

**Annual Report
July 1, 1996 - June 30, 1997
Department of Epidemiology**

I. Departmental Organization and Administration

Staff as of June 30, 1997

Administrative Staff

Gail King, Administrative Manager
Carolyn Cooke, Fiscal Manager
Lesa McPherson, Human Resources Manager
Nancy Colvin, Student Services Manager
Terry Hudgins, Director, Computer Services
Betsy Seagroves, Administrative Secretary
Carmen Woody, Student Services Assistant
Amy Crume, Accounting Technician
Susan King, Accounting Clerk

Secretarial Staff

Anne Bean, Office Assistant
Jane Foust, Office Assistant
Edna Lennon, Office Assistant
Carol Morton, Office Assistant
Sharon Pope, Office Assistant
Virginia Reid, Office Assistant

Research Staff

Susanne Wolf, Research Associate
Philip Bors, Social Research Associate
Catherine Paton, Social Research Associate
Kathryn Shriberg, Social Research Associate
Darrah Degnan, Social Research Assistant
Marilyn Knowles, Social Research Assistant
Jadis Robinson, Social Research Assistant
Phyllis Johnson, Administrative Assistant
Heather Bergen, Research Technician
Deanne Rhodes, Research Technician
Boyd Yount, Research Technician

Computer Programming Staff

Eileen Gregory, Applications Analyst Programmer
Richard Howard, Applications Analyst Programmer
Robert Kleckner, Applications Analyst Programmer
Vic Rhodes, Applications Analyst Programmer
Joanna Smith, Applications Analyst Programmer
Jessica Tse, Applications Analyst Programmer
Joy Wood, Applications Analyst Programmer
Veda Manley, Computer Production Specialist

Employee Terminations

Patrice Robbins, Accounting Clerk
Esa Bloedon, Office Assistant
Tammie Carlton, Social Research Assistant
Girard Salak, Social Research Assistant
Catherine VanDoren, Staff Clinic Nurse
Natalie Young, Research Technician
Ans Janssens, Applications Programmer

II. Faculty and Students

A. List of Faculty [* indicates primary of multiple academic appointments]

1. Full-time

Lorraine Alexander, Clinical Assistant Professor
Ralph S. Baric, *Associate Professor, Epidemiology; Associate Professor,
Microbiology & Immunology
Elizabeth Conlisk, Research Assistant Professor
Kathleen Dorsey, Research Assistant Professor
Hilton Goulson, Emeritus Professor
J. Ed Hall, *Associate Professor, Epidemiology; Associate Professor, Pathology
Maria Hall, Clinical Assistant Professor
Gerardo Heiss, Professor
Irva Hertz-Picciotto, Associate Professor
Barbara S. Hulka, *Kenan Professor; Clinical Professor, Family Medicine; Adjunct
Professor of Community and Family Medicine, Duke University Medical Center
Michel A. Ibrahim, Dean, School of Public Health; *Professor, Epidemiology;
Professor, Social and Administrative Medicine
Berton H. Kaplan, Professor

Lenore Kohlmeier, Professor, Epidemiology; *Professor, Nutrition
Eugene Lengerich, Research Assistant Professor
Duangping Liao, Research Assistant Professor
Edison Liu, Professor, Epidemiology; * Professor, Medicine
Dana Loomis, Assistant Professor
Robert Millikan, Assistant Professor
Beth Newman, Assistant Professor
Andrew Olshan, Assistant Professor
James Pankow, Assistant Professor
Wendie Robbins, Assistant Professor, Epidemiology; *Clinical Assistant Professor,
Curriculum in Public Health Nursing
Wayne Rosamond, Assistant Professor
Rachel Royce, Assistant Professor
David A. Savitz, Professor
Victor J. Schoenbach, Associate Professor
J. Richard Seed, Professor Cecil G. Sheps (Emeritus), Professor, Epidemiology;
*Professor, Social and Administrative Medicine
Carl M. Shy, *Professor & Chair, Epidemiology; Professor, Environmental Sciences
and Engineering; Clinical Professor, Family Medicine
Lola Stamm, Associate Professor
June Stevens, Associate Professor, Epidemiology; *Associate Professor, Nutrition
James Thomas, Assistant Professor
Herman A. Tyroler, Emeritus, Alumni Distinguished Professor
Marilyn Vine, Assistant Professor
David Weber, Associate Professor, Epidemiology; *Associate Professor, Medicine
Kristen Weigle, *Associate Professor, Epidemiology; Associate Professor, Pediatrics
Steven B. Wing, Associate Professor

2. Part-time

Christine Moe, Assistant Professor

3. Visiting

Rajinder Bhopal visiting from University of New Castle, Upon Tyme, United
Kingdom

4. Adjunct and Fixed-Term Joint Appointments

Timothy Aldrich, Adjunct Assistant Professor
Naomar Almeida-Filho, Adjunct Associate Professor
Elizabeth Andrews, Adjunct Assistant Professor
Michael H. Arrighi, Adjunct Assistant Professor

Donna Baird, Adjunct Assistant Professor
John Barefoot, Adjunct Associate Professor
James C. Barrett, Adjunct Professor
James Beck, Adjunct Professor; *Professor, Dental Ecology
Douglas Bell, Adjunct Associate Professor
Richard A. Berzon, Adjunct Assistant Professor
Dan German Blazer, Adjunct Professor
Brian A. Boehlecke, Clinical Associate Professor; *Associate Professor, Medicine
W. Eugene Broadhead, Adjunct Assistant Professor
Robert Brown, Clinical Assistant Professor; *Assistant Professor, Medicine
Gregory Burke, Adjunct Professor
Leigh Callahan, Adjunct Assistant Professor
Dan Caplan, Clinical Assistant Professor; *Assistant Professor, Dental Ecology
Timothy S. Carey, Clinical Associate Professor; *Associate Professor, Medicine
Willard Cates, Adjunct Professor
Dennis A. Clements, III, Adjunct Assistant Professor
Thomas Cole, Adjunct Assistant Professor
Glinda Cooper, Adjunct Assistant Professor
Joan Cornoni-Huntley, Adjunct Professor
John R. Crouse, Adjunct Associate Professor
Gordon H. DeFriese, Clinical Professor, Epidemiology; *Professor, Social and
Administrative Medicine
Robert Desowitz, Adjunct Professor
Sara Ephross, Adjunct Assistant Professor
Arthur Evans, Clinical Associate Professor; *Associate Professor, Medicine
Richard B. Everson, Adjunct Professor
Paul Feldblum, Adjunct Assistant Professor
Jo-David Fine, Clinical Professor, Epidemiology; *Professor, Dermatology
Suzanne Fletcher, Clinical Professor
Judith A. Fortney, Adjunct Professor
Jean French, Adjunct Professor
Joanne Garrett, Adjunct Assistant Professor; *Research Associate Professor, Sheps
Center for Health Services Research
Peter Garrett, Adjunct Assistant Professor
Paul Godley, Clinical Assistant Professor
Raymond S. Greenberg, Adjunct Professor
Jack Griffith, Adjunct Professor
Harry A. Guess, Adjunct Professor
Abraham Hartzema, Clinical Professor; *Professor, Pharmacy

