

ANNUAL REPORT

DEPARTMENT OF EPIDEMIOLOGY

July 1, 1964 - June 30, 1965

I. ORGANIZATION

A. FULL-TIME FACULTY

John Cassel, M.B.B.Ch., M.P.H., Professor and Head  
of Department - On leave of absence

John T. Fulton, D.D.S., Professor of Dental  
Epidemiology; Acting Head of Department

C. David Jenkins, Ph.D., Associate Professor of  
Epidemiology

Ralph Patrick, Ph.D., Associate Professor of  
Epidemiology (Anthropology)

Cecil Slome, M.D., Associate Professor of  
Epidemiology

Herman A. Tyroler, M.D., Associate Professor of  
Epidemiology

Robert N. Wilson, Ph.D., Professor of Epidemiology,  
(Sociology)

B. PART-TIME FACULTY

Dr. John Hughes, Visiting Associate Professor

C. OTHER FULL-TIME PERSONNEL

Gordon T. Stewart, M.D., Visiting Professor

Marshall Lichtman, M.D., Visiting Research Associate

Charles Mercer, Research Associate - (Through Sept., 1964)

James Beck, Research Associate

Jo Maready, Research Associate

Alice Wellford, Research Associate

Sandra Boggs, Research Associate

Carol Blanton, Secretary

Betty L. Warren, Departmental Secretary

Gay Goss, Secretary - (Through Sept., 1964)

Loretta Sawyer, Secretary

Brian Butcher, Laboratory Technician

D. OTHER PART-TIME PERSONNEL

Natalie Harbin, Secretary

II. BUDGETS AND GRANTS

<u>SOURCE</u>	<u>PERSONNEL</u>	<u>FELLOW- SHIPS</u>	<u>NON- SALARY</u>	<u>RESEARCH AND/OR TRAINING</u>	<u>OVER- HEAD</u>	<u>TOTAL</u>
USPHS NIH	45,721	30,716	6,400	Teaching	6,609	89,446
USPHS NIH	12,500		9,054	Research	4,311	25,865
USPHS NIH	19,647		200	Teaching	1,603	21,450
USPHS NIH	10,000	balance remaining from previous year. extended 1 year		Teaching		10,000
USPHS NIH	16,808		27,767	Research	8,909	53,484
PEACE CORPS	53,733		33,009	Research	16,879	103,621
UNIVERSITY FUNDS	41,284			Teaching		41,284
RHODES FUNDS	13,050			Teaching & Research		13,050
GENERAL RESEARCH	9,923			Research		9,923
<b>TOTAL</b>	<b>222,666</b>	<b>30,716</b>	<b>76,430</b>		<b>38,311</b>	<b>368,123</b>

III. PHYSICAL FACILITIES

The Department of Epidemiology is located on the second floor of the North Wing of the New School of Public Health Building. There are eight offices occupied by professors, three by research associates, and one large office used by the

doctoral students. In addition, there is a conference room, an IBM machine room with office space for the machine room supervisor and one large office occupied by the three secretaries.

The electronic data processing equipment belonging to the Department includes: IBM 101, 026, 083, 085, and 514.

Two small microbiology laboratories, located on the first floor of the South Wing, have been furnished and are now being used by Department personnel. A third laboratory in the North Wing, second floor, is being remodelled for Department use and will be functioning soon.

#### IV. INSTRUCTIONAL ACTIVITIES

During the current year there have been seventeen students majoring in the field of Epidemiology. Four of these students will complete the requirements for the degree of Master of Public Health by August 1965. One has completed course requirements for the degree of Doctor of Public Health and will complete his work on his dissertation in June. Four have completed course requirements for the degree of Ph.D. and are working on dissertations. Three students will spend an additional year working toward their Ph.D. We have four students who will spend an additional year for the M.P.H. Two students are working for Ph.D.'s in Sociology and are taking Epidemiology as their minor.

