ANNUAL REPORT

DEPARTMENT OF EPIDEMIOLOGY

July 1, 1966 - June 30, 1967

Highlights of the Year

From a number of important events and trends that have occurred during the year, three have been selected for special mention.

- The trend toward increasingly high caliber students applying to the department. This year we have probably the brightest group of M.P.H. candidates and the highest quality of dissertation proposals from doctoral candidates in the history of the Department.
- 2. The increased opportunities for effective collaborative endeavours with local, national and international organizations. These include teaching, research and consultative activities with other components of this University (Medical, Dental and Nursing Schools, departments of Sociology, Anthropology, Psychology, and City Planning) with Duke and Bowman Grey Medical and Nursing Schools, with the Regional program, the Appalachian Program OEO, the N.C. Fund, various state and local health departments, with the U.S. Public Health Service (6 of the 9 senior faculty members are on major P.H.S. or NIH study sections or equivalent committees), with PAHO and WHO.
- 3. The possibilities of broadening our spheres of activities especially in the field of International Health.

ANNUAL REPORT

DEPARTMENT OF EPIDEMIOLOGY

July 1, 1966 - June 30, 1967

I. ORGANIZATION

A. FULL-TIME FACULTY

Evelyn Anderson, M.P.H., Research Associate Caroline Becker, M.D., Assistant Professor John Cassel, M.B.B.Ch., M.P.H. Professor and Chairman Joan C. Cornoni, M.P.H., Instructor John T. Fulton, D.D.S., Professor C. David Jenkins, Ph.D., Associate Professor Edward Grafton McGavran, M.D., M.P.H., Sc.D., Professor Berton H. Kaplan, Ph.D., Assistant Professor (Sociology) Abdel R. Omran, M.B.B.Ch., Associate Professor Ralph Patrick, Ph.D., Associate Professor (Anthropology) - leave of absence William Peck, M.D., Associate Professor Cecil Slome, M.D., Associate Professor Gordon T. Stewart, M.D., Professor Herman A. Tyroler, M.D., Professor A. Wouter Voors, M.D., Dr. P.H., Instructur Robert N. Wilson, Ph.D., Professor (Socioloty) thru August 31, 1966

B. PART-TIME FACULTY

Capt. James H. Boyers, Adjunct Associate Professor Dr. Hilliard Estes, Visiting Associate Professor Dr. Curtis Hames, Visiting Associate Professor Dr. Siegfried Heyden, Adjunct Associate Professor Dr. David H. Stoddard, Visiting Associate Professor

C. OTHER FULL-TIME PERSONNEL

Jerry Allsbrook, Laboratory Technician Carol Blanton, Secretary Brian Butcher, Laboratory Technician Lindsay Cleveland, Research Associate

- ∡George Christopherson, Research Associate
- *Linda Coats, Clerk
 H. Max Drake, Research Associate
 Wendy A.M. French, Secretary
- X Groover Hayes, Research Associate
- X Peggy Lomax, Research Associate
 Jo Maready, Research Associate
 Edward Miller, Research Associate
 Harriet Miller, Research Associate
 Salwa Mishriky, Key Punch Operator
 Lily Oey, Laboratory Technician
 Philip Spiers, Research Associate
 Lucille Thompson, Secretary
- Myrna Vick, Secretary Betty L. Warren, Secretary
- X Alice Wellford, Research Associate Stephen Zyzanski, Research Associate

D. OTHER PART-TIME PERSONNEL

Richard Ballew, Research Assistant James Beck, Research Associate Phoebe Beck, Research Associate Andrew Bobroff, Lab Helper Robert Boone, Research Assistant Mary Crawford, Research Associate Jaffray Cuyler, Research Associate George Flink, Research Assistant Barbara Grimes, Research Associate Natalie Harbin, Secretary James Kelly, Research Assistant Jane Sprague, Research Assistant Garland H. Talton, Lab Helper Lucille Turner, Laboratory Assistant Hill Wellford, Research Associate Gail Van Wie, Research Associate Nancy Ward, Research Assistant William Weems, Lab Helper