Curtis G. Hames, Clinical Professor
Russell P. Harris, Adjunct Assistant Professor; *Assistant Professor, Medicine
Ronald J. Hunt, Clinical Professor; *Professor, Dental Ecology
Nancy Hunter, Adjunct Assistant Professor
Debra E. Irwin, Adjunct Assistant Professor
Sherman James, Adjunct Professor
David Jenkins, Adjunct Professor
Ulrich Keil, Adjunct Professor
Suzanne Landis, Adjunct Associate Professor; *Clinical Assistant Professor,
Medicine
Denise Lewis, Adjunct Assistant Professor
Ruth E. Little, Adjunct Professor
Stephanie London, Adjunct Associate Professor
Matthew Longnecker, Adjunct Associate Professor
J. Newton MacCormack, Adjunct Associate Professor
Peter Margolis, Clinical Assistant Professor; *Assistant Professor, Pediatrics
Margaret F. McCann, Adjunct Assistant Professor
William F. McDonnell, Adjunct Associate Professor
Michael McMahon, Clinical Assistant Professor; *Assistant Professor, OB/GYN
Melinda S. Meade, Adjunct Professor, Epidemiology; *Professor, Geography
Dexter Morris, Adjunct Assistant Professor; *Assistant Professor, Emergency
Medicine
Michael Moser, Adjunct Associate Professor
Azmi A. Nabulsi, Adjunct Assistant Professor
Joseph Norwood, Clinical Professor; *Professor, Pharmacy
George R. Parkerson, Adjunct Associate Professor
Miquel Porta, Adjunct Associate Professor
David F. Ransohoff, Clinical Professor; *Professor, Medicine
Walter J. Rogan, Adjunct Associate Professor
Bonnie Rogers, Clinical Associate Professor
Michael J. Rosenberg, Adjunct Associate Professor
Andrew Rowland, Adjunct Assistant Professor
Carol Runyan, Adjunct Associate Professor; *Associate Professor, Health Behavior
and Health Education
Desmond K. Runyan, Clinical Associate Professor; *Associate Professor, Social
and Administrative Medicine
Gregory Samsa, Adjunct Assistant Professor
Dale Sandler, Adjunct Professor
Robert S. Sandler, Clinical Professor; *Professor, Medicine
Vilma Santana, Adjunct Assistant Professor

William Saunders, Adjunct Assistant Professor
Joellen M. Schildkraut, Adjunct Assistant Professor
Pamela Schwingl, Adjunct Assistant Professor
David Sheps, Clinical Professor; *Professor, Cardiology
Ilene C. Siegler, Adjunct Associate Professor
Gary Slade, Clinical Assistant Professor
Betsy Sleath, Clinical Assistant Professor; *Assistant Professor, Pharmacy
Philip Sloane, Clinical Professor; *Professor, Family Medicine
David C. Sokal, Adjunct Professor
C. Gregory Smith, Adjunct Assistant Professor
John Stamm, Adjunct Professor; *Professor and Dean, Dentistry
Paul E. Stang, Adjunct Assistant Professor
Ronald Strauss, Clinical Professor
David Strogatz, Adjunct Associate Professor
Jack Taylor, Adjunct Assistant Professor
Patricia Tennis, Adjunct Assistant Professor
Hugh H. Tilson, Adjunct Professor
James F. Toole, Adjunct Professor
Edward H. Wagner, Clinical Professor
Emmanuel Walter, Adjunct Assistant Professor
Jane Weintraub, Adjunct Associate Professor
Sue West, Adjunct Assistant Professor
Alice White, Adjunct Assistant Professor
Timothy Wilcosky, Adjunct Assistant Professor
Allen J. Wilcox, Adjunct Professor
Mark E. Williams, Clinical Associate Professor, Epidemiology; *Associate Professor,
Medicine
Redford Williams, Adjunct Professor
Bonnie C. Yankaskas, Adjunct Assistant Professor; *Assistant Professor, Radiology

B. Changes During the Year

1. Additions

James Pankow, Assistant Professor.

2. Promotions

James Thomas from Assistant Professor to Associate Professor with tenure.
Andrew Olshan from Assistant Professor to Associate Professor with tenure.
Dana Loomis from Assistant Professor to Associate Professor with tenure.

3. Leaves

None.

4. Losses

Patricia Moorman, Research Assistant Professor (resignation).

Berton H. Kaplan, Professor (retirement).

Carl M. Shy, Professor (retirement).

H. A. Tyroler, Professor (retirement).

C. Special Achievements of Faculty

Barbara Hulka delivered the Wade Hampton Frost Lecture at the Association of Public Health Meeting in November 1996.

H. A. Tyroler delivered the Ancel Keys Lecture at the 1996 Annual Meeting of the American Heart Association.

Dana Loomis received a Fulbright grant for research and teaching in Environmental and Occupational Epidemiology, at the Instituto Nacional de Salud Publica de Mexico.

D. Special Achievements of Students

Erin Bell received the Cornoni-Huntley Scholarship, fall 1996.

Tamera Coyne-Beasley was the Delta Omega Honor Society inductee, April 1997.

Anneclaire DeRoos received an Arthritis Foundation Grant from the Aging Institute.

Emily Devoto received a Postdoctoral Fellowship from NCI.

Eric Duell, Society for Epidemiologic Research Student Workshop, Boston, 1996.

John Elter received a fellowship from the Cecil G. Sheps Center for Health Services Research, 1997.

Kelly Evenson received a Technology Teaching Supplement Award from the UNC Center for Teaching and Learning, spring 1997.

John Grabenstein is a member of the Advisory Board of the Immunization Action Coalition, a national coalition of professionals and civic leaders seeking to protect adults, adolescents, and children from preventable infections.

Pamela Marcus made presentations to the Society for Epidemiologic Research in June 1997; and to the North Carolina Cancer Symposium; was a Delta Omega Honor Society inductee, April 1997; and received a Postdoctoral Fellowship from NCI, 1997.

Steven Marshall, received a grant: "*The cost of sports injury*," Weaver NL (PI), Marshall SW, Waller AE, Mueller FO, Miller TR, Spicer RS. Funded by UNC Injury Prevention Research Center, January 1, 1997-December 31, 1998, \$9751.

Dwight McFadden was a Delta Omega Honor Society inductee, April 1997.

Rosemary McKaig was a UNC Center for Health Promotion and Disease Prevention Trainee.

Michelle Mendez received the Delta Omega Student Book Award, April 1997.

William Miller was a Delta Omega Honor Society inductee, April 1997; received the CAP (Clinical Associate Physician) Award from the National Center for Research Resources, NIH.

Lisa Pastore was a Delta Omega Honor Society inductee, April 1997; was awarded a Graduate School On-Campus Dissertation Fellowship, spring 1997; Agency for Health Care Policy and Research, *Predictors of urinary tract infection during pregnancy*, 9/1/95-12/31/96.

