Annual Report July 1, 1991 - June 30, 1992 Department of Epidemiology

I. DEPARTMENT ORGANIZATION AND ADMINISTRATION.

Support Staff

(as of June 30, 1992)

Administrative Staff

Gail King	Administrative Manager
Joyce Allen	Registrar
Nancy Colvin	Assistant Registrar
Carolyn Cooke	Fiscal Manager
Stephanie Miller	Accounting Technician
Phyllis Johnson	Administrative Assistant
Lesa McPherson	Administrative Secretary V

Secretarial Staff

Virginia Reid	Secretary IV	7
Edna Lennon	Secretary IV	r
Betsy Seagroves	Secretary IV	7
Mimi Haebig	Secretary IV	7
Carmen Woody	Secretary IV	7
Jane Foust	Secretary IV	7
Carol Morton	Secretary IV	7
Anne Crumpler	Secretary IV	7
Kathy Sutton	Clerk/Typist	: IV
Susan Reel	Clerk III	

Research Staff

Marilyn Knowles	Social Research Assistant
Catherine Paton	Social Research Assistant
Susanne Wolf	Research Associate
Baldev Krishan	Social Research Assistant
Eloise Parrish	Research Technician
Darrah Degnan	Social Research Associate
Jadis Robinson	Social Research Assistant
Joan Shields	Research Technician

Data Processing Staff

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

Eileen Gregory Richard Howard

Applications Programmer

Applications Analyst Programmer

Larry De Matas

Applications Programmer

Carol Janney Statistician
Joanna Smith Applications

Applications Analyst Programmer

Stephanie Watkins Applications Programmer

Employee Terminations

Jo Heiss, Research Associate, retirement Lisa Wicker, Accounting Technician, resignation

II. Instructional Programs

No change from last year.

III. RESEARCH PROGRAMS

Beth Corder (Dr. Harry Guess)

Prediagnostic Serum Vitamin D and Prostate Cancer, National Cancer Institute, \$64,677

Dr. James E. Hall

Metabolism of the Anti-Pneumocystis Drug Pentamidine, American Foundation for AIDS Research, \$120,000

Dr. Gerardo Heiss

Family and Genetic Studies in Cardiovascular Disease, National Heart, Lung, and Blood Institute, \$2,308,504

Dr. Irva Hertz-Picciotto

Lead in Pregnancy, Hypertension and Neonatal Health, National Institutes of Health, \$855,694

The Healthy Worker Survivor Effect and Cancer Mortality, National Institutes of Health Small Grants Program, \$49,812

Dr. Barbara Hulka

Genetic Susceptibility and Dietary Factors in the Etiology of Ovarian Cancer, National Institute of Cancer Research, \$89,676

Dr. Andrew Olshan

A Case-Control Study of Risk Factors for Neuroblastoma, National Institutes of Health, \$1,493,217

Dr. Beth Newman

Molecular Epidemiology of Malignant Glioma, University of California at San Francisco, \$7,229

Dr. David Savitz

Genetic Susceptibility and Dietary Factors in Ovarian Cancer, March of Dimes, \$35,636

Mercury and Reproductive Health in Women Dentist, National Institute of Dental Research, \$49,484

Dr. James Thomas

North Carolina STD Cooperative Research Center: Project #6 The Epidemiology of STDs in Rural North Carolina, National Institutes of Health, \$1,112,610

Dr. Lola Stamm

North Carolina STD Cooperative Research Center: Project # 4 Molecular Studies of Treponema pallidum, National Institutes of Health, \$445,332

Dr. Carl Shy

Respiratory Effects of Waste Incinerators, Centers for Disease Control, \$1,945,891

Dr. Ralph Baric

Studies into the Mechanism of MHV Replication, National Institutes of Health, \$825,811

<u>Sue West</u> (Epidemiology Doctoral Student)

Assessing Recall Accuracy for Prescription Medications, National Institutes of Health, \$21,600

PUBLICATIONS

Ralph Baric

Shieh C, Baric RS, Sobsey M, et al.: Detection of hepatitis A virus and other enteroviruses in environmental samples using gene probe methods. <u>J Virological Methods</u> 31:119-136, 1991.