A. Departmental Instructional Program in the School of Public Health

<u>COURSE</u>	<u>NUMBER OF STUDENTS</u>
P.H. 160 - PRINCIPLES OF EPIDEMIOLOGY	135
P.H. 261 - DENTAL EPIDEMIOLOGY	10
P.H. 262 - EPIDEMIOLOGY IN PUBLIC HEALTH FAMILY PRACTICE	28
P.H. 263 - COMPARATIVE EPIDEMIOLOGY	17
P.H. 264 - CULTURE AND HEALTH	14
P.H. 265 - HISTORY OF EPIDEMIOLOGY	est. 15
P.H. 266a- EPIDEMIOLOGICAL INVESTIGATION	23
P.H. 266b- FIELD INVESTIGATION	14
P.H. 360 - RESEARCH IN EPIDEMIOLOGY	2

B. Course Teaching Outside the Department

- a) Dental School: The department is responsible for the total teaching of the course in Dental Epidemiology to 3rd year dental students.
- b) Medical School: Faculty members of this department participate in courses in all 4 years in the Medical School. These courses are:  
1st year-Human Ecology  
2nd year-Epidemiology  
3rd year-The Doctor and His Community  
4th year-The Physician's Role in Medical Care
- c) Department of Anthropology: Dr. Ralph Patrick is responsible for teaching an anthropology course for the Department of Anthropology.

- c) Department of Sociology: Dr. Robert Wilson is responsible for teaching Literature and Society in the Department of Sociology.
- c) Department of Pathology: Dr. Gordon Stewart teaches undergraduate students, participates in infectious disease consultative service, attends rounds and gives a seminar to residents and interns under the terms of his joint appointment to the Medical School.
- d) Duke University School of Nursing: The section of a course entitled Public Health Sciences which is devoted to Epidemiology is taught by this department.
- d) Duke University Medical School Dr. Stewart gave several lectures to the Department of Preventive Medicine.

#### V. SCHOOL ACTIVITIES IN THE GREATER UNIVERSITY

- Member of Executive Faculty, School of Public Health Dr. Fulton
- Member, Traineeship Committee, School of Public Health Dr. Fulton
- Professor in the Department of Sociology Dr. Wilson
- Guest Lecturer, National Development Seminar, University of North Carolina, 1964 Dr. Wilson
- Professor in the Department of Pathology and Bacteriology Dr. Stewart
- Appointment as Associate Professor in Department of Anthropology Dr. Patrick
- Advisor for Alpha Tau Omega Fraternity Dr. Patrick
- Clinical Assistant Professor of Psychology in the Department of Psychiatry Dr. Jenkins

Lecture Series, "Epidemiology for Psychologists" given to faculty and interns of the Psychology Section, Dept. of Psychiatry, N.C. Memorial Hospital, Nov.-Dec. 1964.	Dr. Jenkins
Member, Cardiology Unit, N.C. Memorial Hospital	Dr. Lichtman
Member of the Advisory Board on Environmental Health Study.	Dr. Stewart
VI. SERVICES TO STATE AND NATION	
Editorial Board, American Public Health Association.	Dr. Fulton
Elected Counselor, American Public Health Association.	Dr. Fulton
Consultant to Division of Dental Hygiene of the State Health Department.	Dr. Fulton
Consultant to Division of Dental Public Health and Resources of the Public Health Service.	Dr. Fulton
Member of Nurse-Scientist Graduate Training Committee, U.S. Public Health Service.	Dr. Patrick
Consultant to Southern Regional Education Board, Atlanta, Georgia.	Dr. Patrick
Consultant to U.S. Department of Agriculture, Federal Extension Service, Atlanta, Georgia.	Dr. Patrick
Consultant to Florida State Board of Health Workshop in Nutrition.	Dr. Patrick
Member, Committee on Social Policy for Health Care, New York Academy of Medicine.	Dr. Wilson
Consultant, Community Action Studies Project, National Commission on Community Health Services.	Dr. Wilson
Consultant, State of North Carolina Department of Mental Health.	Dr. Wilson
Consultant, National Aeronautics and Space Administration.	Dr. Wilson