Beverly Rockhill won the Carolina Society of Fellows Award, May 1996-May 1997; was a Delta Omega Honor Society inductee, April 1997; received the Society for Epidemiologic Research Abraham Lilienfeld Award for best student paper, "*Population Attributable Fraction Estimation for Established Breast Cancer Risk Factors*," spring 1997; was awarded a Postdoctoral Fellowship in Cancer Prevention and Education, Harvard University, 1997-1999; and received a Sidney Kark Graduate Assistant Award, spring 1996.

Jane Schroeder, received a Sidney Kark Graduate Assistant Award, spring 1997; was awarded a National Institutes of Health, National Cancer Institute Small Research Grant, "*Epidemiology of t(14;18) in non-Hodgkin's lymphoma*," July 1, 1996 - June 30, 1998; won the Lineberger Comprehensive Cancer Center Cancer Prevention and Control and Cancer Epidemiology Research Award for "*A pilot study of risk factors for t(14;18) positive non-Hodgkin's lymphoma*," April 1, 1996 - September 30, 1997.

Gayle Shimokura was awarded a dissertation grant by Ortho Diagnostics, \$15,000.

Diane Marie St. George, was awarded a Technology Teaching Supplement Award, UNC Center for Teaching and Learning, spring 1997.

Kimberly Truesdale was awarded a Predoctoral Fellowship with the Cecil G. Sheps Center for Health Services Research, June 1, 1997 - May 31, 1998.

Marilyn Tseng was the School of Public Health Alumni Association Epidemiology Student Honoree, spring 1997.

Yvonne Wasilewski was awarded a Postdoctoral Fellowship by the Cecil G. Sheps Center for Health Services Research, to develop a prototype for a partnership to manage asthma in public middle schools in the State of North Carolina.

Alicia Wilson was elected Postgraduate Officer, American Pharmaceutical Association, 1997-1998; and was awarded the American Fellows for Pharmaceutical Education Fellowship, 1996-1998.

Karin Yeatts received a Health Promotion Disease Prevention Traineeship, 1996-1998; was awarded a Health Promotion Disease Prevention mini-grant, \$3000, January 1997; a Minority Health Research and Education Center grant, \$4988, for "*Indoor Air Pollutants as Risk Factors for Asthma and Asthma-like Symptoms in an Urban/Suburban African-American Community*"; made a Society for Epidemiologic Research presentation, "*The Prevalence and Severity of Asthma and Asthma-like Symptoms in African-American and White Children*," June 1997; and made a poster presentation at the American Thoracic Society, "*The Healthcare Utilization and Medication Use among African-American and White Children with Asthma and Asthma-like Symptoms in Charlotte, NC*," May 1997.

III. Instructional Programs

A. Major Changes in Courses or Curricula

New Courses:

EPID 213 -- *Epidemiologic Surveillance in Public Health*

EPID 261 -- *Obesity Epidemiology* (cross-listed with NUTR 361)

EPID 262 -- *Diet and Cancer* (cross-listed with NUTR 362)

EPID 303 -- *Seminar in Oral Epidemiology*

EPID 369 -- *Readings in Methods for Epidemiology*

EPID 390 -- *Epidemiology Doctoral Seminar*

B. New Programs or Deletions Made

None.

C. Changes in Learning Objectives

1. Perspective

The development of an epidemiological perspective is essential to the conceptualization of problems and the application of knowledge. Graduates of the department of epidemiology are expected to have an appreciation of the origins and goals of epidemiology as the basic science of public health, and of its methods, capabilities, limitations, and contrasts with related fields. Students should understand basic etiologic and prevention principles which underlie problems in public health. Subjects that help build such an appreciation include the philosophy of science, the history of epidemiology, studies of the role of epidemiology in prevention of disease, evaluation of programs, the ethical aspects of defining research questions and methods, as well as basic biological, social, and physical sciences.

2. Knowledge

Graduates of the department of epidemiology are expected to have an understanding of the leading causes of death and disability. In addition, a general background in health-related sciences and multidisciplinary understanding of specific areas of research are important.

3. Skills

Graduates of the department of epidemiology are expected to acquire diverse skills. Although the depth and breadth of specific skills acquired by different students will vary, the following are all considered to be fundamental:

- a) **MEASUREMENT:** Measurement of health behaviors, conditions and exposures in populations.
- b) **ANALYSIS:** Sources of error, statistical inference, data analysis and interpretation.
- c) **WEIGHING EPIDEMIOLOGIC EVIDENCE:** Critical reading and synthesizing of information. This should include an understanding of mechanisms and techniques in basic biologic and social sciences.
- d) **PROPOSAL DEVELOPMENT:** Specification of research hypotheses, study populations, measurement tools, analysis strategies; ethical issues in research involving human subjects.
- e) **STUDY DESIGN AND EXECUTION:** Protocol development, subject recruitment, instrumentation, data collection, quality assessment and control.
- f) **COMMUNICATION:** Reporting and communicating study results, including presentation of findings in professional and lay public settings.

4. Practice of Epidemiology

Development of skills for teaching, consultation, writing and review of proposals and manuscripts, participation in professional meetings, and working with public health agencies and community groups. Skills and experience should also be developed in professional ethics, working with multidisciplinary research teams, continuing professional development, and communication with the lay public.

D. Special Courses or Programs Offered

In the spring semester of 1997, the introductory epidemiology course, EPID 160, was offered for the first time in the distance learning format to 42 students at six sites, three in North Carolina and three CDC sites (Atlanta, Cincinnati, Morgantown, WV). Students assembled at each site on Tuesdays from 4:00-6:30 pm for 14 weeks. A typical session consisted of a 45-minute lecture given from the Mayes Telecommunication Center followed by autonomous student group discussions on an assigned case study at each of the six sites for the next one hour and twenty minutes. Each session was concluded with a 20-minute plenary session conducted by the two teaching assistants for the course, during which any problems encountered during the group discussions were addressed.

E. Field Training Experience

Field training experience in Epidemiology is not handled through the method of placement with an agency or institution. Students enter the program with satisfactory research experience or work individually with faculty in ongoing research projects.

IV. Research Program

A. Federal, State or Private Research and Training Funds Received

Fetal PCB Exposure, Thyroid Function & Neurodevelopment. **Irva Hertz-Picciotto**, Principal Investigator, National Institutes of Environmental Health Studies, \$539,316.

Pockets of Underimmunization, Prediction and Case Studies. **Kristen Weigle**, Principal Investigator, Association of Schools of Public Health, \$202,790.

Novel Prodrugs for Treatment of Opportunistic Infections. **J. Ed Hall**, Principal Investigator, PHARM-EC, \$53,256.

Bahia-US Environmental Epidemiology Training and Research. **Dana Loomis**, Principal Investigator, FIC, \$370,945.

Preparation and Safety-testing of a Norwalk Virus Inoculum Suitable for Human Challenge Studies. **Christine Moe**, Principal Investigator, GLAXO, \$27,761.

Sub-contract to Kaiser Permanente Division of Research. **Beth Newman**, Principal Investigator, KAISER, \$56,806.