Edwards W, Small JD, Geratz D, et al.: A model for virus-induced myocarditis and congestive heart failure in rabbits. <u>J Infectious Diseases</u> 165:134-140, 1992.

J. Ed Hall

Berger BJ, Henry L, Hall JE, Tidwell RR: Problems and pitfalls in the assay of pentamidine: implications for clinical use. <u>Clin Pharmacokin</u> 22:163-168, 1992.

Leelayoova S, Marbury D, Rainey PM, MacKenzie NE, Hall JE: In vitro tryptophan catabolism by *Leishmania donovani donovani* promastigotes. <u>J Protozool</u> 39:290-296, 1992.

Tidwell RR, Jones SK, Dykstra CC, Gorton LL, Hall JE: Treatment of experimental *Pneumocystis carinii* pneumonia with 1,2-di (4-imidazolino-2-methoxyphenoxy) propane lactate. <u>J Protozool</u> 6:148S-150S, 1991.

Lindsay DS, Blagburn BL, Hall HE, Tidwell RR: Efficacy of analogs of pentamidine against *Toxoplasma gondii* in cell cultures. <u>Antimicrob Agents Chemother</u> 35:1914-1916, 1991.

Gerardo Heiss

Tell GS, Ryu JE, Thompson CJ, et al.: Comparison of hospital and neighborhood controls in a study of coronary artery disease. <u>J Clin Epidemiol</u> 44(10):1097-1104, 1991.

Riley WA, Barnes RW, Bond MG, et al.: High-resolution B-mode ultrasound reading methods in the Atherosclerosis Risk in Communities (ARIC) cohort. <u>J Neuroimag</u> 1:168-172, 1991.

Sorel JE, Heiss G, Tyroler HA, et al.: Black-white differences in blood pressure among participants in NHANES II: The contribution of blood lead. Epidemiology 2:348-352, 1991.

Folsom AR, Burke GL, Byers CL, et al.: Implications of obesity for cardiovascular disease in blacks: The CARDIA and ARIC studies. <u>Amer J Clin Nutrition</u> 53:1604S-11S, 1991.

Haertel U, Heiss, Filipiak B, Doering A: Cross-sectional and longitudinal associations between high density lipoprotein cholesterol and women's employment. <u>Amer J Epidemiol</u> 135(1):68-78, 1992.

Irva Hertz-Picciotto

Hertz-Picciotto I: Public not responsible for sharing "life experiences" (letter). Epidemiology Monitor 13:4, 1992.

Hertz-Picciotto I, Swan S, Neutra RA: Reporting bias and mode of interview in a study of adverse pregnancy outcomes and water consumption. <u>Epidemiology</u> 3:104-112, 1992.

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Neutra RR, Swan SH, Hertz-Picciotto I, et al.: Potential sources of bias and confounding in environmental epidemiologic studies of pregnancy outcomes. Epidemiology 3:134-142, 1992.

Hertz-Picciotto I, Smith AH, Holtzman D, et al.: Synergism between occupational arsenic exposure and smoking in lung cancer induction. <u>Epidemiology</u> 3:23-31, 1992.

Weinberg C, Hertz-Picciotto I, Barid D, et al.: Efficiency and bias in studies of early pregnancy loss. <u>Epidemiology</u> 3:17-22, 1992.

Thomas DC, Petitti DB, Goldhaber M, Swan SH, Rappaport E, Hertz-Picciotto I. Reproductive outcomes in relation to malathion spraying in the San Francisco Bay Area, 1981-82. <u>Epidemiology</u> 3:32-39, 1992.