Visiting Scientist, American Sociol. Assoc. ----National Science Foundation	Dr. Wilson
Consultant, School of Public Health, Univ. of Michigan Associate Editor, <u>Journal of Health and Human Behavior</u>	Dr. Wilson
Visiting Lecturer, Department of Sociology, Ohio State University	Dr. Wilson
Associate Editor, <u>Social Forces</u>	Dr. Wilson
Consultant, National Aeronautics and Space Administration	Dr. Tyroler
Consultant, Medical Department, New York Times	Dr. Tyroler
Consultant, Medical Department, Champion Paper Company	Dr. Tyroler
Consultant, Georgia State Board of Health; Trappist and Benedictine Monk Study	Dr. Tyroler
Consultant, Charleston Heart Study	Dr. Tyroler
Chief Consultant in Psychology, Western Collaborative Group Study and the Harold Brunn Institute, San Francisco, California	Dr. Jenkins
Chief Consultant in Psychology, Heart Disease Studies, Evans County, Georgia	Dr. Jenkins
Consultant on Heart Disease Research, VA Center, Kecoughtan, Virginia	Dr. Jenkins
Visiting Lecturer, Social Science Program, Dept. of Public Health Practice, Harvard University School of Public Health	Dr. Jenkins
Member, Public Relations Advisory Committee, N.C. Heart Association	Dr. Jenkins
Consultant, Randolph County, N.C. Health Dept. in studies of distribution of blood pressures.	Dr. Lichtman
Consultant, Evans County Georgia Health Dept. in epidemiological studies of cardiovascular disease	Dr. Lichtman
Member, Heart Disease Control Program, U.S.P.H.S.	Dr. Lichtman



Co-Director of the Peace Corps TB Control Project in Malawi, Africa	Dr. Slome
Consultant, Randolph County, N.C. Health Dept. in studies of distribution of blood pressures.	Dr. Slome
Visiting Professor, Department of Medicine, University of Cincinnati.	Dr. Stewart
Consultant to Medical Computer Center, University of Missouri	Dr. Stewart
Guest lecturer NIH, Bethesda, Md.	Dr. Stewart
Guest lecturer Henry Ford Hospital, Detroit, Mich.	Dr. Stewart
Guest lecturer Michigan State University, East Lansing, Mich.	Dr. Stewart

#### VII. RESEARCH PROJECTS

1. N. C. Dental Health Project
2. The Evans County Cardiovascular Disease Study
3. Evans County Lipoprotein Study
4. Industrial Health Study
  - a. Champion Paper and Fibre
  - b. New York Times
5. Health Consequences of Cultural Change (Papago Indians)
6. Personality Factors in Coronary Heart Disease
7. The Use of Semantic Differential as a Tool for Determining Perceptions for Disease
8. Community Social Structure and Health Action
9. National Aeronautics and Space Administration
10. Monk Study - Trappist and Benedictine

11. Randolph County, N.C. Blood pressure study, with particular attention to racial differences.
12. Reproducibility of population "summary statistical" values of blood pressures over periods of time.
13. Peace Corps TB Control Project in Malawi, Africa.
14. Surveillance of hospital infection. Factors affecting pathogenicity of staphylococci.