The Second Delay in Accessing Stroke Healthcare (Dash II) Study. **Wayne Rosamond**, Principal Investigator, Glaxo-Wellcome, \$554,191.

Ionizing Radiation and Mortality Among Hanford Workers. **Steven Wing**, Principal Investigator, CDC, \$472,362.

Southeast Halifax Environmental Reawakening. **Steven Wing**, Principal Investigator, NIEHS, \$656,513.

Health Effects of Plutonium. **Steven Wing**, Principal Investigator, Ber-Mont, \$22,549.

Epidemiology Faculty Grants Administered Through Other Departments

Psychosocial Risks and Preterm in African-American Women. **David Savitz**, Principal Investigator, National Institutes of Health, \$122,222 [administered through the Carolina Population Center].

Immunization Assessments of North Carolina Children, 1996-1998. **Kristen Weigle**, Principal Investigator, DEHNR, \$ 292,092 [administered through the Cecil Sheps Research Center].

B. Significant Publications

Ralph S. Baric

Chen, W., & Baric, R. S. (1996). Molecular anatomy of mouse hepatitis virus persistence: coevolution of increased host cell resistance and virus virulence. *Journal of Virology*, 70(6), 3947-60.

Chen, W., Madden, V. J., Bagnell, C. R. Jr, & Baric, R. S. (1997). Host-derived intracellular immunization against mouse hepatitis virus infection. *Virology*, 228(2), 318-32.

Elizabeth Conlisk

Conlisk, E., & Lengerich, E. J.. (1996). An evaluation of the completeness and accuracy of the North Carolina Register of the Blind. *Journal of the Visually Impaired and Blind*, 90(5), 440-5.

K. Conway

Conway, K., Edmiston, S. N., Hulka, B. S., Garrett, P. A., & Liu, E. T. (1996). Internal sequence variations in the Ha-ras variable number tandem repeat rare and common alleles identified by mini-satellite variant repeat polymerase chain reaction. *Cancer Research*, 56(20), 4773-7.

Olshan, A. F., Weissler, M. C., Pei, H., Conway, K., & Anderson, S. (1997). Alterations of the p16 gene in head and neck cancer: Frequency and association with p53, PRAD-1 and HPV. *Oncogene*, 14, 811-8.

Gerardo Heiss

- Arnett, D.K., Tyroler, H. A., Burke, G., Hutchinson, R., Howard, G., & Heiss, G. (1996). Hypertension and subclinical carotid artery atherosclerosis in blacks and whites: The Atherosclerosis Risk in Communities Study. ARIC Investigators. *Archives Internal Medicine*, 156(17), 1983-9.
- Beck, J., Garcia, R., Heiss, G., Vokonas, P. S., & Offenbacher, S. (1996). Periodontal disease and cardiovascular disease. *Journal of Periodontology*, 67(10 Suppl), 1123-37.
- Bovill, E. G., Bild, D. E., Heiss, G., Kuller, L.H., Lee, M. H., Rock, R., & Wahl, P. W. (1996). White blood cell counts in persons aged 65 years or more from the Cardiovascular Health Study: Correlations with baseline clinical and demographic characteristics. *American Journal of Epidemiology*, 143(11), 1107-15.
- Crouse, J. R., Goldbourt, U., Evans, G., Pinsky, J., Sharrett, A. R., Sorlie, P., Riley, W., & Heiss, G. (1996). Risk factors and segment-specific carotid arterial enlargement in the Atherosclerosis Risk in Communities (ARIC) cohort. *Stroke*, 27(1), 69-75.
- Cushman, M., Yanez, D., Psaty, B. M., Fried, L. P., Heiss, G., Lee, M., Polak, J. F., Savage P. J., & Tracy, R.P. (1996). Association of fibrinogen and coagulation factors VII and VIII with cardiovascular risk factors in the elderly: The Cardiovascular Health Study. Cardiovascular Health Study Investigators. *American Journal of Epidemiology*, 143(7), 665-76.
- Duncan, B. B., Metcalf, P., Crouse, J. R., III, Li, R., Sharrett, A. R., Tegeler, C., Tyroler, H. A., & Heiss, G. (1997). Risk factors differ for carotid artery plaque with and without acoustic shadowing. Atherosclerosis Risk in Communities Study Investigators. *Journal of Neuroimaging*, 7(1), 28-34.
- Higgins, M., Province, M., Heiss, G., Eckfeldt, J., Ellison, R. C., Folsom, A. R., Rao, D. C., Sprafka, J. M., & Williams, R. (1996). NHLBI Family Heart Study: Objectives and design. *American Journal of Epidemiology*, 143(12), 1219-28.
- Li, R., Cai, J., Tegeler, C., Sorlie, P., Metcalf, P. A., & Heiss G. (1996). Reproducibility of extracranial carotid atherosclerotic lesions assessed by B-mode ultrasound: The Atherosclerosis Risk in Communities Study. *Ultrasound in Medicine & Biology*, 22(7), 791-9.
- Liao, D., Cai, J., Barnes, R. W., Tyroler, H. A., Rautaharju, P., Holme, I., & Heiss G. (1996). Cardiac autonomic function and the development of hypertension - The ARIC Study. *American Journal of Hypertension*, 9, 1147-56.
- Liao, D., Cai, J., Rosamond, W., Barnes, R., Hutchinson, R., Whitsel, E., Rautaharju, P., & Heiss G. (1997). Cardiac autonomic function and incident coronary heart disease. *American Journal of Epidemiology*, 145, 696-706.
- Liao, D., Cooper, L., Cai, J., Toole, J. F., Bryan, N. R., Shahar, E., Mosley, T., Nieto, J., & Heiss G. (1997). The prevalence and severity of white matter lesions, their relationship with age, ethnicity, gender, and cardiovascular disease risk factors: The ARIC Study. *Neuroepidemiology*, 16, 149-62.

- Pankow, J. S., Folsom, A. R., Province, M. A., Rao, D. C., Eckfeldt, J., Heiss G., Shahar, E., & Wu K. K. (1997). Family history of coronary heart disease and hemostatic variables in middle-aged adults. Atherosclerosis Risk in Communities Investigators and Family Heart Study Research Group. *Thrombosis & Haemostasis*, 77(1), 87-93.
- Schmidt, M. I., Duncan, B. B., Watson, R. L., Sharrett, A. R., Brancati, F. L., & Heiss G. (1996). A metabolic syndrome in whites and African-Americans. The Atherosclerosis Risk in Communities baseline study. *Diabetes Care*, 19(5), 414-8.
- Schmidt, M. I., Watson, R. L., Duncan, B. B., Metcalf, P., Brancati, F. L., Sharrett, A. R., Davis, C. E., & Heiss, G. (1996). Clustering of dyslipidemia, hyperuricemia, diabetes, and hypertension and its association with fasting insulin and central and overall obesity in a general population. Atherosclerosis Risk in Communities Study Investigators. *Metabolism: Clinical & Experimental*, 45(6), 699-706.
- Schreiner, P. J., Heiss, G., Tyroler, H. A., Morrisett, J. D., Davis, C. E., & Smith, R. (1996). Race and gender differences in the association of Lp(a) with carotid artery wall thickness. The Atherosclerosis Risk in Communities (ARIC) Study. *Arteriosclerosis, Thrombosis & Vascular Biology*, 16(3), 471-8.
- Schreiner, P. J., Terry, J. G., Evans, G. W., Hinson, W. H., Crouse, J. R., & Heiss G. (1996). Sex-specific associations of magnetic resonance imaging-derived intra-abdominal and subcutaneous fat areas with conventional anthropometric indices. The Atherosclerosis Risk in Communities Study. *American Journal of Epidemiology*, 144(4), 335-45.
- Shahar, E., Folsom, A. R., Romm, F. J., Bisgard, K. M., Metcalf, P. A., Crum, L., McGovern, P. G., Hutchinson, R. G., & Heiss, G. (1996). Patterns of aspirin use in middle-aged adults: The Atherosclerosis Risk in Communities (ARIC) Study. *American Heart Journal*, 131(5), 915-22.