Barbara Hulka

Hulka BS. Epidemiological studies using biological markers: issues for epidemiologists. <u>Cancer Epidemiology</u>, <u>Biomarkers and Prevention</u> 1:13-19, 1991.

Coker AL, Hulka BS, McCann MS, Walton LA. Barrier methods of contraception and cervical intraepithelial neoplasia. <u>Contraception</u> 45(1):1-10, 1992.

McCann MF, Irwin DE, Walton LA, Hulka BS, et al.: Nicotine and Cotinine in Cervical Mucus. <u>Cancer Epidemiology</u>, <u>Biomarkers and Prevention</u> 1:125-129, 1992.

Hulka BS, Margolin BS. Methodological issues in epidemiologic studies using biologic markers. Amer J Epidemiol 135:100-109, 1992.

Wheat JR, Graney MJ, Schachtman RH, Ginn GL, Patrick DL, Hulka BS. Does workplace health promotion decrease medical claims? <u>Amer J Prev Med</u> 8:110-114, 1992.

Committee on the Relationship Between Oral Contraceptives and Breast Cancer (Henderson MM, Dorflinger LJ, Fishman J, Foster HW, Gump FE, Hellman S, Hulka BS, Mattison DR, McKay SAR). <u>Oral Contraceptives and Breast Cancer</u>. National Academy Press, Washington, DC, 1991.

Moorman PG, Hulka BS. Menopausal hormones and the risk of breast cancer. The Endocrinologist 2(3):189-194, 1992.

Coker AL, Rosenberg AJ, McCann MF, Hulka BS: Active and passive cigarette smoke exposure and cervical intraepithelial neoplasia. <u>Cancer Epidemiology.</u>
<u>Biomarkers and Prevention</u> 1:349-356, 1992.

Berton Kaplan

"Social Environment and Social Support" with others. Cancer 67:788-793, 1991.

Mendes de Leon CF, Powell LH, Kaplan BH: Change in coronary-prone behaviors in the recurrent coronary prevention project. <u>Psychosomatic Medicine</u> 53:407-419, 1991.

Kaplan BH: Social health and the forgiving heart: The type B story. <u>Journal of Behavioral Medicine</u> 15:3-14, 1992.

Dana Loomis

Loomis DP, Savitz DA: Occupation and leukemia mortality among men in 16 states. Amer J Indust Med 19:509-21, 1991.

Loomis DP: Occupation, industry and motor vehicle crash fatalities in 20 states, 1986-1987. Am J Public Health 81:733-735, 1991.

Kaste LM, Loomis DP, Weintraub JA, Disney JA. Relationships between reported dental utilization and children's annual caries increments [abstract]. <u>J Dent Res</u> 70(special issues):269, 1991.

Beth Newman

Selby N, Reed J, Newman B, Fabsitz RR, King MC, Carmelli D. Effects of selective return on estimates of heritability for body mass index in the National Heart, Lung and Blood Institute Twin Study. <u>Genetic Epidemiology</u> 8:371-380, 1991.

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Andrew Olshan

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Olshan AF: Familial and genetic associations. In <u>Epidemiology and Biology of Multiple Myeloma</u>. M. Potter and GI Obrams (eds.), Berlin:Springer-Verlag, pp. 31-39,1991.

David Savitz

Checkoway H, Savitz DA, Heyer NJ: Assessing the effects of nondifferential misclassification of exposures in occupational studies. Applied Occupational and Environmental Hygiene 6:528-33, 1991.

Chestnut LG, Schwartz J, Savitz DA, Burchfiel CM: Pulmonary function and ambient particulate matter: epidemiological evidence from NHANES I. <u>Archives of Environmental Health</u> 46:135-44, 1991.

Lasisse DL, Savitz DA, Hamman RF, et al.: Invasive cervical cancer and intrauterine device use. <u>Inter J Epidemiol</u> 20:865-70, 1991.

Savitz DA, Schwingl PJ, Keels MA: Influence of paternal age, smoking, and alcohol consumption on congenital anomalies. <u>Teratology</u> 44:429-40, 1991.

