

CURRICULUM VITAE

NAME: Hovinga, Mary E.

BUSINESS ADDRESS & PHONE:

School of Public Health at Drexel University

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EDUCATION:

University of Michigan
Ann Arbor, Michigan

B.S. - 1978 (Biology)

University of Michigan
Ann Arbor, Michigan

M.P.H. - 1983 (Toxicology)

University of Michigan
Ann Arbor, Michigan

Ph.D. - 1990 (Epidemiology)

POSITIONS HELD:

June 1, 2006 -

Associate Dean for Academic Affairs
Drexel University School of Public Health

1998 - 2006

Associate Professor
Department of Epidemiology
UAB School of Public Health

1999 – 2005

Chair, Faculty Assembly
UAB School of Public Health

Jan. 1, 2003 – August 31, 2004

Interim Chair
Department of Epidemiology
UAB School of Public Health

1990 – 1998

Assistant Professor
Department of Epidemiology
UAB School of Public Health

POSITIONS HELD (Continued):

1990 - Present	Associate Scientist UAB Comprehensive Cancer Center
1993 - Present	Associate Scientist Civitan International Research Center Birmingham, Alabama
1999 – Present	Sparkman Center Scholar Sparkman Center for International Public Health Education University of Alabama at Birmingham
1992, 1997-2004	Adjunct Associate Professor Department of Epidemiology University of Michigan
1988 - 1990	Graduate Research Assistant University of Michigan
1983 - 1988	Associate Research Scientist Pharmacology Department Warner-Lambert/Parke-Davis Ann Arbor, Michigan
1978 - 1981	Research Assistant Department of Physiology University of Michigan

MEMBERSHIPS IN PROFESSIONAL AND SCHOLARLY ORGANIZATIONS

American Public Health Association

AWARDS AND HONORS

President's Award for Excellence in Teaching, University of Alabama at Birmingham, 1994
Delta Omega Public Health Honor Society, 2001
National Innovative Public Health Curriculum Award, Delta Omega National Public Health
Honor Society, 2002
President's Award for Excellence in Teaching, University of Alabama at Birmingham, 2003

MAIN AREAS OF RESEARCH OR SCHOLARLY INTEREST

Mental retardation - surveillance and etiology
Environmental epidemiology
Human health effects of heavy metals, PCBs, DDT

TEACHING ACTIVITIES

Course Director:

Environmental Epidemiology	UAB, 1991 – Present
Integrated Core in Public Health	UAB, 2004-2005
Introductory Epidemiology	UAB, 1993 – 2000
Epidemiology of Chronic Diseases	UAB, 2003, 2004
Doctoral Seminar in Epidemiology	UAB, 1992-1993, 1998
Health Services for Populations	Creighton University, 2000
Fundamentals of Epidemiology	University of Michigan Graduate Summer Session, 1992, 1997-05

Co-Instructor:

Integrated Core in Public Health	UAB, 2001 – Present
Integrative Experience in Public Health	UAB, 2000 – Present

Guest Lecturer:

Occupational Epidemiology
Historical and Contemporary Issues in Epidemiology
Essentials of Health and Human Disease
Introduction to Public Health
Data Issues and Computer Applications
Fundamentals of Environmental Health
Epidemiology of Chronic Diseases
Issues in Maternal and Child Health
Injury - Epidemiologic Principles and Prevention
Principles and Methods in Molecular Epidemiology

Faculty Advisor:

Epidemiology Student Journal Club 1994-95
Student Government Association 1995-96

Doctoral Dissertation Committees:

Committee Member, “Prevalence of Serum Polychlorinated Biphenyls and Their Effects on Blood Pressure in a Community Environmentally Exposed”, (Dr. Gregory Steele), Department of Epidemiology, University of Alabama at Birmingham, 1990-1991.

Committee Member, “Brain Cancer Mortality Among Video Display Terminal Workers”, (Dr. Colleen Beall), Department of Epidemiology, University of Alabama at Birmingham, 1992-1994.

