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ANNUAL REPORT

2007 – 2008 ACADEMIC YEAR

DEPARTMENT OF COMMUNITY MEDICINE AND HEALTH CARE

UNIVERSITY OF CONNECTICUT SCHOOL OF MEDICINE

1) Chairman's Summary

The Department of Community Medicine and Health Care is devoted to teaching, research and service related to the public health sciences, population health, and health services administration as well as the medical humanities, health law and ethics. The Department's full-time faculty consists of six Full Professors (Drs. Babor, Chapman, Gregorio, Schensul, Stevens, Tennen), four Associate Professors (Drs. Morse, Walsh, Lazzarini, Van Hoof), and five Assistant Professors (Drs. Burleson, Segal, Swede, Tikoo, and Ungemack). Additional faculty report to the Dean (Dr. Brown, Dr. Wetstone, Ms. Lewis, Mr. Huntington, Ms. Taylor-Huey and Ms. Harrington). During the 2007-2008 academic year, there were also seven part-time faculty (Drs. Higgins-Biddle, Blechner, Wolfe and Jahiel), three of whom were emeritus (Bailit, Sheehan, Affleck). Administrative and support staff include 7 research assistants, 5 research associates, 1 clinical research technician, 1 research analyst, 1 technical analyst, 11 administrative support staff, 10 student employees and 1 clinical research assistant. More than ninety adjunct faculty have clinical and MPH teaching appointments.

As in previous years, the Department's educational responsibilities focused on medical and dental students, residents, the public health workforce and other health care professionals. The Department makes major contributions to the undergraduate medical/dental curriculum in the social and behavioral sciences, epidemiology, biostatistics, health law, ethics, history of medicine**,** community-based education and Student Continuity Practice. Topics in Health Law and Ethics as well as Social Science Topics are presented in the Core Resident Curriculum. Lectures in Health Law and Ethics are also given to medical interns, practicing physicians and other health care providers. The Graduate Program in Public Health offers courses in the core disciplines of public health (epidemiology, biostatistics, social and behavioral sciences, health administration, environmental health) and an array of electives. In addition to its teaching and research programs, the Department continued to participate in its academic partnership agreements with the Connecticut State Department of Public Health and the State Department of Mental Health and Addiction Services. The following are the highlights of the 07-08 academic year:

- Department Self Study and Review: The department participated in an extensive review of its programs, performance and leadership. A report was submitted by the review committee to the Dean's Council with recommendations concerning re-appointment of the Chairman and the return of the MPH program to the department. The recommendations of the Dean's Council have been passed on to Dean Laurencin for final action.

- CTSA: The Department was actively involved in the planning and drafting of the Clinical and Translational Science Award application to the NIH. Dr. Babor was responsible for the Assessment and Evaluation section of the grant, with two other faculty playing an active role in writing this section. Dr. Audrey Chapman was responsible for the section on bioethics.

- New Grants: Drs. Babor, Tennen, and Chapman participated in the successful renewal of the NIAAA Alcohol Research Center. The Department is responsible for managing approximately 20% of the ARC's 5 year $8.8 million budget. Dr. Howard Bailit, Professor Emeritus, was awarded several grants for dental education totaling approximately $500,000. Zita Lazzarini was given an administrative supplement ($140,000) to her NIDA grant to study legal policies related to the prevention of HIV/AIDS. Minakshi Tikoo received a $368,000 contract to evaluate the effectiveness of a large federal program designed to explore new ways to provide treatment for substance abuse.

A significant indicator of the Department's performance during the past year has been the evolution of its research programs in the areas of epidemiology, health promotion, health policy and health services research. The Department's 2008 funding level was approximately $2.5 million (in direct costs). The Department's 26 funding awards included grants and contracts from such organizations as the National Institutes of Health, the World Health Organization and the Donaghue Foundation. The Department's current portfolio (which is described in the Appendix to this report) includes research projects representing a total commitment of approximately $16 million in extramural research funds (over all years of support), of which approximately $3 million are indirect cost contributions. This year there was a slight increase in research funding despite the retirement or departure of several key faculty. Faculty continue to support almost 50% of their salary from extramural funding sources. The Department's research activity is reflected in its record of scholarly publications during the 2007 and 2008 calendar years. (See Faculty Publication List at end of this report.) Departmental faculty authored approximately 59 journal articles, book chapters, editorials, and other scholarly publications.