Brenner H, Savitz DA, Jockel KH, Greenland S: Effects of nondifferential exposure misclassification in ecologic studies. <u>Amer J Epidemiol</u> 135:85-95, 1992.

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Victor Schoenbach

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Stange KC, Strecher VJ, Schoenbach VJ, et al.: Psychosocial predictors of participation in a worksite health promotion program. <u>J Occupational Medicine</u> 33(4):479-485, 1991.

Landis SE, Schoenbach VJ, Weber DJ, et al.: Results from a randomized trial of partner notification for HIV infection in North Carolina. N. Engl J Med 326(2):101-6, 1992.

Richard Seed

Frommel TO, Fujikura Y, Seed JR: Tissue alterations in <u>Microtus montanus</u> chronically infected with <u>Trypanosoma brucei gambiense</u>. <u>J Parasitology</u> 77:164-166, 1991.

Ciesielski SD, Seed JR, Esposito DH, Hunter N: The epidemiology of tuberculosis among North Carolina migrant farm workers. <u>JAMA</u> 265:1715-1719, 1991.

Carl Shy

Tolbert PE, Shy CM, Allen JW. Micronuclei and other nuclear anomalies in buccal smears: a field test in snuff users. <u>Amer J Epidemiol</u> 134:840-850, 1991.

Tolbert PE, Shy CM, Allen JW: Micronuclei and other nuclear anomalies in buccal smears: methods and development. <u>Mutat Res</u> 271:69-77, 1992.

Lola Stamm

Keen MG, Stamm LV, Bassford, Jr. PJ: Susceptibility of <u>treponema pallidum</u> and other selected spirochetes to zidowdine. <u>J Antimicrob. Chemother</u> 29:447-453, 1992.

James Thomas

Thomas JC, Bendana N, Waterman SW, et al.: Risk factors for carriage of meningococcus in the Los Angeles County men's jail system. <u>Am J Epidemiol</u> 133:286-95, 1991.

Ewert D, Thomas JC, Chun L, et al.: Measles vaccination coverage among Latino children aged 12-59 months in Los Angeles County: a household survey. Am J Public Health 81:1057-1059, 1991.

Thomas JC, Neumann CN: Choosing an appropriate measure of diarrhea occurrence, with examples from a community-based study in rural Kenya. <u>Int J Epid</u> 21:589-593, 1992.

<u>Herman Tyroler</u>

Moorman PG, Hames CG, Tyroler HA: Socioeconomic status and morbidity and mortality in hypertensive blacks. In <u>Cardiovascular Diseases in Blacks</u>, E. Saunders and AN Brest (eds.), F. A. Davis Company, Philadelphia, PA 1991, pp. 179-104.

Yusuf S, Wittes J, Probstfield J, Tyroler HA: Analysis and interpretation of treatment effects in subgroups of patients in randomized clinical trials. <u>JAMA</u> 266(1):93-98, 1991.

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White AD, Hames CG, Tyroler HA. Serum cholesterol and 20-year mortality in black and white men and women aged 65 and older in the Evans County Heart Study. Ann Epidemiol 2(1/2):85, 1992.

Tyroler HA and Ford CE: Serum cholesterol and CHD risk in female and older hypertensives: the experience under usual community care in the Hypertension Detection and Follow-up Program. Annals of Epidemiology 2(1/2):155, 1992.

Sorel JE, Heiss G, Tyroler HA, Davis WB, Wing SB, Ragland DR: Black-white differences in blood pressure among participants in NHANESII: The contribution of blood lead. <u>Epidemiology</u> 2(5):348, 1991.

Arnett DK, Strogatz DS, Ephross SA, Hames CG, Tyroler HA: Greater incidence of electrocardiographic left ventricular hypertrophy in black men than in white men in Evans County, Georgia. <u>Ethnicity and Disease</u> 2:10-17, 1992.