#### VIII. PUBLICATIONS

- Dr. John Cassel                    "Social Science Theories as a Source of Hypotheses in Epidemiological Research," American Journal of Public Health, 54 (September 1964), 1482-38.
- Dr. John Cassel                    Book Review. Psychiatric Disorder Among the Yoruba. Cornell University Press. American Journal of Public Health. (In Press)
- Dr. John Fulton  
(with J.T. Hughes)                The Life Cycle of Human Teeth. Chapel Hill, N.C., 1964, pp. 37.
- Dr. John Fulton  
with  
Dr. H.A. Tyroler                    "Patterns of Preventive Health Behavior in Populations. Part Two: Levels of Carious Tooth Salvage within Families." J. Health & Human Behavior, (In press).
- Dr. H. A. Tyroler  
(With A. L. Johnson)                "Patterns of Preventive Health Behavior in Populations. Part One: Acceptance of Oral Poliomyelitis Vaccine within Families, J. Health & Human Behavior, (In press)
- Dr. Cecil Slome  
(With Sidney Kark)                "Epidemiological Analysis of the Hemoglobin Picture in Parturient Women in Jerusalem," American Journal of Public Health, 54 (1964), 947-50.

- Dr. C. D. Jenkins      Identification of Public Beliefs about Health Problems as a Basis for Predicting Use of Health Services. Final Project Report to Department of Health, Education, and Welfare. Chapel Hill, N.C.: University of North Carolina, Department of Epidemiology, 1964, pp. x + 187.
- Dr. C. D. Jenkins      "Factors Influencing Vaccine Acceptance." Chap. IV. in Neill, J.S. and Bond, J. O. (Eds.) Hillsborough County Vaccine Program. Florida State Board of Health Monograph No. 6, Jacksonville, 1964.
- Dr. C. D. Jenkins      "The Weight Discrimination Test as an Indicator of Brain Pathology." Journal of Clinical Psychology, 1965 (Jan), 21, 76-77.
- Dr. C. D. Jenkins      Comparison of Public Beliefs and Feelings about Tuberculosis, Polio, Cancer, and Mental Illness. Submitted for publication to American Journal of Public Health.
- Dr. C. D. Jenkins  
(With M. Friedman &  
R. H. Rosenman)      The Jenkins Activity Survey for Health Prediction. Chapel Hill: C. David Jenkins, 1965. (An objective Psychological test for estimating risk of coronary heart disease in men.)
- Dr. R. N. Wilson      Review of Stanley H. King, Perceptions of Illness and Medical Practice (New York: Russell Sage Foundation, 1962, In Journal of Health and Human Behavior, 5 (Winter, 1964), 177-78.
- Dr. R. N. Wilson      The Arts in Society (Co-author & editor) Prentice-Hall, Inc., 1964.
- Dr. R. N. Wilson      Coming Home: The Problem of After-care, Southern Regional Education Board and the National Institute of Mental Health, 1965.

- Dr. R. N. Wilson                      Review of Cesar Grana, Bohemian Versus Bourgeois: French Society and the French Man of Letters in the Nineteenth Century, New York and London: Basic Books, 1964, in American Sociological Review, Vol. 30, No. 1, February, 1965.
- Dr. M. A. Lichtman  
(With C. G. Hames,  
& J. R. McDonough)                      "Serum gamma globulin levels among Negroes and whites in Evans County, Georgia." Clin. Res. 13:39, 1965.
- Dr. M. A. Lichtman  
(J. R. McDonough, et al)                      "The relationship of hematocrit to Cardiovascular states of health in the Negro and white population of Evans County, Georgia." J. Chron. Dis. 13:243, 1965.
- Dr. M. A. Lichtman  
(C. G. Hames, et al)                      "Serum protein electrophoretic fractions among Negroes and whites in Evans County, Georgia." Amer. J. Clin. Nutrit. (In press).
- Dr. M. A. Lichtman                      (With W. R. Slaun White, Jr. and A.A. Sandberg) "Studies on phenolic Steroids in human subjects. IV. Biosynthesis of estriolglucosiduronic acid 16-<sup>14</sup>C by human liver," Journal of Clinical Endocrinology, 24 (1964), 638.
- Dr. G. T. Stewart                      (With R. J. Holt) "Production of Amidase and Beta Lactamase by Bacteria," Journal of General Microbiology, 36 (August 1964), 203-13.
- Dr. G. T. Stewart                      (With Benjamin M. Kagan and Elmo R. Martin) "L Form Induction of Naturally Occuring Mathicillin-Resistant Strains of Staphylococcus Aureus," Nature, 203 (September 5, 1964), 1031-33.
- Dr. G. T. Stewart                      (With R. L. Newman) "Treatment of Infections Due to Ps. Pyocyanea with the Methane Sulphonate of Polymyxin B," Clinical Trials Journal, I November 1964, 11-13.

