

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD
Before Administrative Judges:
James P. Gleason, Chairman
Dr. Oscar H. Paris
Frederick J. Shon

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OFFICE OF SECRETARY
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In the Matter of

CONSOLIDATED EDISON COMPANY OF
NEW YORK (Indian Point Unit 2)

POWER AUTHORITY OF THE STATE OF
NEW YORK (Indian Point Unit 3)

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Docket Nos.

50-247-SP

50-286-SP

January 31, 1983

DIRECT TESTIMONY

Of

DR. H. JACK GEIGER

And

DR. VICTOR W. SIDEL

On Behalf Of

FRIENDS OF THE EARTH, INC.

And

THE NEW YORK CITY AUDUBON SOCIETY

DS03

This testimony has been prepared on behalf of Friends of the Earth and the New York City Audubon Society by Drs. H. Jack Geiger and Victor W. Sidel. Dr. Geiger, along with his M.D. degree from Case-Western Reserve School of Medicine, has an M.S. in Epidemiology from the Harvard School of Public Health. He is the Arthur C. Logan Professor of Community Health at the City College of the City University of New York and Chairman of the Department of Community Health and Social Medicine in the School of Biomedical Education at City College. Dr. Sidel is a graduate of Harvard Medical School and has had additional training in epidemiology and biostatistics at the Harvard School of Public Health and the London School of Hygiene and Tropical Medicine. He has been a member of the Commission on Radiation Protection of the Commonwealth of Massachusetts. He is the Chairperson of the Department of Social Medicine at Montefiore Medical Center and Professor of Community Health at the Albert Einstein College of Medicine. Drs. Geiger and Sidel are co-authors of a major study of the problems of medical care organization and delivery in circumstances of widespread radioactive contamination (following a thermonuclear weapon detonation) and have published widely on the health and social effects associated with nuclear weapons. Both Dr. Geiger and Dr. Sidel are members of the National Board of Directors and of the National Advisory Board of Physicians for Social Responsibility. Copies of their c.v.'s are attached.

plants). It is our professional view that the proximity of the Indian Point reactors to areas of such high population number and concentration, given a finite possibility of such an event and the unknowability of its probability and character, makes adequate preparation to protect the public health impossible.

(1) Impossibility of determining the population at risk of significant radiation exposure in the case of an actual event.

Computer modelling under stated assumptions (type and magnitude of release, wind direction and velocity, plume characteristics, etc.) have been used to generate "at risk" figures in a wide variety of hypothetical scenarios. But in most actual events the data will simply not be rapidly available to determine which scenario is in fact being enacted, and therefore which population is at risk and which is relatively safe and unexposed. Accurate delimitation of the problem--or valid reassurance to others--will therefore be impossible. Further, computer modelling is necessarily based on idealized assumptions (e.g., constant wind behavior and symmetrical plumes and wedges) which are unlikely to be realized in actuality; nor will it be possible rapidly to determine the degree of variation from prior assumptions.

Thus this case varies radically from the case of

case of a major release of radioactivity, as 654,925 people if the wind at Indian Point is blowing toward the south-southeast; as 126,175 people if the wind is blowing toward the southeast; as 1,305,500 people if the wind is blowing toward the south; as 244,340 people if the wind is blowing toward the south-southwest; and as 48,610 people if the wind is blowing toward the southwest. In fact, for purposes of this analysis, it does not matter in which of the above directions the wind is blowing. In each case, it will be impossible effectively to perform triage on the population at risk. That is, within that population, there will be no realistic means of identifying and sorting out those who have had minimal radiation exposure and will recover without any medical intervention, those who have had moderate radiation exposure and will survive at given levels of medical intervention, and those who have suffered lethal radiation doses and will die whether or not medical intervention is carried out.