Kristen Weigle

Weigle KA, Valderrama L, Arias LA, et al.: Leishmanin skin test standardization and evaluation of safety, dose, storage, longevity of reaction and sensitization. Am J Trop Med Hyg 44:260-271, 1991.

Kalsbeek WO, Weigle KA, Allred NJ, et al.: A comparison of survey designs for estimating childhood immunization rates. American Statistical Association, Proceedings of the Section on Survey Research Methods 175-180, 1991.

Steven Wing

Wing SB, Shy CM, Wood JL, et al.: Mortality among workers at Oak Ridge National Laboratory. <u>JAMA</u> 265:1397-1402, 1991.

Wing S, Shy CM, Wood JL, et al.: Reply to comments by Gilbert and Prichard. <u>Health Physics</u> 62:261-264, 1992.

Wing S, Shy CM, Wood JL, et al.: Reply to letter of Maienschein and Peelle. <u>JAMA</u> 267:929-930, 1992.

Manton K, Stallard E, Wing S: Analyses of black and white differentials in the age trajectory of mortality in two closed cohort studies. <u>Statistics in Medicine</u> 10:1043-1059, 1991.

Casper M, Wing S, Strogatz D: Changes in the magnitude of black-white differences in stroke mortality by community occupational structure. \underline{J} <u>Epidemiol & Commun Health</u> 45:302-306, 1991.

Wing S, Barnett E, Casper M, Tyroler HA: Geographic and socioeconomic variation in the onset of decline of coronary heart disease mortality in white women. Am J Public Health 82:204-209, 1992.

Wing S, Shy CM, Wood JL, et al.: Public health effects of occupational and environmental radiation exposure (letter). <u>JAMA</u> 267:653-654, 1992.

IV. FACULTY

A. List of Faculty [* indicates primary of multiple academic appointments] 1. Full-Time Faculty Ralph S. Baric, Assistant Professor J. Ed Hall, Associate Professor Gerardo Heiss, Professor Irva Hertz-Picciotto, Assistant 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 Berton H. Kaplan, Professor Dave Kleinbaum, Professor *Professor, Biostatistics Suzanne Landis, *Research Assistant Professor Clinical Assistant Professor, Medicine Dana Loomis, Research Assistant Professor Beth Newman, Assistant Professor David A. Savitz, Associate Professor Joellen Schildkraut, Research Assistant 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, Epidemiology Professor, Environmental Sciences and Engineering Clinical Professor, Family Medicine Lola Stamm, Assistant Professor James Thomas, Assistant Professor Herman A. Tyroler, Alumni Distinguished Professor Marilyn Vine, Research Assistant Professor David Weber, *Assistant Professor, Medicine Assistant Professor, Epidemiology Kristen Weigle, Assistant Professor