II. BUDGETS AND GRANTS

SOURCE	PERSONNEL	FELLOW- SHIPS	NON- SALARY	RESEARCH AND/OR TRAINING	OVER- HEAD	TOTAL
		V				
USPHS NIH	20,694	-	4,384	Research	5,735	30,813
USPHS NIH	14,560	-	1,940	Training	1,320	17,820
USPHS BSS	23,123	**	3,420	Research	5,309	31,852
USPHS NIH	42,800	21,700	2,800	Training	5,224	72,524
USPHS NIH	18,450	12,830	1,850	Training	2,517	35,777
USPHS NIH	14,840	13,173	500	Training	2,137	30,650
PEACE CORPS	49,401	-	20,433	Research	6,560	76,394
PEACE CORPS	19,906	-	14,601	Research	6,904	41,411
FORD	19,360	15,000	3,450	Training		37,810
NASA	26,320	-	9,513	Research	7,167	43,000
UNIVERSITY FUNDS	61,966	-	3,000	Teaching		64,966
RHODES FUNDS	17,760	~	8,300	Research Teaching	&	26,060
GENERAL RES EARCH	20,154	-		Research		
TOTAL	349,334	62,703	74,191		42,873	509,077
SULLIARY	LIARY		TOTAL FUNDS			
University Funds Rhodes Funds General Research Department Grants		64,966 26,060 20,154 397,897				



The Department of Epidemiology is located on the second floor of the North Wing of the 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 three research associates. There are two offices which are occupied by six secretaries.

The electronic data processing equipment belonging to the Department includes: IBM 101, 026, 083, 085, 514 and a verifier. The Department has recently acquired a Teletype Console Computer which we time share with other departments. This is a new concept in computer service in that it gives several departments simultaneous access to a central computer system from many remote locations. This allows for easy expansion of program utilization and reduces programming effort since users can store and retrieve common programs and information.

One small laboratory located on the first floor of the South Wing is the center of the activities in virology -- this serving as a research laboratory and a source for teaching material. The other laboratory which is in the North Wing, second floor, is where microbiological and biochemical work is done in relation to infectious disease and chronic disease. This work is now becoming an important part of the department's activities in teaching and research.

IV. INSTRUCTIONAL ACTIVITIES

During the current year there have been twenty-six students majoring in the field of Epidemiology. Two of these students will complete the requirements for the degree of Master of Public Health by June 1967 and nine by August 1967. Four have completed course requirements for the degree of Ph.D. and are working on dissertations. Nine students will spend an additional year working toward their Ph.D. or Dr.P.H. One student has completed the requirements for the Ph.D. degree and will receive the degree in June 1967. One student will receive an M.S. in August 1967.

Departmental Instructional Program in the School of Public Health

COURSE					NUMBER OF STUDENTS
	EPID.	140	-	PROBLEMS IN EPIDEMIOLOGY	20
	EPID.	141		PROBLEMS IN EPIDEMIOLOGY	1
	EPID.	160	-	PRINCIPLES OF EPIDEMIOLOGY	173 187
	EPID.	211	-	EPIDEMIOLOGY OF COMMUNITY DISEASE	9
	EPID.	261	-	DENTAL EPIDEMIOLOGY	7
	EPID.	262	-	EPIDEMIOLOGY IN PUBLIC HEALTH FAMILY PRACTICE	32
	EPID.	264	-	CULTURE AND HEALTH	27
	EPID.	265	-	HISTORY OF EPIDEMIOLOGY	12
	EPID.	266	-	EPIDEMIOLOGICAL INVESTIGATION	23
	EPID.	360	-	RESEARCH IN EPIDEMIOLOGY	7

Students receiving less than one semester's instruction from the School of Public Health Faculty

A one week short course "Application of Epidemiological Methods to Program Evaluation" was given to 14 trainees from three Public Health Service Regions, for a total of 40 hours of instruction.