Unless the entire population had been wearing dosimeters, there will be no way for any individual--or any physician or health worker examining that individual--to determine either the whole-body dose or the bone-marrow dose that individual has received. Determinations will initially have to be made on the basis of symptoms--but the early symptoms of mild, moderate and lethal radiation exposures are identical: nausea, vomiting and diarrhea. (Those with

population at risk seeks medical care, the medical care system (hospitals, health centers, clinics, and the private offices of physicians and other health workers) would, under the best of circumstances, be overwhelmed. This would be true even in the areas with the highest concentrations of such resources, for they are also the areas of highest population concentrations. In major metropolitan areas like New York City, medical disaster plans have been drawn up in an attempt to rationalize the response to major disasters. But these assume that most of the sources of medical care are themselves safe and unaffected by the risk. They assume that hospital staffs (like other essential workers such as bus drivers, police, fire department or power plant personnel) will remain at work despite perceived threats to their own safety or that of their immediate families. These assumptions would not hold for a major radiological emergency in which the metropolitan area itself was threatened--or perceived as being threatened. To our knowledge, no realistic medical disaster response plan has been drawn up for medical care sources in New York City or its surrounding suburban areas to meet a threat of this type.

Even if we assumed that such a disaster plan were in place and were operative, and that effective triage were possible, the numbers of people suffering exposures sufficient to require active medical care would overwhelm the resources of the medical care system. Furthermore, for the

rationally are unjustified. Even if such assumptions are made, the probability exists that the system will be overwhelmed by the numbers of people seeking care.

SEPTEMBER 1982

CURRICULUM VITAE

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ARTHUR C. LOGAN PROFESSOR OF COMMUNITY MEDICINE

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Arthur C. Logan Professor of Community Medicine and Director, Program in Health Medicine and Society, School of Biomedical Education, City College of New York.

American Public Health Association Medical Care Section Council, APHA Committee on Health Services Research; APHA Committee on Public Participation in Health Services; APHA Task Force on Latin American Health.

Institute of Medicine, National Academy of Sciences, Steering Committee, Study on Integration of Federally Funded Health Services.

Institute of Medicine, National Academy of Sciences, Planning Committee, Conference on "Behavioral Perspectives on Health Risks Among the Disadvantaged".

Institute of Medicine, National Academy of Sciences, Planning Committee, Conference on "Community-Oriented Primary Care".

New York State Health Advisory Council, Task Force on Primary Care, Albany, New York.

Health Systems Agency of New York City: Ambulatory and Acute Care Task Force.

New York Academy of Medicine, Committee on Medicine in Society, New York, New York.

American College of Preventive Medicine, Committee on International Health.

National Association of Community Health Centers, Committee on Health Policy, Washington, D.C.

National Medical Fellowships, Board of Trustees and Chairman, Program Review Committee, New York, New York

Physicians for Social Responsibility, Board of Directors, National Advisory Board, Chairperson, National Policy Committee.

International Physicians for the Prevention of Nuclear War, Board of Directors, Boston, Massachusetts.

National Self-Help Clearing House, Board of Advisors, New York, New York.

National Coalition to Save Public General Hospitals, Executive Committee, Chicago, Illinois.

Council for the Advancement of Science Writing, Board of Directors, Evanston, Illinois.

Harlem Hospital, Board of Advisors, Physician's Assistant Training Program, New York.

Lecturer on Community Medicine, Department of Sociomedical Sciences, Boston University School of Medicine, Boston, Massachusetts.

Associate, Columbia University Seminar on Social and Preventive Medicine, New York.

Consultant on Curriculum, Graduate Program in Health Policy and Management, and Cooperative Health Improvement Program, Harvard School of Public Health, Boston, Massachusetts.

American Medical Student Association, Professional Advisory Committee, Health Watch Documentation Project, Chantilly, Virginia.

PERSONAL DATA

Date of Birth: November 11, 1925
New York, New York

EDUCATION

1941 - 43 University of Wisconsin, Liberal Arts.
1947 - 50 University of Chicago, Division of Biological Sciences.
1954 - 58 Western Reserve University School of Medicine, Cleveland, Ohio
M.D. degree, June 1958.
1959 - 60 Harvard School of Public Health, Boston, Massachusetts,
M. Sci. Hvg. (Epidemiology) degree, June 1960.