Committee Member, “Obtaining Confidence Limits in Survival Analysis Using the Pseudo-Binomial Distribution”, (Dr. Traci Clemons), Department of Biostatistics, University of Alabama at Birmingham, 1996-1997.

Committee Member, “Mental Health Among Women in Caregiving Roles: Is Elder Care More Stressful than Child Care?”, (Dr. Lynn Gerald), Department of Sociology, University of Alabama at Birmingham, 1996-97.

Committee Member, “Properties of the Pseudo-Binomial Distribution and Further Exploration of its Applications in Survival Analysis”, (Dr. Liesl Fox), Department of Biostatistics, University of Alabama at Birmingham, 1996-97.

Committee Member, “Early Identification of Children at Risk for Special Education Placement”, (Dr. Sandra Cluett), Department of Psychology, University of Alabama at Birmingham, 1996-1998.

Committee Member, “Family Planning Clinic Characteristics and Their Influence on Contraceptive Behavior and Pregnancy Rates in Alabama, 1994-96”, (Dr. Margie Snively), Department of Maternal and Child Health, University of Alabama at Birmingham, 1998.

Committee Member, “Cognitive Ability and its Influence on Early Childbearing and Second Teen Births Among Younger Adolescent Women.” (Dr. Darlene Shearer), Department of Maternal and Child Health, University of Alabama at Birmingham, 1998-1999.

Committee Member, “The Relationships Among Septic Systems, Private Water Supplies and Incidence of Giardiasis in Florida: An Ecologic Study”, (Dr. Sharon Heber), Department of Environmental Health Sciences, University of Alabama at Birmingham, 1997-1999.

Committee Member, “An Examination of Selected Prenatal WIC Program Components in Alabama Counties with Contrasting Rates of Low Birth Weight”, (Dr. James Langie), Department of Maternal and Child Health, University of Alabama at Birmingham, 1996-2000.

Committee Member, “The Development of a Risk Assessment Methodology to Evaluate the Adverse Human Health Effects of Pathogens Found in Sewage Contaminated Waters”. (Dr. John Easton) Department of Civil and Environmental Engineering, University of Alabama at Birmingham, 1998-2000.

Committee Member, “Mortality and Cancer Incidence in Triazine Herbicide Manufacturing Workers and Methodological Issues in Cancer Incidence Studies of Occupational Groups.” (Dr. Paul MacLennan), Department of Epidemiology, University of Alabama at Birmingham, 1999 – 2002.

Committee Member, “Enhanced Bioremediation of Creosote Contaminated Soil”, (Dr. Jennifer Harper), Department of Civil and Environmental Engineering, University of Alabama at Birmingham, 2000-2002.

Committee Member, “Material Exposure to Chemicals in the Hazardous Waste Sites in Florida and Risk of Congenital Malformations”, (Dr. Alan Rowan), Department of Environmental Health Sciences, University of Alabama at Birmingham, 2000 – 2002.

Committee Member, “A GIS-Based Case-Control Analysis of Cancer Incidence and Land Use Patterns”, (Dr. Steven Dearwent), Department of Environmental Health, University of Alabama at Birmingham, 1998-2004.

Committee Member, “Integrating Qualitative and Quantitative Methods to Understand Determinants of Female Condom Use”, (Dr. Ana Penman-Aguilar), Department of Epidemiology, University of Alabama at Birmingham, 2003 – 2004.

Committee Member, “Variations in Family Level Factors Associated with Emergency Room Visits among Infants and Toddlers in an Early Head Start-Eligible Cohort”, (Dr. Keecha Harris), Department of Maternal and Child Health, University of Alabama at Birmingham, 2003 – 2004.

Committee Member, “Hearing Sensitivity among Anniston Army Depot Workers”, (Ms. Melissa Norman), Department of Environmental Health Sciences, University of Alabama at Birmingham, 2004-Present.

Committee Member, “Geographic Study of Childhood Cancers Near Hazardous Waste Sites in Florida”, (Mr. Gregory Kearney), Department of Environmental Health Sciences, University of Alabama at Birmingham, 2004-Present.

School
Committee Membership:

Chair, Curriculum Review Subcommittee, Department of Epidemiology, University of Alabama at Birmingham, 1994-1996.