2) Goals and Objectives of the Department

The Department serves the School of Medicine as the academic home of faculty in the social, behavioral and public health sciences. The mission of the Department is to provide education, research and service, especially in relation to epidemiology, biostatistics, health services, the medical humanities, health law, ethics and history of medicine. The Department's teaching activities and research programs have four interrelated goals:

- To provide educational opportunities for Connecticut residents pursuing careers in public health, medicine and dental medicine;
- To advance knowledge through epidemiological, clinical, ethical, legal, behavioral, and social research;
- To develop and evaluate innovative health-care services and prevention programs; and
- To help health care and public health professionals improve their effectiveness through consultation and continuing education programs.

3) Planned Significant Changes

The Department submitted an application to the World Health Organization for preliminary concept review to become a WHO Collaborating Center. If approved by the Non-communicable Diseases Division, the application will then go through formal review at WHO.

Dr. Stephen Walsh announced his intention to accept a teaching position in the School of Nursing, which will further exacerbate the lack of statistical support in the UConn Health Center and the Department. In part to compensate for this loss, Dr. Babor will ask the Dean for permission to recruit a new biostatistician who can teach biostatistics and support the department's research projects.

4) Faculty Changes

During the 2007-2008 academic year Dr. David Gregorio was promoted to the rank of Full Professor.

5) Ongoing Recruitments and Planned Faculty Expansion

During the 07-08 academic year the department conducted a national search to recruit a new faculty member in the area of the medical humanities in anticipation of Barbara Blechner's retirement. The lead candidate, health lawyer Jason Smith, accepted the position and will join the faculty in the 2008-09 academic year. Dr. Stanton Wolfe joined the department in April, 2008, as an Assistant Professor (50% time) to manage the practicum experience in the MPH program.

6) Special Honors and Distinctions

In June, 2008, the Department was notified that a $500,000 gift had been given by the Diane Heath Beever Trust to set up an endowment fund that will support research activities on the prevention of drug and alcohol addiction.

7) Evaluation of Ongoing Teaching and Research Activities

Undergraduate Medical Education

The Department continues to play a significant role in the undergraduate curriculum of our Medical and Dental Schools. In addition to the Department's role in delivery of Principles of Clinical Medicine (PCM) and Student Continuity Practice (SCP), its faculty participate in many courses relevant to the training of physicians and dentists:

- Organ Systems II - Dr. Walsh delivered 19 hours of content on biostatistics.

- Human Development and Health – Drs. Lazzarini, Tennen, Affleck and Gregorio were section leaders of the course, each devoting approximately 10% time to this effort.

- Dr. Gregorio delivered 10 hours of content on clinical epidemiology, 3 hours of content on the health systems, and coordinated another 16 hours of conferences on analysis of clinical research study design. Those conferences were led by several members of the Department (Drs. Sheehan, Stevens, Swede, Walsh, and Gregorio) as well as UCHC faculty affiliated with the Department (Drs. Gould, Henry, Meyer and Wetstone) and community-based faculty (Drs. Keating, Leach, and O'Brien).

- Dr. Lazzarini delivered 14 hours of content on health law and ethics and coordinated another 10 hours of conferences on health law and ethics. These conferences were led by several members of the Department (Drs. Lazzarini, Blechner, Chapman).

- Dr. Tennen delivered 8 hours of convent on health psychology, Dr. Affleck delivered 15 hours of content on developmental psychology, Dr. Chapman delivered 4 hours of content on medical ethics, Dr. Bailit delivered 2 hours of content on dental health services and Dr. Blechner delivered 2 hours of content on health law.

- Evidence Based Medicine – Department faculty (Drs. Swede, Stevens, Gregorio, Sheehan) regularly served as conference group leaders during each of the homeweek experiences of 3rd year students.

- Dr. Tennen was the section leader of a core methods course within the Master of Science in Clinical Research program. Department faculty (Drs. Walsh, Gregorio, Stevens and Wetstone) participated as lecturers. (18 hours).

- Several members of the department participated in the Mini-Medical School program (2 hours).

- Howard Bailit gave some 12 hours of lectures to dental students and residents.

- Drs. Stevens, Wetstone and Rajan offered a methods of research course to students in the biomedical sciences program.