Course Teaching Outside the Department

Courses taught in other departments and schools of the University which have been set up for them:

Dental School - Dr. John T. Fulton helps teach the course in Preventive Dentistry - 112, Natural History of Dental Disease, to 50 students. He also helps teach Preventive Dentistry - 136, to 50 students making a total of 8 hours of instruction.

Psychiatry - Dr. C. David Jenkins teaches an Externship in Psychiatry (Adult Out-Patient Clinic) to 70 senior medical students for a total of 80 hours instruction.

Parasitology - Dr. Caroline Becker taught approximately half of Parasitology 237 - Public Health Laboratory Methods I. This is a five hour course taught to 8 students which included 17 lectures and 17 3-hour labs.

Population - Dr. Abdel Omran has been the coordinator of the Population Seminar, a non-credit course of 2 hours every two weeks and given by the Population Center for students majoring in or interested in Population.

Medical School - Dr. Kaplan acted as a preceptor in the Human Ecology Course for approximately 75 freshman medical students for 24 hours of instruction.

Sociology - Dr. Kaplan was a preceptor for 3 trainees in the area of sociology and the health professions for a total of 8 hours of instruction.

Medical School - Dr. Tyroler lectured for 6 hours to 10 students in the Dept. of Preventive Medicine, Epidemiology Class -- Community Psychiatry.

Dr. Tyroler lectured for 1 hour to 75 2nd year medical students.

Teaching at other Universities in courses set up for the students at those Universities:

Duke University - Dr. John Cassel gave 2 lectures (2 hrs. each) to 60 students in the Dept. of Preventive Medicine.

Duke University - Dr. Gordon Stewart lectured for 4 hours to approximately 60 students in the Dept. of Community Medicine.

Duke University - Dr. Cecil Slome teaches a public health course entitled Public Health Sciences which is devoted to Epidemiology. There are 50 students and gives 12 hours of instruction.

Johns Hopkins - Dr. Cecil Slome gave a seminar on Mental University Health to students in the School of Public Health, 75 students, 2 hrs. instruction.

Duke University - Dr. H. A. Tyroler gave 3 two-hour lectures to 2nd year medical students on Epidemiologic Method. There were 70-75 students.

Instruction given to students from other departments and schools in this University enrolled in regular public health courses in the School of Public Health.

Statistics - There was 1 student from the Department of Statistics enrolled in Epid. 160 (3 credit hours) 45 hours instruction.

Nursing - There were two students from the School of Nursing enrolled in Epid. 160 for 3 credit hours - 45 hours of instruction.

Anthropology -There were four students from the Department of Anthropology enrolled in Epid. 160 for 3 credit hours - 45 hours of instruction.

Anthropology -There were three students from the Medical Anthropology program enrolled in Epid. 264 (3 credit hours) 45 hours of instruction.

City
Planning - Dr. Voors gave 4 hours of instruction to a student from City Planning enrolled in PUBH 100 "Human Ecology".

Medical Anthropology - Dr. Caroline Becker gave a 1 hour seminar on Viruses to the Medical Anthropology Seminar group.

There were approximately 15 students.

Medical Anthropology - Dr. Kaplan acted as co-director of the Medical Anthropology Program. There were 8 students and 64 hours of instruction.

In addition to the above listed courses, the faculty of the Department of Epidemiology gave a number of single lectures in courses taught by other departments in the School of Public Health. A few of these are listed below:

- HADM 100 Ecology of Human Health Dr. Gordon Stewart gave several lectures in this course to 42 students.
- HADM 205 Dr. John Cassel gave 1 lecture to 42 students taking this course, Introduction to Medical Care Administration. Dr. John Fulton also gave 1 lecture to this group.
- HADM 211 Dr. Gordon Stewart gave several lectures to 42 students taking Control of Community Disease.
- HADM 270 Dr. Tyroler gave 3 lectures to students taking Personal Health Services Administration II.