- Dr. G. T. Stewart (With R. J. Holt) "Laboratory and Clinical Results with Cephaloridine," The Lancet, 2 (December 19, 1964), 1305-09.
- Dr. G. T. Stewart "Steroid antibiotics" Progress in Drug Therapy. Vol. II, 1964, pp. 137-143.
- Dr. G. T. Stewart "Polyvinyl-pyrrolidone-iodine: an assessment of antibacterial activity", (With B. A. Siggers) J. Hyg., Camb. (1964), 62, 509.
- Dr. G. T. Stewart "Differentiation of Amidase and B-Lactamase by Infrared Absorption." (With M. J. Chapman, R. J. Holt, and A. R. Mattocks), J. gen. Microbiol. (1964), 36, 215-223, Printed in Great Britain.

IX. SCIENTIFIC PAPERS PRESENTED

- Dr. Tyroler "Evaluation in Tuberculosis Control Programs." Paper presented at Institute on Tuberculosis, Blue Ridge Assembly, Black Mountain, N.C. August 1964.
- Dr. Tyroler "Blood Pressure Studies of the Papago Indians." Presented at the Conference on Cardiovascular Disease Epidemiology, Chicago, Ill.
- Dr. Tyroler "Computer in Occupational Medicine." Paper presented at the Annual Meeting of the Industrial Medical Association, Miami Beach, Fla., April 5, 1965.
- Dr. Patrick "The Modernization Process Among the Papago Indians." Paper presented to Annual Meeting, American Anthropological Association, Detroit, Mich., November 20, 1964.
- Dr. Wilson "Arthur Miller: The Salesman and Society", to the Annual Meeting, American Sociological Association, Montreal, P.Q., Sept. 3, 1964.

- Dr. Wilson "Imagination and Discipline: Research As Social Behavior", to Southern Institute Region, National Association of Social Workers, June 10, 1964.
- Dr. Wilson "Improving Planning in Health Education: Social and Cultural Factors Influencing Planning", to Semiannual staff Conference for Health Educators, North Carolina State Board of Health, Greensboro, N.C., December 10, 1964.
- Dr. Wilson "Social Problems in the British New Towns," to North Carolina Section, American Institute of Planners, Chapel Hill, N.C., October 30, 1964.
- Dr. Wilson "Man's Environment in the Twentieth Century: Sociological Factors," to Seminar, Department of Environmental Sciences and Engineering, School of Public Health, U.N.C., April 3, 1965.
- Dr. Stewart "The Lipases and Pigments of Staphylococci," Paper presented to the New York Academy of Sciences Conference on the Staphylococci: Ecologic Perspectives, New York City, October 22, 1964.
- Dr. Stewart "Mode of action of antibiotics," Paper presented to the College of American Pathologists SE meeting, Chapel Hill, N.C., January 15, 1965.

X. FULL-TIME FACULTY APPOINTMENTS, PROMOTIONS, RESIGNATIONS, LEAVES OF ABSENCE

- A. Appointments: Gordon T. Stewart, M.D., Visiting Professor of Epidemiology, Sept., 1964.
- B. Promotions: C. D. Jenkins, Ph.D.; from Assistant Professor to Associate Professor.
- C. Resignations: Marshall A. Lichtman, M.D., Visiting Research Associate, June 30, 1965.
- Charles V. Mercer, Research Associate, September 30, 1964.