Evaluation: There is a strong demand for teaching physicians, dentists and other health care providers about public health, epidemiology, biostatistics, research methods and prevention. The Department is well suited and experienced as the home for such curricula. With the departure of Dr. Walsh, there is a pressing need for a new faculty member who can teach biostatistics to medical students and MPH students.

Graduate Education in Public Health

The Graduate Program in Public Health has offered a CEPH-accredited Master of Public Health degree since 1984. The Department had been the home of the graduate program from its inception until December 2005 when, by directive of Dr. Deckers, the administrative, fiscal and academic control of the program was transferred to the University's Center for Public Health and Health Policy. Despite this transfer of administrative authority, the Department continues to provide logistical support, office and classroom space, and an academic home for virtually all of the program's primary faculty.

Evaluation: The decision to move the MPH program outside the Department of Community Medicine has affected the department in several ways. Although the Department continues to share space with the MPH Program, the administrative change has created ambiguities about resource sharing, particularly in relation to space, staffing and budgeting. The Department continues to provide the largest number of full-time faculty who teach in the program, but faculty expectations and commitments to thesis advising and required teaching assignments have become unclear in relation to the distribution of time and effort among funded research, service and medical school teaching. For example, prior to the administrative change, all Community Medicine faculty were expected to teach and advise in the program as their first priority in relation to their CREAM profiles. Despite ambiguity about faculty teaching expectations, most faculty have continued to teach and advise students in the program.

Epidemiology and Biostatistics

The Division has operated in recent years without a full complement of faculty, which is related to changing priorities, retirements and faculty vacancies. Current faculty includes Richard Stevens, David Gregorio, Joseph Burleson, Helen Swede and Joseph Sheehan (40% time).

The Division is committed to address the Health Center's need for epidemiological research and teaching as well as the department's need for biostatistical consultation. Presently, several of our faculty (Drs. Burleson and Sheehan) are involved in collaborative, extramural grant/contract activities providing biostatistical consultation to individual investigators. Their remaining time is largely committed to University teaching and professional services.

The Division faculty increased their participation in MPH teaching with new methodology courses (Data Analysis via Modeling and Principles of Clinical Epidemiology). In addition, Dr. Gregorio participated in the Medical School's 3rd year Home Week Committee. The Division's faculty were regular participants, as lecturers and conference leaders, within the Home Week curriculum. The main research area covered by these faculty is cancer epidemiology.

Evaluation. With the addition of epidemiologist Helen Swede, opportunities have improved for collaborative activities with the UCHC Cancer Center as well as with the Department of Public Health. In the coming year the Division needs to focus on extramural funding for its research activities. There is also a need to clarify relationships with the Department of Medicine, which has created a separate

Division of Public Health and Population Sciences, and with the Statistics Department at Storrs, which is interested in creating teaching and research capabilities in epidemiology and biostatistics. Without better inter-departmental coordination, opportunities for economies of scale, synergistic research collaboration, and shared funding initiatives could be lost.

Behavioral Medicine Program

Behavioral Medicine refers to the study of psychological and behavioral processes involved in the prevention, etiology, diagnosis and treatment of illness and the promotion of health through the integration of biomedical and psychological sciences. Drs. Tennen and Affleck, who lead the program, have a long tradition of research concerning coping with chronic illness and studies of daily life among individuals with chronic pain and other health conditions. More recently they have also directed their attention to studies of daily life among at-risk drinkers in the community and college student drinking. With Dr. Affleck's reduction in time to 40%, the main staffing of this program has been through Dr. Tennen's postdoctoral fellows.

Evaluation. The Department's expertise in Behavioral Medicine is nationally recognized for its specific investigational focus. However, additional expertise is required to develop a broader variety of funded research in the area of behavioral intervention. Despite the considerable potential for education and research in behavioral and preventive medicine, the lack of a coordinated effort and a structure to guide such an effort continues to thwart progress in preventive medicine both in the Department and at UCHC. The addition of a research interventionist in Community Medicine would provide much needed leadership and coordination in this area, especially now that Dr. Affleck is 40% FTE.

Medical Humanities

The medical humanities, health law and ethics, which include the arts, literature, medical ethics, history of medicine and health law, are an important component of the educational and research programs at the School of Medicine. The mission of the Department's Medical Humanities, Health Law and Ethics Division is to advance knowledge about legal and ethical issues that are relevant to health care professionals, patients, and the community, and to develop, facilitate and implement other activities pertaining to the medical humanities. During the 2007-2008 academic year the Division continued a full program of teaching, service and research. With the anticipated retirement of Barbara Blechner, the Division looked forward to the recruitment of a full-time faculty member to replace her.