Irva Hertz-Picciotto

- Arrighi H. M., & Hertz-Picciotto I. (1996). Controlling the healthy worker survivor effect: An example of arsenic exposure and respiratory cancer. *Occupational Environmental Medicine*, 53(7), 455-62.
- Crump, C. E., Earp, J. A., Kozma, C. M., & Hertz-Picciotto, I. (1996). Effect of organization-level variables on differential employee participation in 10 federal worksite health promotion programs. *Health Educ Quarterly*, 23(2), 204-23.
- Farias, P., Borja-Aburto, V. H., Rios, C., Hertz-Picciotto, I., Rojas-Lopez, M., Chavez-Ayala, R. (1996). Blood lead levels in pregnant women of high and low socioeconomic status in Mexico City. *Environmental Health Perspectives*, 104(10), 1070-4.
- Hertz-Picciotto I. (1996). Towards a coordinated system for surveillance of environmental health hazards (commentary). *American Journal of Public Health*, 86, 638-41.
- Hertz-Picciotto, I., Lee, L. W., & Hoyo, C. (1996). HIV test-seeking before and after the restriction of anonymous testing in North Carolina. *American Journal of Public Health*, 86(10), 1446-50.

- Hertz-Picciotto, I., Pastore, L. M., & Beaumont, J. J. (1996). Timing and patterns of exposures during pregnancy and their implications for study methods. *American Journal of Epidemiology*, 143(6), 597-607.
- Sonis, J., & Hertz-Picciotto, I. (1996). Evaluation of confounders in logistic regression modeling (letter). *Family Medicine*, 28, 462-3.
- Steiner, M., Dominik, R., Trussell, J., & Hertz-Picciotto I. (1996). Measuring contraceptive effectiveness: A conceptual framework. *Obstetrics & Gynecology*, 88(3), 1S-7S.
- Steiner, M., Dominik, R., Trussell, J., & Hertz-Picciotto I. (1997). Measuring contraceptive effectiveness: A conceptual framework (reply). *Obstetrics & Gynecology*, 89, 158.
- Suris-Swartz, P. J., Schildkraut, J. M., Vine, M. F., & Hertz-Picciotto, I. (1996). Age at diagnosis and multiple primary cancers of the breast and ovary. *Breast Cancer Research and Treatment*, 41(1), 21-9.
- Symanski, E., & Hertz-Picciotto, I. (1996). Blood lead levels in relation to menopause, smoking and pregnancy history. *Menopause Digest*, 3, 10-4.
- Tomatis, L., Huff, J., Hertz-Picciotto, I., Sandler, D., Bucher, J., Boffetta, P., Axelson, O., Blair, A., Taylor, J., Stayner, L., et al. (1997). Avoided and avoidable risks of cancer. *Carcinogenesis*, 18, 97-105.

Barbara S. Hulka

- Collaborative Group on Hormonal Factors in Breast Cancer (Hulka B. S., member). Breast cancer and hormonal contraceptives: Further results. *Contraception*, 54(S), 1-106.
- Conway, K., Edmiston, S. N., Hulka, B. S., Garrett, P. A., & Liu, E. T. (1996). Internal sequence variations in the Ha-ras variable number tandem repeat rare and common alleles identified by mini-satellite variant repeat polymerase chain reaction. *Cancer Research*, 56(20), 4773-7.
- Hulka, B. S. (1996). Consultants Response: Fear of breast cancer affects HRT compliance. *Patient Care*, 30, 24.
- Hulka, B. S., & Meirik, O. (1996). Research on the menopause. *Maturitas*, 23(2), 109-12.

Berton H. Kaplan

- Kaplan, B. H. (1997). The ties that bind for a lifetime of health. *Psychosomatic Medicine*, 59, 150-1.
- Moss, M. E., Beck, J. D., & Kaplan, B. H., Offenbacher S., Weintraub J. A., Koch G. G., Genco R. J., Machtei E. E., & Tedesco L. A. (1996). Exploratory case-control analysis of psychosocial factors and adult periodontitis. *Journal of Periodontology*, 67(10 Suppl), 1060-9.

Von Dros, D., Williams, R. B., Kaplan, B. H., & Siegler, I. C. (1996). Correlates of perceived social support and equality of interpersonal relationships at mid-life. *International Journal of Aging Human Development*, 43(3), 199-217.

Lenore Kohlmeier

Berg, G., Kohlmeier, L., & Brenner, H. (1997). Use of oral contraceptives and serum beta-carotene. *European Journal of Clinical Nutrition*, 51(3), 181-7.

Kardinaal, A. F. M., Kok, F. J., Kohlmeier L., Martin-Moreno, J. M., Ringstad, J., Gomez-Aracena, J., Mazaev, V. P., Thamm, M., Martin, B. C., Aro, A., et al. Association between toenail selenium and risk of acute myocardial infarction in Europe: The EURAMIC Study. *American Journal of Epidemiology*, 145, 373-9.

Kohlmeier, L., & Mendez M. (1997). Controversies surrounding diet and breast cancer. *Proc Nutrition Soc*, 57, 1-14.

Kohlmeier, L., Mendez, M., McDuffie, J., & Miller, M. (1997). CASI: Computer assisted self interviewing - a multi-media approach to dietary assessment. *American Journal of Clinical Nutrition*, 65(Suppl):1275S-81S.

Kohlmeier, L., Weterings, K. G. C., Kok, F. J. Tea and cancer prevention: An evaluation of the epidemiologic literature. *Nutrition and Cancer*, 27(1), 1-13.

van 't Veer, P., Strain, J. J., Fernandez-Crehuet, J., Martin, B. C., Thamm, M., Kardinaal, A. F., Kohlmeier, L., Huttunen, J. K., Martin-Moreno, J. M., & Kok, F. J. (1996). Tissue antioxidants and postmenopausal breast cancer: the European Community Multicentre Study on Antioxidants, Myocardial Infarction, and Cancer of the Breast (EURAMIC). *Cancer Epidemiology, Biomarkers & Prevention*, 5(6), 441-7.

