

Annual Report  
July 1, 1988 - June 30, 1989  
Department of Epidemiology

I. DEPARTMENT ORGANIZATION AND ADMINISTRATION.

Support Staff  
(as of June 30, 1989)

Administrative Staff

Gail King	Administrative Manager
Joyce Allen	Registrar
Nancy Colvin	Assistant Registrar
Jinny Reid	Secretary to the Chair
Carolyn Cooke	Accounting Office Manager
Sherry Bradshaw	Accounting Technician
Phyllis Johnson	Administrative Assistant

Secretarial Staff

Lesa McPherson	Administrative Secretary V
Edna Lennon	Secretary IV
Betsy Seagroves	Secretary IV
Mimi Haebig	Secretary IV
Carmen Woody	Secretary IV
Jane Foust	Secretary IV
Carol Morton	Secretary IV
Rebecca Thompson	Secretary IV
Phyllis Daniels	Secretary IV

Research Staff

Jo Heiss	Research Associate
Marilyn Knowles*	Social Research Assistant
Manjoo Mittal	Social Research Associate
Baldev Krishen	Social Research Assistant
Susanne Wolf	Research Associate

Data Processing Staff

Terry Hudgins	Applications Analyst Programmer
Robert Kleckner	Applications Programmer
Veda Manley	Data Processing Coordinator
Vic Rhodes	Applications Analyst Programmer
Joy Wood	Applications Analyst Programmer

\*on leave 1988-1989

Employee Terminations

Linda Crosson	Accounting Technician
Ed Hunt	Social Research Assistant
Shirley Simmons	Secretary IV
Molly Sanford	Social Research Assistant
Monique Stephens	Secretary IV

II. INSTRUCTIONAL PROGRAMS

1. Major changes during the year.

NONE

2. New programs or deletions.

NONE

3. Honors or special courses.

NONE

III. RESEARCH PROGRAMS

A. Major research and training funds received during the year.

Heiss, Gerardo, "Atherosclerosis Risk in Communities", 9/01/85 - 8/31/93, \$2,744,288. Heart, Lung and Blood Institute.

Hulka, Barbara S., "Biochemical Epidemiology", 10/01/86 - 12/31/91, \$270,895. Environmental Protection Agency.

Hulka, Barbara S., "Role of Human Papillomavirus in Cervical Neoplasia", 7/01/88 - 6/30/89, \$10,433. National Cancer Institute.

Hulka, Barbara S., "Training Grant In Cancer Epidemiology", 9/01/80 - 8/31/90, \$161,183. National Cancer Institute.

James, Sherman A., "SES, John Henryism and Hypertension Risk in Blacks", 12/01/84 - 6/30/90, \$259,961. Heart, Lung and Blood Institute.

Lemon, Stanley M., "UNC AIDS Clinical Study Group", 9/30/87 - 8/31/92, \$274,240. National Institute of Allergy and Infectious Diseases.

Savitz, David A., "Adverse Pregnancy Outcomes Among Cosmetologists", 1/01/86 - 12/31/89, \$29,000. March of Dimes.

Savitz, David A., "Adverse Pregnancy Outcomes Among Cosmetologists", 9/29/87 - 3/31/90, \$21,675. Centers for Disease Control.

Savitz, David A., "Effect of Exposure to Mercury Vapor/Nitrous Oxide on Risk of Spontaneous Abortion", 1/01/89 - 12/31/90, \$25,000. March of Dimes.

Savitz, David A., "Epidemiologic Study of Utility Workers Exposed to Electric and Magnetic Fields", 7/1/87 - 12/31/89, \$2,564,004. Electric Power Research Institute.

Savitz, David A., "Epidemiology of Pregnancy Outcome on a Textile Community", 3/01/88 - 2/28/90, \$157,697. National Institute of Child Health and Human Development.

Savitz, David A., "Menstrual Cycle Patterns and Risk of Breast Cancer", 8/01/88 - 12/31/89, \$35,355. National Cancer Institute.

Shy, Carl M., "Comprehensive Epidemiology of DOE Workers", 10/01/88 - 9/30/89, \$259,999. Oak Ridge Associated Universities.

Shy, Carl M., "Immuno-Epidemiology of Crab-Induced Occupational Asthma", 4/01/89 - 3/31/90, \$21,675. Centers for Disease Control.