Regarding research activities of the division, Professor Lazzarini completed work on a 5-year, R01 grant from the National Institute of Drug Abuse (NIDA) to design and implement a method of rapid policy assessment and response (RPAR) in three countries experiencing significant epidemics of HIV and injection drug use. Dr. Lazzarini received a second administrative supplement to her grant this year to expand the number of countries where data are being collected.

The major teaching responsibilities of the Division are in the areas of Health Law and Ethics in the medical/dental school curriculum and in the core area of Public Health Law in the MPH program. Faculty teach electives for medical students and as part of the MPH Program, administer a group of eight health law and policy courses in the MPH program, teach residents throughout the post-graduate system, teach health care providers and workers within the Health Center, provide CME to area hospitals, teach a Health Law Clinic for University of Connecticut Law Students and teach courses in law and ethics to public health workers and other participants in the State

Dr. Lazzarini continued as head of Health Law and Ethics section of Human Development and Health in the medical/dental undergraduate curriculum. She also organizes the faculty who act as Health Law and Ethics Conference leaders. Other teaching activities supported by the Division include: teaching electives

to medical students (Ethics Committee Elective; Spirituality and Medicine, etc.); electives in the public health program (Health and Human Rights, Stem Cells: Biology, Ethics, and Policy); teaching medical students in Immunology Home week; providing educational sessions for residents and fellows (Primary Care, Oncology, Orthopedics); teaching sessions on research ethics (human subjects regulations, research misconduct, conflict of interest) in the Graduate School and in the Masters in Clinical and Translational Research; and providing grand rounds on bioethics issues for departments both at the Health Center and other Connecticut hospitals. In addition, the Division provides a course on Literature and Medicine for faculty and students and organizes the monthly Schwartz Rounds on Compassionate Care.

Evaluation. The Division continues to recruit volunteer faculty to assist in teaching, including lectures in HDH, facilitation of HLE and home week conferences and small groups. The current level of demand for education in law and ethics throughout the medical, dental and public health curricula and in the community cannot be met by less than three full-time faculty. In addition, administrative staff assistance for the Division's various educational, research and service activities remains minimal and restricts the faculty's ability to provide quality service to the Health Center.

Health Policy, Health Services and Translational Research Activities

Most of the Department's health services research and programmatic activities involve substance abuse treatment and prevention. Thomas Babor, PhD., MPH and Bonnie McRee are collaborating on two studies investigating the efficacy of screening and brief interventions with individuals who are at risk users of alcohol, tobacco and other drugs. The *WHO ASSIST* study, funded by NIDA, is linked to a larger World Health Organization initiative and is investigating the effectiveness of brief interventions for illicit drug use as linked to the Alcohol, Smoking and Substance Involvement Screening Test (ASSIST). The *Smoke Screen* project, also funded by NIDA, is evaluating the efficacy of screening and brief intervention for young adults who are smokers of nicotine and cannabis. Dr. Babor and Ms. McRee are currently involved in two large-scale evaluation initiatives and Dr. Minakshi Tikoo has recently been awarded funding for a third. The first, funded by SAMHSA-CSAT through a contract with Johnson, Bassin & Shaw, International, is a national evaluation of CSAT's Screening, Brief Intervention and Referral to Treatment (SBIRT) initiative in seven states. The second is funded by NIAAA. This project includes an evaluation of a World Health Organization alcohol screening and brief intervention implementation project in primary care settings in Brazil and South Africa. The third evaluation effort involves the collection of process and outcome data from a multi-million dollar federal program that awarded grants to 37 states to expand their treatment services for persons with substance use disorders.

Jane A. Ungemack, Dr.P.H., manages seven health services research and evaluation projects in the areas of substance abuse treatment and prevention. She works closely with the State Department of Mental Health and Addiction Services and several federal agencies.

Howard Bailit, Professor Emeritus at 40% time, is Co-Director of a national demonstration program, "Pipeline, Profession, and Practice Community-Based Dental Education," funded by the Robert Wood Johnson Foundation and The California Endowment. The project examines the financial feasibility of new models of dental education. This year Dr. Bailit received several grants to supplement his activities in this area. The funders are the Robert Wood Johnson Foundation, The California Endowment, and the Connecticut Health Foundation.