CLINICAL TRAINING

1958 - 59 Intern, II and IV (Harvard) Medical Service, Boston City Hospital,
Boston, Massachusetts.
1962 - 63 Assistant Resident in Medicine, II and IV (Harvard) Medical Service,
Boston City Hospital, Boston, Massachusetts.
1963 - 64 Senior Resident in Medicine, II and IV (Harvard) Medical Service,
Boston City Hospital, Boston, Massachusetts, and Research Fellow,
Thorndike and Channing Laboratories, Harvard Medical School.
1964 - 65 Clinical Assistant in Medicine, II and IV (Harvard) Medical Service,
Boston City Hospital, Boston, Massachusetts.
1965 - 66 Clinical Associate in Medicine, II and IV (Harvard) Medical Service,
Boston City Hospital, Boston, Massachusetts.

- 1959 - 61 Research Fellow, Department of Preventive Medicine, Harvard Medical School; Joint appointment as Postdoctoral Research Fellow, Joint Training Program in Social Science and Medicine, Department of Social Relations, Harvard University.
- 1961 - 62 Instructor in Preventive Medicine, Harvard Medical School; Clinical Assistant in Medicine, Harvard Medical Service, Boston City Hospital; Chief Consultant, NIMH-Harvard School of Public Health Cross-Cultural Survey of Social Factors in the Etiology of Disease.
- 1964 - 65 Assistant Professor of Public Health, Harvard School of Public Health; Clinical Assistant in Medicine, Harvard Medical Service, Boston City Hospital.
- 1965 - 66 Associate Professor of Preventive Medicine, Tufts University School of Medicine, Boston, Massachusetts; Clinical Associate in Medicine, Harvard Medical Service, Boston City Hospital.
- 1965 - 71 Project Co-Director (1965-68) and Project Director (1968-71), Tufts Comprehensive Community Health Action Program; Project Director (1965-71) Tufts Delta-Mississippi Health Center; Project Co-Director (1965-69) and Project Director (1969-71), Tufts Columbia Point-Boston Health Center.
- 1966 - 69 Professor of Preventive Medicine and Director, Division of Community Health, Department of Preventive Medicine, Tufts University School of Medicine.
- 1969 - 71 Professor and Chairman, Department of Community Health and Social Medicine, Tufts University School of Medicine and Chairman, Ambulatory Care, Tufts-New England Medical Center.
- 1971 - 73 Professor and Chairman, Department of Community Medicine, School of Medicine, State University of New York at Stony Brook, New York; (on leave, 1972-73); Lecturer on Medicine, Harvard Medical School.
- 1972 - 73 Visiting Professor of Medicine, Harvard Medical School, Boston, Massachusetts.
- 1973 - 77 Professor of Community Medicine, School of Medicine, State University of New York at Stony Brook, New York; resumed Departmental Chairmanship, 1976.
- 1978 - Arthur C. Logan Professor of Community Medicine and Director, Program in Health, Medicine and Society, School of Biomedical Education, The City College of New York, City University of New York.

PROFESSIONAL MEMBERSHIPS

American Public Health Association (Fellow)
American College of Preventive Medicine
American Association for the Advancement of Science (Fellow)
International Epidemiological Association
Association of Teachers of Preventive Medicine
Scientists' Institute for Public Information (Fellow)
Association for the Behavioral Sciences and Medical Education
New York Academy of Medicine (Fellow)

ACADEMIC AWARDS AND HONORS

Distinguished Public Service Award, National Association of Community Health Centers, for "outstanding contributions in the private and public sectors which have fostered support for community health delivery programs", 1981.

Commencement speaker, Boston University School of Medicine, Boston, Massachusetts, May 17, 1981.

National Health Achievement Award in Community Medicine, 50th Anniversary Distinguished Service Award of the Blue Cross and Blue Shield Associations, for "developing a new concept of community health care as an effective instrument of community change", 1979.