Eugene J. Lengerich

Conlisk, E., & Lengerich E. J.. (1996). An evaluation of the completeness and accuracy of the North Carolina Register of the Blind. *Journal of Visually Impaired and Blind*, 90(5), 440-5.

Herman, C. J., Lengerich, E. J., & Stoodt, G. (1996). Variation in recommendations for breast and cervical cancer screening among primary care physicians in North Carolina, 1991. *S Medical Journal*, 89(6), 583-90.

Duangping Liao

Liao, D., Barnes, R. W., Chambless, L. E., & Heiss, G. (1996). A computer algorithm to impute interrupted heart rate data for the spectral analysis of heart rate variability--the ARIC study. *Computers & Biomedical Research*, 29(2), 140-51.

Liao, D., Cai, J., Barnes, R. W., Tyroler, H. A., Rautaharju, P., Holme I., & Heiss, G. (1996). Cardiac autonomic function and the development of hypertension - The ARIC Study. *Am J Hypertension*, 9, 1147-56.

Liao, D., Cai, J., Rosamond, W., Barnes, R., Hutchinson, R., Whitsel, E., Rautaharju, P., & Heiss G. (1997). Cardiac autonomic function and incident coronary heart disease. *American Journal of Epidemiology*, 145, 696-706.

Liao, D., Cooper, L., Cai, J., Toole, J. F., Bryan, N. R., Hutchinson, R. G., & Tyroler, H. A. (1996). Presence and severity of cerebral white matter lesions and hypertension, its treatment, and its control. The ARIC Study. Atherosclerosis Risk in Communities Study. *Stroke*, 27(12), 2262-70.

Liao, D., Cooper, L., Cai, J., Toole, J. F., Bryan, N. R., Shahar, E., Mosley, T., Nieto, J., & Heiss G. (1997). The prevalence and severity of white matter lesions, their relationship with age, ethnicity, gender, and cardiovascular disease risk factors: The ARIC Study. *Neuroepidemiology*, 16, 149-62.

E. T. Liu

Conway, K., Edmiston, S. N., Hulka, B. S., Garrett, P. A., & Liu, E. T. (1996). Internal sequence variations in the Ha-ras variable number tandem repeat rare and common alleles identified by mini-satellite variant repeat polymerase chain reaction. *Cancer Research*, 56(20), 4773-7.

Dana P. Loomis

Loomis, D. P., Borja-Aburto, V. H., Bangdiwala, S. I., & Shy, C. M. (1996). Ozone exposure and daily mortality in Mexico City: A time-series analysis. *Res Rep Health Effects Institute* (75), 1-37.

Loomis, D. P., & Wolf, S. H. (1996). Mortality of workers at a nuclear materials production plant at Oak Ridge, Tennessee, 1947-1990. *American Journal of Industrial Medicine*, 29(2), 131-41.

Steenland, K., Loomis, D., Shy, C., & Simonsen, N. (1996). Review of occupational lung carcinogens. *American Journal of Industrial Medicine*, 29, 474-90.

L. A. Nylander-French

Surakka J., Fishcer, T., Rosen, G., & Nylander-French, L. A. (1997). Assessment of ultraviolet radiation exposure in the wood surface coating industry. *Applied Occupational and Environmental Hygiene*, 12(4), 261-70.

Tice, R. R., Nylander-French, L. A., & French, J. E. (1997). Absence of systemic in vivo genotoxicity after dermal exposure to ethyl acrylate and tripropylene glycol diacrylate in Tg.AC (v-Ha-ras) mice. *Environ Mol Mutagen*, 29, 240-9.

Andrew F. Olshan

McMahon, M. J., Luther, E. R., Bowes, W. A., Jr, & Olshan, A. F. (1996). Comparison of a trial of labor with an elective second cesarean section. *N Engl J Med*, 335(10), 689-95.

Olshan, A. F., Weissler, M. C., Pei, H., Conway, K., & Anderson, S. (1997). Alterations of the p16 gene in head and neck cancer: Frequency and association with p53, PRAD-1 and HPV. *Oncogene*, *14*, 811-8.

Savitz, D. A., Olshan, A. F., & Gallagher, K. (1996). Maternal occupation and pregnancy outcome. *Epidemiology*, *7*, 269-74.

Yarbrough, W. G., Aprelikova, O., Pei, H., Olshan, A. F., & Liu, E. T. (1996). Familial tumor syndrome associated with a germline nonfunctional p16INK4a allele. *Journal of National Cancer Institute*, *88*(20), 1489-91.

James S. Pankow

McGovern, P. G., Pankow, J. S., Shahar, E., Doliszny, K. M., Folsomo, A. R., Blackburn, H., & Luepker, R. V. (1996). Recent trends in acute coronary heart disease--mortality, morbidity, medical care, and risk factors. The Minnesota Heart Survey Investigators. *New England Journal of Medicine*, *334*(14), 884-90.

Pankow, J. S., Folsom, A. R., Province, M. A., Rao, D. C., Eckfeldt, J., Heiss, G., Shahar, E., & Wu, K. K. (1997). Family history of coronary heart disease and hemostatic variables in middle-aged adults. Atherosclerosis Risk in Communities Investigators and Family Heart Study Research Group. *Thrombosis & Haemostatis*, *77*(1), 87-93.

Pankow, J. S., Vachon, C. M., Kuni, C. C., King, R. A., Arnett, D. K., Grabrick, D. M., Rich S. S., Anderson, V. E., & Sellers, T. A. (1997). Genetic analysis of mammographic breast density in adult women: Evidence of a gene effect. *Journal of National Cancer Institute*, *89*(8), 549-56.

Shahar, E., McGovern, P. G., Pankow, J. S., Doliszny, K. M., Smith, M. A., Blackburn, H., & Luepker, R. V. (1997). Stroke rates during the 1980s. The Minnesota Stroke Survey. *Stroke*, *28*(2), 275-9.

Wendie A. Robbins

Robbins, W. A. (1996). Cytogenetic damage measured in human sperm following cancer chemotherapy. *Mutation Research*, *355*, 235-52.

Wayne Rosamond

Liao, D., Cai, J., Rosamond, W., Barnes, R., Hutchinson, R., Whitsel, E., Rautaharju, P., & Heiss, G. (1997). Cardiac autonomic function and incident coronary heart disease. *American Journal of Epidemiology*, *145*, 696-706.

McGovern, P., Folsom, A., Shahar, E., & Rosamond, W. (1996). No relation between excess fatigue and asymptomatic carotid atherosclerosis. *Epidemiology*, *7*, 638-40.

Rosamond, W. D., Shahar, E., & Luepker, R. V. (1996). Assessing medical history in coronary heart disease surveillance: Agreement between contemporaneous and retrospective methods. *Epidemiology*, *7*(4), 447-9.

Rosamond, W. D., Shahar, E., McGovern, P. G., Sides, T. L., & Luepker, R. V. (1996). Trends in coronary thrombolytic therapy for acute myocardial infarction (the Minnesota Heart Survey Registry, 1990 to 1993). *American Journal of Cardiology*, 78(3), 271-7.