Finally, the Department's faculty actively participated in UCONN's NIH application for a Clinical Research and Translation Award (CTSA). Community Medicine faculty (Drs. Babor, Ungemack, Tikoo) contributed to two major components of the application (Assessment and Evaluation; Practice-oriented Research Translation), and another faculty (Dr. Chapman) contributed to the bioethics component.

Evaluation. The Department's health services and translational research capabilities are supported entirely by extramural research grants and contracts. Faculty expertise is needed to build a more active research program in the following areas: health economics, health administration, and health policy, not only to complement its own research programs, but also to make the University more competitive on a national level. The whole area of translational research is limited at the Health Center because of the lack of basic technical expertise in multiple fields such as biostatistics, economics, psychometrics, and survey research. The Department has particularly strong working relationships with several state agencies, including DMHAS, DPH and DCF. These Academic Partnership Arrangements facilitate access to large federal funding initiatives and could be expanded if appropriate support and encouragement were provided. The expansion of health services research in the CTSA (Dr. Judith Fifield) should be coordinated with activities in our Department to provide better integration of expertise and shared resources, such as grants management.

Community Health Program

Medical School and MPH Education The Department's Center for International Community Health Studies (CICHC, Dr. Stephen L. Schensul, Director) collaborates with Community-Based Medical Education (Prof. Judy Lewis) to provide second year medical students with contacts, training, and consultative support for their international research. The students take an elective seminar on data analysis and formulation of presentation of research results. The students finalize their international research experience with poster and oral presentations on Medical/Dental Student Research Day.

Research CICHS manages an NIMH research and intervention grant, "Male Sexual Concerns and Prevention of HIV/STDs in India. This research continues the CICHS decade-long commitment to research on sexual risk in Mauritius, Sri Lanka and in India. The grant, which is being implemented in urban slum communities in Bombay, focuses on cultural concepts of male sexual health and the formulation of a culturally based intervention. In May 2005, NIAAA funded a three-year collaborative proposal ($750,000) entitled, "Alcohol and Sexual Risk in Mumbai" (PI Jean J. Schensul, Ph.D., Institute for Community Research, S.L. Schensul, co-PI) This study investigates the question of whether alcohol is a risk factor for HIV transmission among male residents in low income communities in Mumbai.

Evaluation. The CICHS program has expanded its international and domestic research agenda and continues to make valuable contributions to the Department's teaching, research and service programs.

8-9) Departmental Programs and Activities Including Activities Available to Other Health Center Departments

Zita Lazzarini served on the Ethics Oversight Committee for the Connecticut Stem Cell Initiative (ESCRO committee). This committee is responsible for developing ethical guidelines and review processes for approval of all projects funded by the state stem cell initiative at both UCHC and Storrs. Dr. Lazzarini and Dr. Chapman organized the Community Medicine Seminar Series, which brought regionally and nationally known speakers to the Health Center during the academic year. Dr. Lazzarini served as Chairperson of the John Dempsey Hospital Ethics Committee, which provides education, policy review and case consultations services to the entire Health Center community. Dr. Lazzarini chaired the Compensation Appeals Committee which reviews faculty appeals from decisions by the Compensation Executive Committee and makes recommendations to the Dean. Dr. Audrey Chapman served on the Ethics Committee, the Embryonic Stem Cell Research Committee, and the IRB (panel 3). Dr. Howard Tennen served as the Head of the Senior Appointments and Promotions Committee.

10) Outside Professional Activities

Thomas Babor is Associate-Editor-in-Chief and Regional Editor for the Americas for the international journal, Addiction. He is also a member of the Governor's Alcohol and Drug Policy Council. Dr. Babor provides ongoing consultation to the World Health Organization's Expert Advisory Panel on Drug Dependence and Alcohol Problems.

Howard Bailit is a member of the American Dental Association Economic Advisory Group, the Connecticut State Dental Association's Midlevel Provider Committee, the Institute of Medicine panel on the adequacy of the dental workforce, and the Connecticut Health Network Foundation – Research Committee, the National Scientific Advisory Committee for Delta Dental Insurance Company, and the National Advisory Committee of the Oral Health Institute.