Faculty Review Panel, Master’s Degree Admissions, Department of Epidemiology, University of Alabama at Birmingham, 1995-1996.

Member, Excellence in Teaching Award Committee, School of Public Health, University of Alabama at Birmingham, 1995-1996.

Member, Educational Policy Committee, School of Public Health, University of Alabama at Birmingham, 1995-2005.

Director of MPH Admissions, Department of Epidemiology, University of Alabama at Birmingham, 1996-2004.

Member, Executive Committee, School of Public Health, University of Alabama at Birmingham, 1999-2005.

Member, Dean Search Committee, School of Public Health, University of Alabama at Birmingham, 2000-2001.

Member, Strategic Planning Committee, School of Public Health, University of Alabama at Birmingham, 2001-2002.

Member, Ad Hoc Committee for Interdepartmental International Health Curricula, UAB School of Public Health, 2003.

Member, Epidemiology Chair Search Committee, UAB School of Public Health, 2002 – 2004.

Member, Financial Aid Committee, UAB School of Public Health, 2004-Present.

Member, MPH Admissions Committee Department of Epidemiology, UAB School of Public Health, 2004 – Present.

**Community
Committee Memberships:**

Scientific Advisory Committee. Legal Environmental Assistance Foundation. 1993-Present.

Member, Surveillance Subcommittee, Office of Prevention at Civitan International Research Center, Alabama Department of Mental Health and Mental Retardation, 1993-Present.

Member, Research Plan Committee, State Superintendent's Task Force on Student Representation in Special Education. 1994-1996.

Member, Research Plan Subcommittee, State Superintendent's Task Force on Special Education, Alabama Department of Education, 1995.

Member, Joint Legislative Study Committee to Evaluate the Needs of Individuals with Developmental Disabilities and their Families, State of Alabama, 1995-1996.

Member, ATSDR Expert Panel. Exploring Opportunities for PCB-Related Health Studies in Anniston, Alabama. 2001-2002.

Member, Scientific Advisory Committee Member, Anniston / Calhoun PCB Health Study, 2003 – Present.

Conferences, Speeches and Lectures:

Participant, International Working Conference. Evaluating Risks to Human Health Associated with Exposure to Toxic Chemicals in the Great Lakes Basin Ecosystem. Sponsor: Great Lakes Program, State University of New York at Buffalo. Buffalo, New York, 1989.

Participant, International Workshop on Planning Phase III Studies for the Great Lakes Health Effects Cohort Study. Sponsor: Health and Welfare Canada. Ottawa, Ontario, 1991.

Speaker, Emerging Issues and Concerns in the Great Lakes. Sponsors: Institute of Water Research and Michigan State University. East Lansing, Michigan, 1992.

Speaker, Health and Environment Seminar Series. Sponsor: Association of State and Territorial Health Officials. Sacramento, California, 1993.

Speaker, "Mental Retardation Surveillance and Prevention Programs in Alabama", Centers for Disease Control, Atlanta, Georgia, February 1996.

Speaker, "Surveillance Issues and Methods," Alabama Governor's Advisory Panel for the Prevention of Disabilities, Birmingham, Alabama. October, 1996.

Speaker, "Mental Retardation in Alabama", Epidemiology Seminar Series, University of Alabama at Birmingham, December, 1996.

Speaker, "Pesticide Exposure and Childhood Cancers," Association of Structural Pest Control Regulatory Officials, Scottsdale, Arizona, August, 1998.

Instructor, Arkansas Academy for Public Health Leadership, Little Rock, Arkansas, March 1999 - 2004.

Speaker, "State Capacity Building for the Prevention of MR/DD", Association of Retarded Citizens, National Conference, Birmingham, Alabama, October, 2000.

Instructor, "Introduction to Epidemiology" South Central Center for Public Health Preparedness, December, 2004.

PROFESSIONAL SERVICE

Professional Organizations:

Elected Member, Governing Council, American Public Health Association. 1997-1999.