Rosamond, W., Tyroler, H., Chambless, L., Folsom, A., Cooper, L., & Conwill, D. (1997). Educational achievement recorded on certificates of death compared with self-report in the Atherosclerosis Risk in Communities Study. *Epidemiology*, 8, 202-4.

Sorlie, P. D., Cooper, L., Schreiner, P. J., Rosamond, W., & Szklo, M. (1996). Repeatability and validity of the Rose questionnaire for angina pectoris in the Atherosclerosis Risk in Communities Study. *Journal of Clinical Epidemiology*, 49(7), 719-25.

Weitzman, S., Cooper, L., Chambless, L., Rosamond, W., Marcucci, G., Romm, F., & White A. (1997). Gender, racial and geographic differences in the performance of cardiac diagnostic and therapeutic procedures for hospitalized myocardial infarctions in the ARIC communities. *American Journal of Cardiology*, 79, 722-6.

Rachel Royce

Martinson, F. E., Weigle, K. A., Mushahwar, I. K., Weber, D. J., Royce, R., & Lemon, S. M. (1996). Seroepidemiological survey of hepatitis B and C virus infections in Ghanaian children. *Journal of Med Virology*, 48(3), 278-83.

Royce, R. A. (1996). HIV-related morbidity and mortality in injection drug users: Should the AIDS definition be changed yet again? *Epidemiology*, 7, 563-5.

Royce, R. A., Sena, A., Cates, W., Jr., & Cohen, M. S. (1997). Sexual transmission of HIV. *New England Journal of Medicine*, 336(15), 1072-8.

David A. Savitz

Ananth, C. V., Savitz, D. A., & Williams, M. A. (1996). Placental abruption and its association with hypertension and prolonged rupture of the membranes: A methodological review and meta-analysis. *Obstetrics and Gynecology*, 88, 309-18.

Ananth, C. V., Wilcox, A. J., Savitz, D. A., Bowes, W. A., Jr., & Luther, E. R. (1996). Effect of maternal age and parity on the risk of uteroplacental bleeding disorders in pregnancy. *Obstetrics and Gynecology*, 88 (4 Pt 1), 511-6.

Ananth, C. V., Wilcox, A. J., Savitz, D. A., Bowes, W. A., & Luther, E. R. (1996). Influence of maternal age and parity on the risk of placental abruption, placenta previa, and uterine bleeding of unknown etiology. *Obstetrics and Gynecology*, 84, 511-16.

Feychting, M., Kaune, W. T., Savitz, D. A., & Ahlbom, A. (1996). Estimating exposure in studies of residential magnetic fields and cancer -- importance of short-term variability, time interval between diagnosis and measurement, and distance to power lines. *Epidemiology*, 7, 220-24.

Irwin, D. E., Savitz, D. A., Bowes, W. A., Jr., & St. Andre, K. A. (1996). Race, age and cesarean delivery in a military population. *Obstetrics and Gynecology*, 88, 530-3.

- Passaro, K. T., Little, R. E., Savitz, D. A., & Noss, J. (1996). The effect of maternal drinking before conception and in early pregnancy on infant birth weight. *Epidemiology* 7, 377-83.
- Savitz, D. A., & Andrews, K. W. (1996). Risk of myelogenous leukaemia and multiple myeloma in workers exposed to benzene. *Occupational & Environmental Medicine*, 53(5), 357-8.
- Savitz, D. A., Brett, K. M., Baird, N., & Tse C-K. (1996). Male and female employment in the textile industry in relation to miscarriage and preterm delivery. *American Journal of Industrial Medicine*, 30, 307-16.
- Savitz, D. A., Olshan, A. F., & Gallagher, K. (1996). Maternal occupation and pregnancy outcome. *Epidemiology*, 7, 269-74.
- Zhang, J., & Savitz, D. A. (1996). Exercise during pregnancy among US women. *Ann Epidemiology*, 6(1), 53-9.

Victor J. Schoenbach

- Fiscus, S. A., Adimora, A. A., Schoenbach, V. J., Lim, W., McKinney, R., Rugar, D., Kenny J., Woods, C., & Wilfert, C. (1996). Perinatal HIV infection and the effect of zidovudine therapy on transmission in rural and urban counties. *Journal of American Medical Association*, 275 (19), 1483-8.
- Gioeli, D., Conway, K., & Weissman, B. E. (1997). Localization and characterization of a chromosome 11 tumor suppressor gene using organotypic raft cultures. *Cancer Research*, 57, 1157-65.
- Morssink, C. B., Kumanyika, S., Tell, G. S., & Schoenbach, V. J. (1996). Recruiting minorities into the profession of epidemiology. Surveying the applicants' mail. American College of Epidemiology Committee on Minority Affairs. *Annals of Epidemiology*, 6, 4-11.
- Thomas, J. C., Schoenbach, V. J., Weiner, D. H., Parker, E. A., & Earp, J. A. (1996). Rural gonorrhoea in the southeastern United States: a neglected epidemic? *American Journal of Epidemiology*, 143(3), 269-77.

J. Richard Seed

- Kightlinger, L. K., Seed, J. R., & Kightlinger, M. B. (1996). *Ascaris lumbricoides* aggregation in relation to child growth status, delayed cutaneous hypersensitivity, and plant anthelmintic use in Madagascar. *Journal of Parasitology*, 82(1), 25-33.
- Seed, J. R., & Sechelski J. B. (1996). The individual host, a unique evolutionary island for rapidly dividing parasites: A theoretical approach. *Journal of Parasitology*, 82(2), 263-7.

Carl M. Shy

- Loomis, D. P., Borja-Aburto, V. H., Bangdiwala, S. I., & Shy, C. M. (1996). Ozone exposure and daily mortality in Mexico City: A time-series analysis. *Res Rep Health Effects Institute* (75), 1-37.

Shy, C. M. (1997). The failure of academic epidemiology: Witness for the prosecution. *American Journal of Epidemiology*, 145, 479-84.

Steenland, K., Loomis, D., Shy, C., & Simonsen, N. (1996). Review of occupational lung carcinogens. *American Journal of Industrial Medicine*, 29, 474-90.

Lola V. Stamm

Hardham, J. M., Frye, J. G., Young, N. R., & Stamm, L. V. (1997). Identification and sequences of the *flhA*, *flhF*, and *orf304* genes of *Treponema pallidum*. *DNA Seq*, 7, 107-16.

Stamm, L. V., Hardham, J. M., & Frye, J. G. (1996). Expression and sequence analysis of a *Treponema pallidum* gene, *tpn38(b)*, encoding an exported protein with homology to *T. pallidum* and *Borrelia burgdorferi* proteins. *FEMS Microbiology Letters*, 135(1), 57-63.

Stamm, L. V., Young, N. R., & Frye, J. G. (1996). Sequences of the *Salmonella typhimurium* *mglA* and *mglC* genes. *Gene*, 171(1), 131-2.