Shy, Carl M., "Micronuclei In Bronchial Cells of Uranium Miners", 3/01/88 - 8/31/89, \$35,841. National Cancer Institute.

Shy, Carl M., "Occupational Cancer - Silica and Asbestos", 9/16/85 - 2/28/90, \$271,781. Centers for Disease Control.

Tyroler, H.A., "Cardiovascular Training Grant in Epidemiology", 7/01/75 - 5/31/91, \$74,473. Heart, Lung and Blood Institute.

Wing, Steven, "Community Structure and Cardiovascular Mortality Trends", 6/01/89 - 5/31/92, \$185,690. Heart, Lung and Blood Institute.

Post-Doctoral Fellowship in Pharmacoepidemiology, \$25,000 stipend to be awarded each year by Merck, Sharpe & Dohme Laboratories.

B. Notable publications of the faculty:

Harry A. Guess, MD, PhD

Shaw FE, Graham DJ, Guess HA, et al. Postmarketing Surveillance for Neurologic Adverse Events Reported After Hepatitis-B Vaccination - Experience of the First Three Years. American Journal of Epidemiology. 127:337-352, 1988.

Guess, HA, et al. Fatal Upper Gastrointestinal Hemorrhage or Perforation Among Users and Non-users of Nonsteroidal Anti-Inflammatory Drugs in Saskatchewan Canada 1983. Journal of Clinical Epidemiology. 41:35-45, 1988.

Sioban D. Harlow, PhD

Linnet MS, McLaughlin JK, Harlow SD, and Fraumeni JF. Family History of Autoimmune Disorders and Cancer in Multiple Myeloma. International Journal of Epidemiology. 17:512-513, 1988.

Goldberg EL, Comstock GW, and Harlow SD. Emotional Problems in Widowhood. Journal of Gerontology: Social Sciences. 43(6):5206-8, 1988.

Harlow SD and Linnet MS. Agreement Between Questionnaire Data and Medical Records: The Evidence for Accuracy of Recall. American Journal of Epidemiology. 129:233-248, 1989.

Gerardo Heiss, MD, MSc, PhD

Daniels SR, Heiss G, Davis CE, Hames CG, Tyroler HA. Race and Gender Differences in the Correlates of Blood Pressure Change. Hypertension. 11(3):249-55, 1988.

Sheps DS, Heiss G. Sudden death and Silent Myocardial Ischemia. American Heart Journal. 117(1):177-84, 1989.

Duncan BB, Schmidt MI, Ellis GJ, Davis CE, Heiss G. Frequency of Early-Morning Rise in Blood Glucose in Children with Diabetes at Camp. Diabetes Care. 11(7):574-78, 1988.

Barbara Sorenson Hulka, MD, MPH

Brown JT, Hulka BS. Screening Mammography in the Elderly: A Case-Control Study. Journal of General Internal Medicine. 3:126-131, 1988.

Hulka BS. Does Progestin Protect Against Breast Cancer? Primary Care and Cancer. 8:11, 1988.

Hulka BS. The Health Consequences of Environmental Tobacco Smoke. Environmental Technology Letters. 9:531-538, 1988.

Ernster VL, Bush TL, Huggins GR, Hulka BS, et al. Clinical Perspectives: Benefits and Risks of Menopausal Estrogen and/or Progestin Hormone Use. Preventive Medicine. 17:201-223, 1988.

Hulka BS, Wilcosky T. Biological Markers in Epidemiologic Research. Archives of Environmental Health. 43(2):83-89, 1988.

Hulka BS. Cancer Screening: Degrees of Proof and Practical Application. Cancer (Supplement). 62(8):1776-1780, 1988.

Chorba TL, Reinfurt D, Hulka BS. Efficacy of Mandatory Seat-Belt Use Legislation. Journal of the American Medical Association. 260:3593-3597, 1988.

Hulka BS. "Breast Cancer and Exogenous Estrogen." In Epidemiology and Health Risk Assessment (Leon Gordis, Ed.), Oxford University Press, New York, Oxford, 1988.

Hulka BS. Dietary Fat and Breast Cancer: Case Control and Cohort Studies. Preventive Medicine. 18:180-193, 1989.

Michel A. Ibrahim, MPH, PhD

Ibrahim MA and Yankauer A. The Promotion of Exercise. Editorial, American Journal of Public Health. 78(11):1413-1414, 1988.