Journal Peer Review:

Journal of Biological Monitoring
Archives of Environmental Contamination & Toxicology
American Journal of Public Health
American Journal of Obstetrics & Gynecology
Epidemiology
Environmental Science and Technology

Grant Proposal Review:

National Institute of Environmental Health Sciences
Michigan Great Lakes Protection Fund
EARTH Center, Intramural Grants Program, University of Alabama at Birmingham
Association of Schools of Public Health, Fellowship Program
Michigan Sea Grant Program

PUBLICATIONS:

Boctor, A.M., Burke, C., Hovinga, M.E. Arachidonic acid-induced pleurisy: An in vivo model for testing 5-lipoxygenase inhibition. *Meth and Find Expt Clin Pharmacol* 9(12):793-797, 1987.

Cole, P., Hovinga, M.E. Hormone residues in meat products. *Cancer Prevention, Supl* (May) 1-7, 1991.

Proceedings of the Workshop on Planning Phase III Studies for the Great Lakes Health Effects Cohort Study. *Chron Dis Canada Supl.* 12(6):20-23. 1991.

Hovinga, M.E., Sowers, M., Humphrey, H.E.B. Historical changes in serum PCB and DDT levels in an environmentally-exposed cohort. *Arch Environ Contam Toxicol* 22(4):362-366. 1992.

Hovinga, M.E., Sowers, M., Humphrey, H.E.B. Environmental exposure and lifestyle predictors of lead, cadmium, PCB and DDT levels in Great Lakes fish eaters. *Arch Environ Health* 48(2):98-104. 1993.

Delzell, E., Sathiakumar, J., Hovinga, M., Macaluso, M., Julian, J., Larson, R., Cole, P. Muir, D.C.F. A follow-up study of synthetic rubber workers. *Toxicology.* 113:182-189. 1996.

Macaluso, M., Larson R., Delzell, E., Sathiakumar, N., Hovinga, M., Muir D., Jullian, J., Cole P. Leukemia and cumulative exposure to butadiene, styrene and benzene among workers in the synthetic rubber industry. *Toxicology.* 113:190-202. 1996.

Sathiakumar N., Delzell, E., Hovinga, M., Macaluso M., Julian J., Larson R., Cole, P., Muir D.C.F. Mortality from cancer and other causes of death among synthetic rubber workers. *Occup Environ Med.* 55(4):230-235. 1998.

Redden S.C., Mulvihill B.A., Wallander, J., Hovinga, M.E. Applications of developmental epidemiological data linkage methodology to examine early risk for childhood disability. *Developmental Reviews.* 20:319-349. 2000.

Petersen D.J., Ginter P.M., Hovinga M.E., Williams O.D., Jacobs R., Davies S. Public health case studies: A new MPH requirement bridging academia and practice. *Public Health Management and Practice.* 7(3):86-91. 2001.

Shearer, D.L., Mulvihill, B.A., Klerman, L.V., Wallander, J., Hovinga, M.E., Redden, D. Association of early childbearing and low cognitive ability. *Persp on Sexual and Reprod Health*. 34(5):236-243. 2002.

Petersen D.J., Hovinga M.E., Pass M.A., Kohler C., Oestenstad R.K., Katholi C. Assuring public health professionals prepared for the future: The UAB Public Health Integrated Core Curriculum. *Public Health Reports*. 120:496-503. 2005.

SUBMITTED MANUSCRIPTS

Kohler C.L., Davies S., Petersen D.J., Hovinga M.E., Pass M.A., Garfinkel M., Cheney S. Integrating public health disciplines: The case for tobacco in innovative curriculum development.

Rowan A., Roy D., Hovinga M.E. Maternal exposure to chemicals in the hazardous waste sites in Florida and risk of birth defects.

Bernstein S.A., Agee B.S., Hovinga M.E. The prevalence of high-risk behaviors in a racially/ethnically diverse group of military junior high school students.

TECHNICAL REPORTS:

Hovinga, M.E., Methodology for the evaluation of over-identification and racial disproportionality in special education in Alabama. Submitted to the Alabama Department of Education, January, 1995.