Stamm, L. V., Young, N. R., Frye, J. G., & Hardham, J. M. (1996). Identification and sequences of the *Treponema pallidum mglA* and *mglC* genes. *DNA Sequence*, 6, 293-8.

June Stevens

Stevens, J., Metcalf, P. A., Dennis, B. H., Tell, G. S., Shimakaw, T., & Folsom, A. R. (1996). Reliability of a food frequency questionnaire by race, gender, age and education. *Nutrition Research*, 16, 735-46.

Vitelli, L. L., Folsom, A. R., Shahar, E., Winkhart, S. P., Shimakawa, T., Stevens, J., Duncan, B. B., & Chambless, L. E. (1996). Association of dietary composition with fasting serum insulin level: The ARIC study. *Nutrition, Metabolism and Cardiovascular Disease*, 6, 194-202.

James C. Thomas

Thomas, J. C., Schoenbach, V. J., Weiner, D. H., Parker, E. A., & Earp, J. A. (1996). Rural gonorrhea in the Southeastern United States: a neglected epidemic? *American Journal of Epidemiology*, 143(3), 269-77.

Thomas, J. C., & Tucker, M. J. (1996). The development and use of the concept of a sexually transmitted disease core. *Journal of Infectious Disease*, 174(Suppl 2), S134-43.

Herman A. Tyroler

Armstrong, D., Wing, S., & Tyroler, H. A. (1996). Race differences in estimates of sudden coronary heart disease mortality, 1980-1988: The impact of ill-defined death. *Journal of Clinical Epidemiology*, 49(11), 1247-51.

Arnett, D. K., Tyroler, H. A., Burke, G., Hutchinson, R., Howard, G., & Heiss G. (1996). Hypertension and subclinical carotid artery atherosclerosis in blacks and whites: The Atherosclerosis Risk in Communities Study. ARIC Investigators. *Archives of Internal Medicine*, 156(17), 1983-9.

- Duncan, B. B., Metcalf, P., Crouse, J. R., III, Li, R., Sharrett, A. R., Tegele, C., Tyroler, H. A., & Heiss G. (1997). Risk factors differ for carotid artery plaque with and without acoustic shadowing. Atherosclerosis Risk in Communities Study Investigators. *Journal of Neuroimaging*, 7(1), 28-34.
- Liao, D., Cai, J., Barnes, R. W., Tyroler, H. A., Rautaharju, P., Holme, I., & Heiss, G. (1996). Cardiac autonomic function and the development of hypertension - The ARIC Study. *Am J Hypertension*, 9, 1147-56.
- Liao, D., Cooper, L., Cai, J., Toole, J. F., Bryan, N. R., Hutchinson, R. G., & Tyroler, H. A. (1996). Presence and severity of cerebral white matter lesions and hypertension, its treatment, and its control. The ARIC Study. Atherosclerosis Risk in Communities Study. *Stroke*, 27(12), 2262-70.
- Rosamond, W., Tyroler, H., Chambless, L., Folsom, A., Cooper, L., & Conwill, D. (1997). Educational achievement recorded on certificates of death compared with self-report in the Atherosclerosis Risk in Communities Study. *Epidemiology*, 8, 202-4.
- Schreiner, P. J., Heiss, G., Tyroler, H. A., Morrisett, J. D., Davis, C. E., & Smith, R. (1996). Race and gender differences in the association of Lp(a) with carotid artery wall thickness. The Atherosclerosis Risk in Communities (ARIC) Study. *Arteriosclerosis, Thrombosis & Vascular Biology*, 16(3), 471-8.
- Svetkey, L. P., George, L. K., Tyroler, H. A., Timmons, P. Z., Burchett, B. M., & Blazer, D. G. (1996). Effects of gender and ethnic group on blood pressure control in the elderly. *American Journal of Hypertension*, 9(6), 529-35.
- White, A. D., Folsom, A. R., Chambless, L. E., Sharret, A. R., Yang, K., Conwill, D., Higgins, M., Williams, O. D., & Tyroler, H. A. (1996). Community surveillance of coronary heart disease in the Atherosclerosis Risk in Communities (ARIC) Study: methods and initial two years' experience. *Journal of Clinical Epidemiology*, 49(2), 223-33.

Marilyn F. Vine

- Suris-Swartz, P. J., Schildkraut, J. M., Vine, M. F., & Hertz-Picciotto, I. (1996). Age at diagnosis and multiple primary cancers of the breast and ovary. *Breast Cancer Research and Treatment*, 41(1), 21-9.
- Vine, M. F. (1996). Biologic markers of exposure: current status and future research needs. *Toxicology & Industrial Health*, 12(2), 189-200.
- Vine, M. F. (1996). Smoking and male reproduction - a review. *International Journal of Androl*, 19, 323-37.
- Vine, M. F. (1996). Worldwide decline in semen quality might be due to smoking. *BMJ*, 312(7029), 506.
- Vine, M. F. (1997). Degnan D, Hanchette C. Geographic information systems - their use in environmental epidemiologic research. *Environmental Health Perspectives*, 105(6), 2-10.

Vine, M. F., Setzer, W., & Everson, R. B., Wyrobek A. J. (1997). Human sperm morphometry and smoking, caffeine and alcohol consumption. *Reproductive Toxicology*, 11(2/3), 179-84.

Vine, M. F., Tse, C. K., Hu, P., & Truong, K. Y. (1996). Cigarette smoking and semen quality. *Fertility & Sterility*, 65(4), 835-42.

David J. Weber

Martinson, F. E., Weigle, K. A., Mushahwar, I. K., Weber, D. J., Royce, R., & Lemon, S. M. (1996). Seroepidemiological survey of hepatitis B and C virus infections in Ghanaian children. *Journal of Med Virology*, 48(3), 278-83.

Millard, P. S., Wilcosky, T. C., Reade-Christopher, S. J., & Weber, D. J. (1996). Isoniazid-related fatal hepatitis. *West Journal of Medicine*, 164(6), 486-91.

Kristen A. Weigle

Escobar, M. A., Saravia, N. G., & Weigle, K. A. (1996). Concurrent mucosal leishmaniasis and pulmonary tuberculosis. *Clinical Infectious Disease*, 23, 836-7.

Martinson, F. E., Weigle, K. A., Mushahwar, I. K., Weber, D. J., Royce, R., & Lemon, S. M. (1996). Seroepidemiological survey of hepatitis B and C virus infections in Ghanaian children. *Journal of Med Virology*, 48(3), 278-83.

Weigle, K. A., & Saravia, N.G. (1996). Natural history, clinical evolution and the host-parasite interaction in new world cutaneous Leishmaniasis. *Clinical Dermatology*, 14, 433-50.

Steven B. Wing

Armstrong, D., Wing, S., & Tyroler, H. A. (1996). Race differences in estimates of sudden coronary heart disease mortality, 1980-1988: The impact of ill-defined death. *Journal of Clinical Epidemiology*, 49(11), 1247-51.

Department of Epidemiology 1996-1997 Staff Organizational Chart