Siscovick DS, Strogatz DS, Wagner EH, Ballard DJ, James SA, Beresford S, Kleinbaum DG, Cutchin LM, Ibrahim MA. Provider-Oriented Interventions and Management of Hypertension. Medical Care. 25:254-258, 1987.

Sherman A. James, PhD

Ballard DJ, Strogatz DS, Wagner EH, Siscovick DS, James SA, et al. Hypertension Control in a Rural Southern Community: Medical Care Process and Dropping Out. American Journal of Preventive Medicine. 4:133-139, 1988.

Duijkers TJ, Drijver M, Kromhout D, James SA. "John Henryism" and Blood Pressure in a Dutch Population. Psychosomatic Medicine. 50:353-359, 1988.

Berton H. Kaplan, PhD

Broadhead WE, Gehlbach SH, DeGruy FV, Kaplan BH. Functional vs. Structural Social Support and Health Care Utilization in a Family Medicine Outpatient Practice. Medical Care. 27(3):221-233, 1989.

Broadhead WE, Gehlbach SH, De Gruy FV, Kaplan BH. The Duke-UNC Functional Social Support Questionnaire: Measurement of Social Support in Family Medicine Patients. Medical Care. 26(7):709-723.

Suzanne E. Landis, MD, MPH

Landis SE, Earp JA. Day Care Center Illness: Policy and Practice in North Carolina. American Journal of Public Health. 78:311-313, 1988.

Landis SE, Earp JA, Sharp MD. Day Care Center Exclusion of Sick Children: A Comparison of a Day Care Staff's, Working Mothers' and Pediatricians' Opinions. Pediatrics. 81:662-667, 1988.

Victor J. Schoenbach, PhD

Fredman L, Schoenbach VJ, Kaplan BH, Blazer DG, James SA, Kleinbaum DG, Yankaskas B. The Association between Depressive Symptoms and Mortality among Older Participants in the Epidemiologic Catchment Area-Piedmont Health Survey. Journal of Gerontology. 44:S149-S156, 1989.

Garrison CZ, Schoenbach VJ, Kaplan BH. Symptom Prevalence of Depression in Adolescents. In: Arlene R. Stiffman and Ronald A. Feldman (eds): Advances in Adolescent Mental Health Vol 3: Depression and Suicide. Greenwich, Connecticut, JAI, 1988, 13-28.

Garrison CZ, Schoenbach VJ, Schluchter MD, Kaplan BH. The Epidemiology of Depressive Symptoms in Young Adolescents. Journal of the American Academy of Child and Adolescent Psychiatry. 28:343-351, 1989.

Orlean CT, Schoenbach VJ, Salmon MA, Strecher VJ, Kalsbeek W, Quade D, Brooks EF, Konrad TR, Blackmon C, Watts CD. A Survey of Smoking and Quitting Patterns Among Black Americans. American Journal of Public Health. 79:176-181, 1989.

Orleans CT, Strecher VJ, Schoenbach VJ, Salmon MA, Blackmon C. Smoking Cessation Initiatives for Black Americans: Recommendations for Research and Intervention. Health Education Research. 4:13-25, 1989.

David A. Savitz, PhD

Savitz DA, Whelan EA, Kleckner RC. Effect of Parents' Occupational Exposures on Risk of Stillbirth, Preterm Delivery, and Small-for-gestational-age Infants. American Journal of Epidemiology. 129(6):1201-1218, 1989.

Savitz DA, Baron AE. Estimating and Correcting for Confounder Misclassification. American Journal of Epidemiology. 126(5):1062-1071, 1989.

Barnes F, Wachtel H, Savitz D, Fuller J. The Use of Wiring Configuration and Wire Codes for Estimating Externally-generated Electric and Magnetic Fields. Bioelectromagnetics. 10:13-21, 1989.

Mayer EJ, Hamman RF, Gay EC, Lezotte DC, Savitz DA, Klingensmith GJ. Reduced Risk of Insulin Dependent Diabetes Mellitus among Breast-fed Children. The Colorado IDDM Registry. Diabetes. 37:1625-1632, 1988.

Savitz DA. Human Studies of Human Health Hazards - Comparison of Epidemiology and Toxicology. Statistical Science. 3:306-313, 1988.

Carl M. Shy, MD, MPH, DrPH

Goldsmith DF and Shy CM. Respiratory Health Effects from Occupational Exposure to Wood Dusts. Scandinavian Journal of Work and Environmental Health. 14:1-15, 1988.