American Public Health Association, first annual APHA-Rosenhaus Foundation Award for Excellence, for "exceptionally meritorious achievement in improving the health of the American people", 1973.

Distinguished Service Award, Mississippi Association for Community Health for the Poor, 1973.

Milbank Faculty Fellowship in Social Medicine, 1966-71.

Commencement speaker, Wayne State University School of Medicine, Detroit, Michigan, May 18, 1970.

Postdoctoral Research Fellowship, National Institute of Mental Health, for studies in the Social Sciences in Medicine Program, Department of Social Sciences, Harvard University, 1959-61.

Rockefeller Foundation Training Scholarship for studies and research in social medicine, Department of Social, Family & Preventive Medicine; University of Natal Medical School, Durban, Union of South Africa, with Professor Sidney Kark, 1957.

Research Fellowship, Marine Biological Laboratory, Woods Hole, Massachusetts;
(Summers) 1955, 1956.

Kettering Foundation Fellowship, Western Reserve University School of Medicine,
1954-58.

Honors Scholarship, Biological Sciences, University of Chicago, 1948-50.

(Partial Listing)

- 1980 Seminar Co-Director, Residency Program in Social Medicine, Montefiore Hospital and Medical Center, Bronx, New York, on Training for Community-Oriented Primary Care.
- 1980 Consultant, Department of Social Medicine, Hadassah-Hebrew University School of Medicine, Jerusalem, Israel.
- 1980 Faculty Leader, American Medical Student Association Study-Tour of Health Care, People's Republic of China.
- 1980 Ad Hoc Advisory Committee to the Secretary of Health, Education and Welfare on the Structure and Mission of the Department.
- 1978 - 80 Governing Council, American Public Health Association.
- 1978 - 80 Consultant, Medical Care Quality and Organization, Division of HMO Qualification and Compliance, Office of Quality Standards, Department of Health, Education and Welfare, Rockville, Maryland.
- 1978 - 80 Consultant, Policy Research on Medically Underserved Areas, National Center for Health Services Research, Department of Health, Education and Welfare, Hyattsville, Maryland.
- 1978 - 80 Consultant, Agency for International Development/University of North Carolina School of Public Health, on Practical Training in Health Education (Cameroons).
- 1978 Faculty Leader, First American Medical Student Association Study-Tour of Health Care, People's Republic of China.
- 1975 - 78 Editorial Board, American Journal of Public Health.
- 1976 - 78 Consultant to:
National Association of Community Health Centers, Washington, D.C.

Pan American Health Organization, on health team development in community health centers, Washington, D.C.

U.S.-China Physicians Friendship Association, Washington, D.C.
- 1976 - 77 Committee on Nominations, American Association for the Advancement of Science, Washington, D.C.
- 1974 - 77 Governing Council, American Public Health Association.
- 1975 - 76 Member, Task Force on Alternatives in Health and National Development, Dag Hammarskjold Foundation, Uppsala, Sweden.
- 1974 - 79 Board of Directors, Scientists' Institute for Public Information, New York, New York.
- 1974 Member, Cuban-American Health Exchange Study-Tour of Health Care in Cuba.