Barbara Blechner served on the Expert Genetics Advisory Committee of the Office of the Commissioner of Public Health. Other activities include membership in the Connecticut Coalition to Improve End of Life Care, the UCONN Health Center Ethics Committee, and the Ethics Committee of the Hebrew Home and Hospital, and the Convocation Committee.

Audrey Chapman serves on the Connecticut Stem Cell Ethics and Law committee, the Expert Genomics Advisory Panel of the Department of Public Health, and co-chairs its Ethical, Legal and Social Issues subcommittee. She is also a member of two advisory committees for the University of Connecticut, Storrs: the Human Rights Institute and the Science and Human Rights Committee. Additionally, she is a member of the editorial advisory committees of three journals: Journal of Human Rights, International Journal of Transitional Justice, and Health and Human Rights. Other activities include the Board of the Society of Christian Ethics and membership on a review panel for the Canadian Institutes of Health Research. She also served as a reviewer for the National Research Foundation of South Africa, the Brookings Institution, the University of Pennsylvania Press, the Kennedy Institute Journal of Ethics, and the Journal of Human Rights.

Zita Lazzarini is on the editorial boards of the Journal of Law, Medicine, and Ethics, and Philosophy, Humanities, and Ethics in Medicine.

David Gregorio is a member of the Yale/UCONN Program for Study of Health Care Relationships; CT Department of Public Health Human Investigations Committee (since 2000); School of Medicine Human Development and Health Subject Committee; School of Medicine Clinical Epidemiology Section Coordinator; School of Medicine Home Week Coordinating Committee.

Tim Morse chairs the MPH Admissions Committee, is a member of several committees for the MPH and the Center for Public Health and Health Policy (CPHHP), including the MPH Executive Committee, Signature Program Executive Committee for the CPHHP, the Health Information Core Task Force, and the Planning Committee for a Ph.D. Program in Occupational and Environmental Health. On the state level, he is on the Executive Board for the CT Public Health Association, the leadership group for the CT Council for Occupational Safety and Health, and a member of the CT Dept. of Public health, Bioterrorism Focus Group G (Public Health Education). On the national level, Dr. Morse is on the grant review panel and site visit teams for Education and Resource Centers for The National Institute for Occupational Safety and Health (NIOSH). Dr. Morse is on the Editorial Board of New Solutions: A Journal of Environmental and Occupational Health Policy. He is on the Advisory Board of the Occupational Health Internship Program, and is a full member of the Human Factors and Ergonomics Society.

Stephen Schensul is a standing member of the NIH Study Section: Health Services Organization and Delivery (HSOD).

Richard Stevens serves on the Dental Council at UCHC. He is a member of the Editorial Review Board, Environmental Health Perspectives, Member, Medical Advisory Board, Young Survival Coalition; Member, Human Investigation Committee, DPH, State of Connecticut; Member, Preventive Health and Human Services Block Grant Advisory Committee, DPH, State of Connecticut; Member, Preventive Health and Human Services Block Grant Advisory Committee, DPH; member NIH Study section.

Howard Tennen is a member of the Standard Hearing Panel of the American Psychological Association's (APA) Board of Directors, and is a member of the APA Division of Health Psychology Publications Committee and its Research Program Committee. He serves on the Donaghue Foundation Clinical and Community Health Issues study section. Dr. Tennen is Editor of the Journal of Personality, and serves on the editorial boards of Journal of Social and Clinical Psychology, Journal of Personality Assessment, Journal of Personality and Social Psychology, Journal of Traumatic Stress, Social Psychology Compass and Journal of Positive Psychology.

Jane Ungemack is a member of the Connecticut Alcohol and Drug Policy Council (Prevention Subcommittee) and the State Advisory Council to the Department of Children and Families. She also serves as a member of the Advisory Committee for the Graduate Program in Public Health.

Stephen Walsh is the director of the Center for Biostatistics in the School of Medicine. He is head of the Biostatistics Core of the University of Connecticut General Clinical Research Center and serves on the center's Executive and Scientific Advisory Committees.

Faculty Publications (2007-2008)

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Schensul, S. L., Hawkes, S., Saggurti, N., Verma, R. K., Navekar. S. S., Nastasi, B. K., Burleson, J. A**.,** Risbud, A. (2007). Sexually transmitted infections in men in Mumbai slum communities: the relationship of prevalence to risk behavior. Sexually Transmitted Diseases, 34, 444-450.

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