Lead author. Special Education Research Group. Comparisons within the State and across the southeastern region. Submitted to the Alabama Department of Education, April, 1995.

Hovinga, M.E., Brezausek C., Ireland, B., Ramey, C.T. Special education enrollment in Alabama: A survey of Multidisciplinary Eligibility Decision Committee reports to evaluate the criteria for placement of children with a diagnosis of mental retardation. Submitted to the Alabama Department of Education, September, 1995.

Hovinga, M.E. Correlates of mental retardation prevalence in Alabama. Submitted to the Alabama Department of Education, October, 1996.

ABSTRACTS:

Boctor, A.M., Eickholt, M.M., Hovinga, M.E., Pugsley, T.A. 1984. Modulation of arachidonic acid metabolism by the anti-allergy compound CI-922. Presented at ASPET Indianapolis, Indiana.

Boctor, A.M., Burke, C.E., Hovinga, M.E. 1985. Evaluation of arachidonic acid-induced pleurisy model for testing inhibitors of arachidonic acid metabolism. Presented at ASPET, Boston, Massachusetts.

Boctor, A.M., Hovinga, M.E., Pugsley, T.A. 1986. Cyclooxygenase inhibition by isoxicam. In-vitro and in-vivo studies. Presented at FASEB, St. Louis, Missouri.

Boctor, A.M., Hovinga, M.E. 1986. Comparison of in-vivo models for testing inhibitors of arachidonic acid metabolism. Presented at the Third International conference, Inflammation Research Association, Philadelphia, Pennsylvania.

Boctor, A.M., Hovinga, M.E. 1988. Meclomen effects on phospholipase A2. Presented at FASEB, Las Vegas, Nevada.

Campbell, V.A., Hovinga, M.E., Brezausk, C., Ramey, C.T. 1994. Surveillance and ecologic predictors of mental retardation in Alabama. Presented to American Public Health Association, Washington, D.C.

Mulvihill, B.A., Brezausk, C., Sullivan, L.A., Cluett S.E., Hovinga, M.E. 1995. Record-linkage methodology for identifying children at risk for special education placement in Alabama. Presented to American Public Health Association, San Diego, California.

Hovinga, M.E., East, B., Causey, J. 1996. An examination of the disability determination process for mental retardation. Implications for statewide testing and diagnostic practices. Presented to American Public Health Association, New York, New York.

Campbell, V.A., Hovinga, M.E. 1996. Variation in concurrent and historical mental retardation prevalence within and between school systems. Presented to American Public Health Association, New York, New York.

Campbell, V.A., Hovinga, M.E., Brezausk, C. 1996. Alabama's Mental Retardation Surveillance Program: Interagency administrative ascertainment across the lifespan. Presented to Maternal Infant, and Child Health Epidemiology Workshop, Centers for Disease Control and Prevention, Atlanta Georgia.

Hovinga, M.E., 1997. Mental retardation across counties and states: Ecological analysis of predictors. Presented to American Psychological Association, Chicago, Illinois.

Hovinga, M.E., 1998. The relevance of epidemiologic methods to the study of mental retardation Gatlinburg Conference for Research on Mental Retardation and Developmental Disabilities. Presented, Charleston, South Carolina.

Wallander, J., Dossett, E., Shearer, D., Hovinga, M., Brezausk, C. 1998. School drop-out and transitions in adolescents with a disability. Southeastern American Association for Mental Retardation, Birmingham, AL.

Hovinga, M.E., MacLennan, P., Redden, D. 1999 Within-state and among-state variation in mental retardation prevalence: An ecological analysis of population risk factors. Gatlinburg Conference for Research on Mental Retardation and Developmental Disabilities. Presented, Charleston, South Carolina.

Mulvihill B.A., Redden S.C., Hovinga M.E., Brezausek C. 2000. Creating risk profiles for special education placement. Association for Mental Retardation, International Conference. Seattle, Washington.

Petersen D., Capper S., Hovinga M., Kohler C., Katholi C., Oestenstad K. 2001 The integrated public health core curriculum. Association for Teachers of Preventive Medicine. Savannah, Georgia.