Steven B. Wing, Research Assistant Professor

- Part-Time Faculty
 Margaret F. McCann, Research Assistant Professor
- 3. Visiting Faculty
- 4. Adjunct and Fixed-Term Joint Appointments Timothy Aldrich, Adjunct Assistant Professor Naomar Almeida-Filho, Adjunct Associate Professor Elizabeth Andrews, Adjunct Assistant Professor Donna Baird, Adjunct Assistant Professor James Beck, 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 Douglas S. Campbell, Adjunct Assistant Professor Thomas Cole, Adjunct Assistant Professor Gwen Collman, Adjunct Assistant Professor Joan Cornoni-Huntley, Adjunct Professor John R. Crouse, Adjunct Associate Professor Clin. Professor, Medicine and Family Medicine *Adjunct Prof., Social and Administrative Medicine Frank Crout, Adjunct Assistant Professor Deborah Dawson, Adjunct Assisant Professor Gordon H. DeFriese, Clinical Professor, Epidemiology *Professor, Social and Administrative Medicine Richard B. Everson, Adjunct Professor Robert Fletcher, Clinical Professor Judith A. Fortney, Adjunct Associate Professor Jean French, Adjunct Professor Joanne Garrett, Adjunct Research Instructor Richard C. Graves, Research Associate Professor Raymond S. Greenberg, Adjunct Associate Professor Jack Griffith, Adjunct Professor Harry A. Guess, Adjunct Professor Curtis G. Hames, Clinical Professor Russell P. Harris, Adjunct Assistant Professor *Research Assistant Professor, Medicine Carl G. Hayes, Adjunct Professor Siegfried H. Heyden, Adjunct Professor Michael Hogan, Adjunct Associate Professor Nancy Hunter, Adjunct Assistant Professor Sherman James, Adjunct Professor Eric S. Johnson, Adjunct Assistant Professor Ulrich Keil, Adjunct Professor Richard J. Levine, Adjunct Associate Professor Gory Love, Adjunct Associate Professor Neil MacKenzie, Adjunct Assistant Professor J. Newton MacCormack, Adjunct Associate Professor Kathryn Magruder-Habib, Adjunct Assistant Professor Peter Margolis, Clinical Assistant Professor Melinda S. Meade, Adjunct Professor, Epidemiology *Professor, Geography

Wilbur Milhous, Adjunct Associate Professor Dexter Morris, Adjunct Assistant Professor George R. Parkerson, Adjunct Associate Professor Miquel Porta, Adjunct Associate Professor Walter J. Rogan, Adjunct Associate Professor Carol Runyan, Adjunct Associate Professor Desmond K. Runyan, Clinical Assistant Professor Gregory Samsa, Adjunct Assistant Professor Dale Sandler, Adjunct Associate Professor Robert S. Sandler, Clinical Associate Professor Epidemiology *Associate Professor, Medicine Ilene C. Siegler, Adjunct Associate Professor David Sheps, Clinical Professor Philip Sloane, Clinical Associate Professor C. Gregory Smith, Adjunct Assistant Professor John Stamm, Adjunct Professor *Professor and Dean, Dentisry David Strogatz, Adjunct Assistant Professor Michael R. Swift, Clinical Professor, Epidemiology *Professor, Medicine Patricia Tennis, Adjunct Assistant Professor Hugh H. Tilson, Adjunct Professor James F. Toole, Adjunct Professor Christine Uhlinger, Adjunct Assistant Professor Edward H. Wagner, Clinical Professor Hetty Waskin, Adjunct Assistant Professor Jane Weintraub, Adjunct Associate Professor Alice White, 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

B. Changes During the Year.

- 1. Additions, effective 1990/91
 Andrew Olshan, Assistant Professor
 John C. Barefoot, Adjunct Associate Professor
 James C. Barrett, Adjunct Professor
 James D. Beck, Adjunct Professor
 Jeffrey A. Boyd, Adjunct Assistant Profesor
 Dennis A. Clements III, Adjunct Assistant Professor
 Suzanne W. Fletcher, Clinical Professor
 Ronald J. Hunt, Adjunct Professor
 Ruth E. Little, Adjunct Professor
 William F. McDonnell, Adjunct Associate Professor
 David F. Ransohoff, Clinical Professor
 David C. Sokal, Adjunct Assistant Professor
 Paul E. Stang, Adjunct Assistant Professor
- 2. <u>Promotions</u>, effective 1990/91 None

- 3. <u>Changes in Rank:</u> None
- 4. <u>Leaves</u>: None
- 5. <u>Losses</u>: Resignations Margaret McCann, Research Assistant Professor Joellen Schildkraut, Research Assistant Professor

<u>Losses</u>: Retirement None

C. Honors

 $\ensuremath{\mathsf{Dr}}.$ Richard Seed was elected as President of the American Parasitology Society.

Dr. Victor Schoenbach was appointed as chair of Ad Hoc Committee on Minority Affairs of the American College of Epidemiology. He was also elected as secretary to the Delta Omega, Theta Chapter.