All of the faculty act as advisors to students who are working on Masters theses or doctoral dissertations.

Total number of different students (other than School of Public Health) under instruction.

Dental School	100	students	8	hrs.	inst.
Medical School	145	students	12	hrs.	inst.
Anthropology	4	students	45	hrs.	inst.
Duke University	245	students	26	hrs.	inst.
Psychiatry	70	students	3	hrs.	inst.
Johns Hopkins University	75	students	2	hrs.	inst.
Statistics	1	student	45	hrs.	inst.
Nursing	2	students	45	hrs.	inst.
Anthropology	Z _F	students	45	hrs.	inst.
City Planning	1	student	4	hrs.	inst.
Medical Anthropology	13	students	110	hrs.	inst.
Medical School	75	students	24	hrs.	inst.
Sociology	3	students	8	hrs.	inst.
Medical School	35	students	7	hrs.	inst.
Public Health Serivce Nurses	14	students	40	hrs.	inst.
				- The second second	-

V. SCHOOL ACTIVITIES IN THE GREATER UNIVERSITY

Dr. Cassel Member of Executive Faculty, School of Public Health

Member Faculty Council, U.N.C.

Committee to study future of Institute for Research in Social Science

Chairman, Committee on Group Biology, Medical School Curriculum

Director Environmental Health Institute

Member - International Activities Committee

Member - Advisory Committee Division of Education and Research in Community Medical Care

Chairman, Maternal and Child Health Search Committee

Member - Professional Advisory Committee, Orange County Mental Health Association

Dr. Kaplan Chairman, School of Public Health Colloquium Committee

Dr. Stewart Member - Cancer Institutional Grants Committee

Chairman - Preventive Medicine Subcommittee

(Curriculum Review)

Member - Hospital Infection Committee

Dr. Jenkins Member - Internal Committee for the study of the Department of Health Education

Dr. Becker Member - Human Research Review Committee

Member - Library-Reading Room Committee

Dr. Tyroler U.N.C. Aerospace Sciences Committee

SPH Student, Faculty and Staff Council

VI. SERVICES TO STATE AND NATION

Dr. Cassel Ad Hoc Consultant - NIMH

Consultant, Office of Economic Opportunity

Member - Epidemiology & Disease Control Study Section - N.I.H.

USPHS National Center for Health Statistics - Use of Vital Records for Epidemiological Programs

APHA Representative - National Academy of Sciences, National Research Council

Participant - Advisory Committee on Social Science Research in Health, Washington, D. C.

Member - Committee on Teaching of Epidemiology of the Epidemiology Section of the APHA

Fellow - American Public Health Association

Member - North Carolina Public Health Association

Dr. Kaplan Consultant - North Carolina Fund

Dr. Stewart Member of Steering Committee, Penicillin Study Group, American Academy of Allergy

Chairman of Panel on Epidemiology of Drug-Resistant-Infections, American Society for Microbiology

Consultant - Research Triangle Institute

Consultant - Duke University (Biomathematics
research program)

Adviser in Epidemiology - U.S. Marine Bases at Camp Lejeune, North Carolina and Paris Island, South Carolina

Discussant, New York Academy of Sciences (Penicillin Conference)

Lecturer - Medical College of Georgia

Lecturer - Medical Association of Georgia

Lecturer - Illinois Academy of General Practice

Dr. Tyroler

USPHS Community Health Services Research Training Grants Committee

USPHS National Center for Health Statistics, Record Linkage Study Group

Consultant - Division of Indian Health

Consultant - International Biologic Program

Dr. Fulton

Member - National Advisory Public Health Training Council of Editorial Board, APHA

Elected Councelor, Governing Council, APHA

Consultant, Division of Dental Public Health, PHS

Consultant, American Board of Dental Public Health, to Council on Dental Education, American Dental Association.

