists, and academic clinicians, to produce the evidence that will guide optimum, efficient, and cost-effective healthcare practices for older women in the future.

**Title:** **Genome-wide Association Study to Identify Genetic Components of Hip Fracture**  
**Role:** Co-Principal Investigator (Rebecca Jackson, PI, Ohio State University)  
**Dates:** 1/12/07-12/31/2008  
**Funding Agency:** NHLBI BAA WH-06-09  
**Total Direct Costs:** \$4 million  
**Major Goals:** The major goal of this project is to perform a genome-wide SNP analysis to identify reproducible genetic alterations that make postmenopausal women susceptible to hip fracture.

**Title:** **Endogenous Estradiol and Effects of Estrogen Therapy on Major Outcomes of WHI**  
**Role:** Co-Investigator (Steve Cummings, PI, California Pacific Medical Institute)  
**Dates:** 1/12/07-12/31/2008  
**Funding Agency:** NHLBI BAA WH-06-09  
**Total Direct Costs:** \$1.5 million  
**Major Goals:** To determine whether effects of hormone therapy on CHD, stroke, hip fracture, breast cancer, and dementia vary by pre-randomization levels endogenous estradiol in postmenopausal women.

**Title:** **Oral Contraceptive Use and Risk of Fracture Around the Time of Menopause**  
**Role:** Co-Investigator (Delia Scholes, PI, Group Health Cooperative)  
**Dates:** 4/1/2007-3/31/2012  
**Funding Agency:** NIA/NICHHD/NIAMS  
**Total Direct Costs:** \$1,912,492  
**Major Goals:** To conduct a case-control study of incident fracture in women ages 45-59 to determine associations with current oral contraceptive use, duration of oral contraceptive use and age at oral contraceptive use.

**Title:** **Menopausal Symptoms Initiative-Finding Lasting Answers for Sweats and Hot Flashes (MSI-FLASH)**  
**Role:** Investigator (LaCroix and Anderson, PIs)  
**Dates:** 7/1/08 – 6/30/13  
**Funding Agency:** NIA U01 RFA-AG-08-004, New Interventions for Menopausal Symptoms  
**Total Direct Costs:** \$2,153,143 (annual direct costs for Year 1)  
**Major Goals:** The longterm objective of NIA's RFA-AG-08-004 entitled, "New Interventions for Menopausal Symptoms (U01) is to accelerate progress in identifying effective remedies

for vasomotor symptoms (VMS) in women going through the menopausal transition. We have created a network of scientists who are highly knowledgeable about the menopausal transition and experienced in the conduct of women's health trials to fulfill this mission. This Data Coordinating Center (DCC) application is being submitted in conjunction with the network entitled, "The Menopausal Symptoms Initiative-Finding Lasting Answers to Sweats and Hot Flashes (MSI-FLASH)". Our DCC will be jointly led by Andrea LaCroix and Garnet Anderson who have served together as Co-Principal Investigators of the Women's Health Initiative Clinical Coordinating Center (Seattle) for more than a decade. The MSI-FLASH network has five clinical sites located in Boston (Lee Cohen and Hadine Joffe, PIs), Indianapolis, IN (Janet Carpenter, PI), Oakland, CA (Barbara Sternfeld and Bette Caan, PIs), Philadelphia (Ellen Freeman, PI) and Seattle (Katherine Newton and Susan Reed, PIs). This multidisciplinary investigator group proposes five randomized controlled trials testing a range of behavioral, mind-body, hormonal and pharmacologic interventions to treat hot flashes.

## **TEACHING EXPERIENCE**

### **Formal Classroom Teaching**

Winters 1987-89	Instructor, Epidemiologic Methods (2A) Department of Epidemiology, School of Hygiene and Public Health, The Johns Hopkins University
Winters 1991-92, 1996, Spring 1999 as independent study	Epidemiologic Research in Aging Populations (Epidemiology 589: 3 credits) Department of Epidemiology, University of Washington, 100% responsibility, 6-10 students
Winter 1993- Spring 1995	Epidemiologic Controversies in Women's Health (Epidemiology 590I: 2-3 credits) Department of Epidemiology, University of Washington, 50% responsibility, 15 students
Spring 1994	Epidemiology Journal Club (1 credit), 100% responsibility, 12 students

### **Informal Teaching**

1. Advising: 2-4 students
2. Master's students:

Wallace, Jeffrey I. Department of Epidemiology. "Involuntary Weight Loss in Elderly Outpatients: Incidence and Clinical Significance." Chairperson of thesis committee. June 1992.

Novais, Jaime. Department of Health Services. "Effects, safety and compliance with an exercise program in a senior center: a randomized trial." Committee member. June 1993.

Rock, Marion. Department of Epidemiology. "Quality of Dental Care Among Low Income Children in Seattle." Chairperson of thesis committee. June 1994.