Shy CM. Review, Discussion, and Summary of Epidemiological Studies. Environmental Health Perspectives. 79:187-190, 1989.

Heineman EF, Shy CM and Checkoway H. Injuries on the Fireground: Risk Factors for Traumatic Injuries Among Professional Fire Fighters. American Journal of Industrial Medicine. 15:267-282, 1989.

David S. Strogatz, PhD

Strogatz DS, Siscovick DS, Weiss NS, Rennert G. Wife's Level of Education and Husband's Risk of Primary Cardiac Arrest. American Journal of Public Health. 78:1491-1493, 1988.

Herman A. Tyroler, MD

Tyroler AH, Levy RI, Thorn MD, Davis CE, Deev AD, Shestov DB. High density lipoprotein cholesterol and coronary heart disease mortality: experience of white men aged 40 to 59 years in the US Lipid Research Clinics mortality follow-up study. Atherosclerosis Reviews. Vol.17, Robert I. Levy et al (eds.), Raven Press, New York, 277-286, 1988.

David Jay Weber, MD, MPH

Weber DJ, Rutala WA, Parham C. Impact and Costs of Varicella Control in a University Hospital. American Journal of Public Health. 78:19-23, 1988.

Weber DJ, Saviteer SM, Rutala WA, Thomann CA. In vitro susceptibility of Bacillus species to 23 antimicrobials. Antimicrob Agents & Chemotherapy. 32:642-645, 1988.

Rutala WA, Weber DJ, Thomann CA, John JF, Saviteer SM, Sarubbi FA. An outbreak of Pseudomonas cepacia bacteremia associated with a contaminated intra-aortic balloon pump. Journal of Thoracic & Cardiovascular Surgery. 96:157-61, 1988.

Weber DJ, Rutala WA. Topics in Clinical Microbiology - Bacillus species. Infect. Control. 9:368-73, 1988.

Steven B. Wing, MA, PhD

Wing S, Casper M, Riggan W, Hayes C and Tyroler HA. Socio Environmental Characteristics Associated with the Onset of Decline of Ischemic Heart Disease Mortality in the United States. American Journal of Public Health. 78:925-26, 1988.

Wing S. Social Inequalities in the Decline of Coronary Mortality (editorial). American Journal of Public Health. 78:1415-6, 1988.

Wing S, Casper M, David WB, Pellom A, Riggan W and Tyroler HA. Stroke Mortality Maps: United States Whites Aged 35-74, 1962-1982. Stroke. 19:150-13, 1988.



## V. FACULTY

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

## 1. Full-Time Faculty

Caroline Becker, Associate Professor  
 Gerardo Heiss, Professor  
 Barbara S. Hulka, \*Kenan Professor & Chair, Epidemiology  
     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  
 Sherman A. James, \*Professor, Epidemiology  
     Clinical Professor, Psychology.  
 Berton H. Kaplan, Professor  
 David G. Kleinbaum, Professor of Biostatistics  
 Suzanne Landis, \*Research Assistant Professor  
     Clinical Assistant Professor, Medicine  
 Dexter L. Morris, Assistant Professor  
 David A. Savitz, Associate Professor  
 Victor J. Schoenbach, Associate Professor  
 Cecil G. Sheps (Emeritus), Professor, Epidemiology  
     \*Professor, Social and Administrative Medicine  
 Carl M. Shy, \*Professor, Epidemiology  
     Professor, Environmental Sciences and Engineering  
     Clinical Professor, Family Medicine  
 David S. Strogatz, Research Assistant Professor  
 Herman A. Tyroler, Alumni Distinguished Professor  
 David Weber, \*Assistant Professor, Medicine  
     Assistant Professor, Epidemiology  
 Kristen Weigle, Assistant Professor  
 Timothy C. Wilcosky, Research Assistant Professor  
 Steven B. Wing, Research Assistant Professor

## 2. Part-Time Faculty

Gory (Bud) J. Love, Research Associate Professor  
 Margaret F. McCann, Research Assistant Professor