Dr. Voors

Member Team of Consultants - Navel Research Laboratory at Camp Lejeune, North Carolina

Systems Analyst - Research Triangle Institute

Dr. Slome

Consultant - Division of Nursing, USPHS

Consultant - Houston, Texas City Health Department

Subcommittee - National Center for Vital Statistics

Dr. Jenkins

Consultant - National Tuberculosis Association, Experimental Clinics Project.

Consultant in charge of Behavioral Sciences for the Harold Brunn Institute (Cardiovascular Research), Mount Zion Hospital and Medical College, San Francisco, California

Consultant for Behavioral Sciences, Evans County, Georgia, Study of Atherosclerosis & Heart Disease

Dr. Becker

Moderator - Immunization Activities in "Recent Developments in Communicable Disease Control," Continued Education Series, August 28-September 2, 1966

Consultant - Navel Research Laboratory at Camp Lejeune, North Carolina

Discussant activities with representative of FAO on problems of viruses in foods.

VII. RESEARCH PROJECTS

NASA - Health Implications

Social Science and Law Project--initiation and development of a Russel Sage Foundation program at the University of North Carolina

Evans County Coronary Heart Disease Study

Papago Indian Health and Culture Change

Assessment of Determinants of Hospital Infection

Allergenic Residues in Penicillin

Liquid Crystaline systems

Food Intake Patterns of Denture Candidates

Chemotherapeutic Control of Dental Caries

Johns Hopkins Nationwide Cerebravascular Disease Project

Upper Respiratory Infection Study, Camp Lejeune, North Carolina

Upper Respiratory Infection Study, Great Lakes, Illinois

Blood Pressure in School Children, Randolph County Health Department

T. B. Control in Malawi, Africa

Mental Health in University Students

Mental Health in High School Students

Western Collaborative Group Study (Cardiovascular)

Georgia Food-Store Workers Cardiovascular Study (With Dr. C. G. Hames)

National Tuberculosis Association Experimental Clincs Projects

Development of a psychological test to predict risk of coronary-heart disease (with field studies being conducted in New York City, New York; Buffalo, New York; University Park, Pennsylvania; and Madison, Wisconsin

Cluster Analysis Method

Studies on Transmission of Viruses in Foods -

- A. Viability and stability of adenovirus
- B. Effect of "low temperature" and "high temperature short time" methods of pasteurization

Viability of adenovirus in Apherical drops at various humidities

Role of viruses in contamination of swimming pool waters

Comparison of maternal and cord blood CF antibody levers to adenovirus

Bolivian Peace Corps Studies in collaboration with the Research Institute for the Study of Man. Field work and tabulation completed. Report in preparation.

Follow-up Study of Radiated and Nonradiated Ring Worm Cases 5-25 Years After Treatment, in collaboration with New York University Medical Center (post graduate school, Institute of Environmental Medicine). Continuous since 1963.

Preparation of a Manual on Population Epidemiology in collaboration with the Department of Epidemiology, University of North Carolina

Epidemiologic studies of family size and health variables, proposed for North Carolina (Charlotte), Egypt, and Thialand.

Fertility measurement and correlates in North Carolina (Caswell County and Wake County).

Chairman of a working group on UAR to develop -

- Λ. Bood on the Population of UAR
- B. Organize the participation of Carolina Population Center with research agencies in Egypt especially the American University in Cairo and the national family planning program in Egypt.

Preparation of a manual on Community Medicine based on books published in Cairo - Dr. Omran.

- A. Modern Cencepts of Epidemiology
- B. Social and Preventive Medicine

This is a continuous preparation since 1964 in collaboration with members of the Department of Community Medicine, University of Kentucky. Temporarily queiscent because of lack of funds.