Erickson, Janelle. Department of Epidemiology. "Factors associated with compliance with Fecal Occult Blood Testing in Women." Committee member. June 1999.

Elizabeth Phelan. Department of Epidemiology. "Quality of preventive care delivered to postmenopausal women by women's healthcare vs. internal medicine clinics." Chairperson of thesis committee. June 1999.

Gray, Shelly. Department of Epidemiology. "Benzodiazepine use and functional status in older adults." Chairperson of thesis committee. March 1998 – June 2001.

Jennifer Brennan. Department of Epidemiology. "Characteristics of women using alternative therapies for relief of menopausal symptoms. Chairperson of thesis committee. July 2000-June 2001.

3. PhD students:

Diana Buist. Department of Epidemiology. The association of bone mineral density and endogenous hormone levels with risk of breast cancer in post-menopausal women. Chairperson of dissertation committee. 1996-May 1999.

Karen L. Edwards. Department of Epidemiology. Genetic epidemiology of the insulin resistance syndrome: a multivariate approach. Committee member. June 1996.

Annette L. Fitzpatrick. Department of Epidemiology. Hypertension, use of antihypertensive medications, and risk of prostate cancer. Committee member. 1996-June 1999.

Deirdre Hill. Department of Epidemiology. Continuous combined vs. sequential administration of progestogen with estrogen replacement therapy in relation to risk of endometrial cancer. Committee member. 1994-1997.

John E. Hokanson. Department of Epidemiology. Linkage of small, dense low-density-lipoproteins to the lipoprotein lipase gene locus. Committee member. 1994-1998.

Eric Jacobs. Department of Epidemiology. Hormone replacement and colon cancer among Group Health Women. Committee member. June 1996.

Suzanne G. Leveille. Department of Epidemiology. Dietary antioxidants and postmenopausal osteoporosis. Chairperson of dissertation committee. June 1995.

Judith A. Malmgren. Department of Epidemiology. Relationship of health behaviors to mortality and health service use in the last year of life in a cohort of well older adults. Committee member. June 1995.

Katherine M. Newton. Department of Epidemiology. Postmenopausal estrogen replacement therapy and survival after myocardial infarction in women. Chairperson of dissertation committee. February 1995.

Madeline Murguia Rice. Department of Epidemiology. Phytoestrogens and bone mineral density among postmenopausal Japanese-American women: the Nikkei Bone Density Study. Chairperson of dissertation committee. 1993-June 1999.

Jean Shapiro. Department of Epidemiology. Diuretic use and other risk factors for renal cell carcinoma. Committee member. October 1996.

4. Independent Studies:

Michael del Aguila. Department of Epidemiology. Conducting randomized controlled clinical trials in older populations. Summer quarter, 1994.

Sascha Dublin. Department of Epidemiology (MD/PhD program). Women's health: selected topics, guided analytic projects. Summer quarter, 1995.

Maggie Baker and Shelly Gray. Department of Epidemiology. Epidemiologic research in aging populations. Spring quarter, 1999.

5. Post-doctoral fellows:

Katherine M. Newton. Center for Health Studies, Group Health Cooperative. 1995-1997.

Jeannette Beasley. NIA T32 Postdoctoral Fellow in "Healthcare Improvement for Aging Women" Training Program. April 2008-present.

### **Other Teaching**

August 1989-94      15th-20th Annual 10-Day Seminars on Cardiovascular Epidemiology sponsored by the American Heart Association and the National Heart, Lung and Blood Institute. Faculty member presenting lectures on "Race, Socioeconomic status and Coronary Heart Disease," "Cardiovascular Disease in the Elderly," and "Sex differences in Coronary Heart Disease."

Also see international teaching and consultation on page 4.

### **Fred Hutchinson Cancer Research Center Service**

Member of FHCRC Institutional Conflict of Interest Committee. 2005-present.

Chairperson of promotion committee for Kathy Malone's promotion to full professor; 2006-2006.

Speaker in FHCRC Development Program: November 2006, Bellevue Club, Bellevue, WA.

### **University Service**

University of Washington, School of Public Health and Community Medicine. Chairperson of an ad hoc Committee on Women's Health convened by Dean Omenn (January 1994 - December 1995)

**Group Health Cooperative Service**

Member of GHC's Committee on Prevention. 1995-2004.

Member of GHC's Guideline Review Group. June 1998-July 2004.

Member of Center for Health Studies, Scientific Policy Committee. August 1998-July 2000.

Member of the Lifetime Health Monitoring Committee that works on innovation and redesign of preventive services at Group Health. 1994-1996.

Member of the Osteoporosis Clinical Guideline Committee that has developed an evidence-based guideline for the primary and secondary prevention of osteoporosis and fracture at Group Health. 1995-1999.

Member of Steering Committee, Cardiovascular Health Research Unit, 1993-2006.