## 3. Visiting Faculty

Thomas Cole, Visiting Instructor

4. Adjunct and Fixed-Term Joint Appointments

Naomar Almeida-Filho, Adjunct Associate Professor  
Dragana Andjelkovich, Adjunct Associate Professor  
Donna Baird, Adjunct Assistant Professor  
Dan German Blazer, Adjunct Professor  
Brian A. Boehlecke, Clinical Associate Professor  
W. Eugene Broadhead, Adjunct Assistant Professor  
James Trig Brown, Adjunct Assistant Professor  
Gwen Collman, Adjunct Assistant Professor  
Joan Comoni-Huntley, Adjunct Professor  
John R. Crouse, Adjunct Associate Professor  
Lawrence M. Cutchin, Clinical Professor, Epidemiology  
Clin. Professor, Medicine and Family Medicine  
\*Adjunct Prof., Social and Administrative Medicine  
Gordon H. DeFriese, Clinical Professor, Epidemiology  
\*Professor, Social and Administrative Medicine  
Richard B. Everson, Adjunct Professor  
Robert H. Fletcher, Clinical Professor, Epidemiology  
\*Professor, Medicine  
Suzanne W. Fletcher, Clinical Professor, Epidemiology  
\*Professor, Medicine  
Judith A. Fortney, Adjunct Associate Professor  
Richard C. Graves, Research Associate Professor  
Raymond S. Greenberg, Adjunct Associate Professor  
Jack Griffith, Adjunct Professor  
Harry A. Guess, Adjunct Associate Professor  
Kathryn Magruder-Habib, Adjunct Assistant Professor  
Curtis G. Hames, Clinical Professor  
Carl G. Hayes, Adjunct Professor  
Donald Hayes, Adjunct Professor  
Suzanne G. Haynes, Adjunct Associate Professor  
Siegfried H. Heyden, Adjunct Professor  
James E. Higgins, Adjunct Assistant Professor  
Michael Hogan, Adjunct Associate Professor  
Eric S. Johnson, Adjunct Assistant Professor  
Richard J. Levine, Adjunct Associate Professor  
J. Newton MacCormack, Adjunct Associate Professor  
Melinda S. Meade, Adjunct Associate Professor, Epidemiology  
\*Professor, Geography  
George R. Parkerson, Adjunct Associate Professor  
Miquel Porta, Adjunct Assistant Professor  
Walter J. Rogan, Adjunct Associate Professor  
Michael Rosenberg, Adjunct Associate Professor

Desmond K. Runyan, Clinical Assistant Professor  
Dale Sandler, Adjunct Assistant Professor  
Robert S. Sandler, Clinical Associate Professor Epidemiology  
\*Associate Professor, Medicine  
C. Gregory Smith, Adjunct Assistant Professor  
John Stamm, Adjunct Professor  
Michael R. Swift, Clinical Professor, Epidemiology  
\*Professor, Medicine  
Hugh H. Tilson, Adjunct Professor  
James F. Toole, Adjunct Professor  
Edward H. Wagner, Clinical Professor  
Allen J. Wilcox, Adjunct Professor  
Mark E. Williams, \*Associate Professor, Medicine  
Clinical Associate Professor, Epidemiology  
Bonnie C. Yankaskas, Adjunct Assistant Professor, Epidemiology  
\*Research Assistant Professor, Radiology

B. Changes During the Year.

1. Additions, effective 1988-1989

Timothy Aldrich, Adjunct Assistant Professor  
effective 07/01/88  
Douglas S. Campbell, Adjunct Assistant Professor  
effective 01/01/89  
Sioban Harlow, Research Assistant Professor  
effective 07/01/88  
Russell Harris, Adjunct Assistant Professor  
effective 07/01/88  
Marilyn Vine, Research Assistant Professor  
effective 07/01/88  
Alice White, Research Assistant Professor  
effective 07/01/88

2. Promotions, effective 1986-1987.

Michael Hogan, Adjunct Associate Professor  
effective 01/01/89  
Walter J. Rogan, Adjunct Associate Professor  
effective 01/01/89  
Robert S. Sandler, Clinical Associate Professor  
effective 07/01/88  
David A. Savitz, Associate Professor  
effective 01/15/89  
Mark E. Williams, Clinical Associate Professor  
effective 07/01/88

3. Changes in Rank: None

4. Leaves: None

5. Losses: Resignations

Seymour Grufferman, Adjunct Associate Professor  
effective 06/30/89

H. Hugh Fudenberg, Adjunct Professor  
effective 06/30/89

Frank John Hielema, Adjunct Instructor  
effective 10/31/88

Clarence Lushbaugh, Adjunct Professor  
effective 06/30/89

Eugene S. Mayer, Adjunct Associate Professor  
effective 06/30/89