North Carolina Dental Health Project

Monk Study - Trappist and Benedictine

Charleston Heart Study

Papago Inbreeding

Reifler MMPI Study

North Carolina Vital Statistics Study

VIII. PUBLICATIONS

Dr. Cassel

Chronic Diseases and Public Health, The Johns Hopkins Press, Baltimore, Md., 1966. Edited by Abraham M. Lilienfeld and Alica Gifford in Collaboration with the Conference of Chronic Disease Training Program Directors of Schools of Public Health. Dr. John Cassel is a member of the editorial committee.

"Physical Illness in Response to Stress," Chapter VII, in <u>The Study of Stress</u>, Sol Levine and Norman Scotch. Aldine Press, Summer 1967.

Letter to Editor: <u>Psychosomatic Medicine</u>, Vol. XXVIII, 1966, No. 3, pp. 283-234.

"Factors Involving Socio-cultural Incongruity and Change Appraisal and Implications for Conceptual Development," submitted for publication to Milbank Memorial Fund Quarterly.

Book Review - Comparability in International Epidemiology: Acheson editor. To be published in American Journal of Public Health.

Dr. Stewart

Inactivation of Antibiotics by Bacterial Enzymes. In <u>Antibiotics</u>, p. 25. Czechoslovak Medical Press, Prague (1966).

Epidemiology of Drug-resistant Infections. In Antimicrobial Agents and Chemotherapy (1966)

Liquid Crystals in Biological Systems. <u>Molecular</u> Crystals 1, 563 (1966)

Dr. Voors

"Data storage, retrieval, and reuse in epidemiological studies," <u>Public Health Reports</u>, 81, 1092-1093 (1966)

Dr. Voors

"Interaction between geographic and age proximity in cervical carcinoma," American Journal of Epidemiology, 85, 2, (1967).

Dr. Slome

Malawi Health Program. Research Report #1.

Dr. Jenkins

With R. H. Rosenman, M. Friedman, et. al., "The prediction of immunity to coronary heart disease," Journal of the American Medical Association, 198: 1159-1162 (December 12, 1966).

With R. H. Rosenman and M. Friedman, "Development of an objective test for the determination of the coronary-prone behavior pattern in employed men," Journal of Chronic Diseases (in press).

"Interpersonal and psychological characteristics in cardiovascular disease: Appraisal and implications for conceptual development; Milbank Memorial Fund Quarterly (in press).

With R. H. Rosenman and M. Friedman, "Replicability of rating the coronary prone behavior pattern by means of a standard interview," Accepted for publication, American Journal of Epidemiology.

With R. H. Rosenman, M. Friedman, et. al., "Clinically unrecognized myocardial infarction in the Western Collaborative Group Study," Accepted for publication, American Journal of Cardiology.

With R. H. Rosenman, M. Friedman, et. al., "Recurring and total myocardial infarction in the Western Collaborative Group Study," Accepted for publication by the American Journal of Cardiology.

Dr. Omran

"Impact of Economic Development on Health Patterns in Egypt," Archives of Environmental Health, Vol. 13, July, 1966.

et. al., "Follow-Up Study of Patients Treated by X-Ray for Tinea Capitis," American Journal of Public Health, Vol. 56, No. 12, December, 1966.

Dr. Kaplan

"Some Sociological Contributions to a Community Action Program," To be published by the Multo-Purpose Training Center, University of North Carolina.

"The Model of Structural Differentiation: An Extension to a Transitional Appalachian Community," International Review of Community Development, 1966, pp. 117-132.

Dr. Kaplan

The Urban Environment and Psychiatric Disorder: A Theoretic Discussion, Completed monograph as editor, ready for publication.

Book Review: <u>Pedro Martinez</u> by Oscar Lewis, Random House, 1964, <u>Social Forces</u>, Vol. 42, p. 131.

Book Review: On Aggression by Konrad Lorenz, Harcourt, Brace, 1966, North Carolina Law Review, Spring, 1966.

Dr. Tyroler

"Community Health Impact of the Space Industry," Archives of Environmental Health, Vol. 14, February, 1967.

IX. SCIENTIFIC PAPERS PRESENTED

Dr. Cassel

"The Epidemiology of Disease," Rutgers Alumni Institute of Summer School of Alcohol Studies, July 19, 1966, New Brunswick, New Jersey.

"Social Factors in Health and Disease," Council for the Advancement of Science Writers, October 31-November 4, 1966, Gatlinburg, Tennessee.

Dr. Stewart

"Structure-activity of B-lactam Antibiotics," September, 1966, Prague, Czechoslovokia.

"Mode of Action of Antibiotics, September", 1966, Bialystok, Poland.

"Epidemiology of Drug-resistant Infections," October, 1966, Philadelphia, Pennsylvania.

"Changing Pattern of Infection"; February, 1967, Augusta, Georgia.

"New Penicillin and Cephalosporins," April, 1967, Chicago, Illinois.

"Mode of Action of Antibiotics," May, 1967, Atlanta, Georgia.

"Hypersensitivity to B-lactam Antibiotics," March, 1967, Oxford, England.

Dr. Slome

"T. B. Program in Malawi," North Carolina T. B. Association Annual Meeting, October, 1966.

Dr. Jenkins

"A Behavior Pattern Predictive of Coronary Heart Disease," American Psychological Association, New York City, New York, September 6, 1966.

"Behavioral Factors in Coronary Heart Disease,"
Johns Hopkins University School of Hygiene and
Public Health, Baltimore, Maryland, March 1, 1967.

Dr. Becker

"Viruses in Foods," Bacteriology Department Seminar, University of North Carolina, February 1, 1967.

Dr. Tyroler

"The Relationship of Morbidity and Mortality to Occupational Stratification; A Prospective Study in a New York Newspaper Publishing Company," International Congress on Occupational Health, September 19-24, 1966, Vienna.

"Familial Aggregation of Coronary Risk Factors in Evans County, Georgia," A paper pesented at the Conference on Cardiovascular Disease Epidemiology, American Heart Association, Chicago, Illinois, February 4-5, 1967.

"Epidemiologic Studies Using a Papago Indian Population Register," a paper prepared for presentation to the Annual Population Association Meeting, Cincinnati, Ohio, April 28-29, 1967.

Dr. Omran

"Scalp Radiation and Mental Disorders," September, 1966, New York City, Epidemiology Seminar, (the colloquim of epidemiologists in New York City Area)

Dr. Kaplan

With Peter Goethals, "A Commentary on the Development, Focus, and Conceptual Problems of Medical Anthropology," at the University of North Carolina. Given at the Southern Anthropological meetings in April, 1967.

"Notes on a Non-Weberian Model of Bureaucracy: The Case of Development Bureaucracy," given at the Annual meeting of the Southern Sociological Society, April, 1967, in Atlanta, Georgia.

XI. NEEDS AND DIRECTION OF DEVELOPMENT OF THE DEPARTMENT

The major needs, remain as in the past, those related to long term funding and to space. The development of a laboratory program without any adequate laboratory space has fast produced a crisis. The unavailability of long term secure funds is continuing to have an eroding effect and prevents the sound establishment and consolidation of a number of important developments.

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

Λ. Appointments: Miss Joan C. Cornoni, Instructor in Epidemiology. (July 1, 1966)

Berton H. Kaplan, Assistant Professor (Sociology) (July 1, 1966)

Abdel R. Omran, Associate Professor of Epidemiology. (November 1, 1966)

A. Wouter Voors, Instructor of Epidemiology, (October 1, 1966)

B. Promotions: H. A. Tyroler, Professor of Epidemiology (January 1, 1967)

Berton H. Kaplan, Associate Professor of Epidemiology, June 1, 1967.

C. Resignations: Robert N. Wilson, resigned August 31, 1966 to become chairman of Mental Health

D. Leaves of Ralph Patrick has been at Harvard School of Absence: Public Health for the past year.