- 1973 Member, China Medical Association-Ministry of Health Invitational Study-Tour of Health Care in the People's Republic of China.
- 1972 - 75 Regional Advisory Group, Nassau-Suffolk Regional Medical Program-CHP, Hapauge, Long Island, New York.
- 1971 - 73 Consultant to:
- Milbank Memorial Fund, New York, on new programs, publications and editorial policy.
 - Council on Environmental Quality, Washington, D.C., on rural health services
 - Maternal and Child Health/Family Planning Research and Training Center, Meharry Medical College, Nashville, Tennessee.
 - American Heart Association, New York, Task Force on Responsibilities in Disadvantaged Areas.
 - Institute for the Study of Health and Society, Washington, D.C. on educational programs and materials.
 - Social Policy (a journal), New York, on editorial policy.
 - University of Tennessee Medical School, Memphis, on teaching and curriculum revision in preventive and community medicine.
 - American Association of Teachers of Preventive Medicine, Committee on Social and Behavioral Sciences.
 - Editorial Board, Environment.
- 1969 - 71 The Rockefeller Foundation, New York: Member, Task Force on Rural Poverty.
- American Psychiatric Association, Washington, D.C., Member, Task Force on Research Aspects of Community Mental Health Centers.
 - White House Conference on Youth, Planning Commission, Member, Task Force on Poverty.
 - White House Conference on Food, Nutrition and Health, Universities Panel.
 - Center for the Biology of Natural Systems, Washington University, St. Louis, Consultant on rural environmental health.
- 1967 - 69 Special Advisory Committee on Health and Poverty to the Secretary of Health, Education and Welfare, Washington, D.C.
- Committee on Health Information Systems, M.I.T.-Harvard Joint Center for Urban Studies, Boston, Massachusetts.
 - Board of Directors, National Citizens Commission of Inquiry into Health Services for Americans, Washington, D.C.

CONSULTANTSHIPS, COMMISSIONS AND RELATED ACTIVITIES

Travel and study of the health care system in: Union of South Africa and Swaziland (1957); Puerto Rico (studies with Dr. John Grant) (1960); Nigeria (1963); Uganda, Tunisia (1964); Chile (Invitation of the Ministry of Health), Argentina (1968); Jamaica (1970); People's Republic of China (Invitation of the Chinese Medical Association, PRC) (1973, 1978, 1980); Cuba (Invitation of the Ministry of Health) (1974); Iran (1975); Republic of the Cameroons (1979); Israel (1980).

(Partial Listing)

- Vice-Chairman, Congress of Racial Equality (CORE), Madison, Wisconsin, 1943.
- Organizer, National Maritime Union-CIO, National Communications Association-CIO, 1944-47.
- Civil Liberties Chairman, American Veterans Committee, Chicago, 1947-50; member, Provident Medical Associates Committee on Discrimination in Medical Education, 1947-50; Vice-Chairman, Congress of Racial Equality (CORE), Chicago, 1948-50; Chicago-area Chairman, Committee to End Discrimination in the Armed Forces, 1950.
- Executive Committee, New York Local, American Newspaper Guild-CIO, 1952-54.
- Member, Special Committee on Science in the Promotion of Human Welfare, American Association for the Advancement of Science, 1957-62.
- Founding Member, Physicians for Social Responsibility, Boston, Massachusetts, 1961.
- Founding Member, Medical Committee for Human Rights (MCHR), 1964, Field Coordinator, MCHR Mississippi Program (August 1964); Member, National Program Committee (1964-67); National Program Chairman (1965).
- Consultant on Health and Human Services Policy to:
Student Non-Violent Coordinating Committee, 1964;
Southern Christian Leadership Conference, 1965-68;
Health Service Planner, Selma-to-Montgomery march, 1965;
Student Health Organization, 1967-68;
National Urban League, 1969-70.
- Chairman, Health Committee, the Delta Ministry of the National Council of Churches, New York and Greenville, Mississippi, 1964-66; Member, Commission on the Delta Ministry, National Council of Churches, New York, 1965-68.
- Board of Governors, Institute of Current World Affairs, New York, New York, 1968-75;
Chairman of the Board, 1970-71.
- Steering Committee, Emergency Committee to Save Chilean Health Workers, New York, 1974-79.
- Founding Member, International Physicians for the Prevention of Nuclear War, Boston, Massachusetts, 1980.

OTHER POSITIONS

- 1941 - 43 Reporter, Madison Capitol-Times, Madison, Wisconsin.
- 1947 - 50 News Editor, Chicago Bureau, International News Service
- 1950 - 54 Science Editor, International News Service, New York, (now United Press International); contributor to New York Times Magazine, Harper's Saturday Review and other publications; special writing projects for American Cancer Society, American Chemical Society, Sloan-Kettering Institute for Cancer Research, Lasker Foundation, etc.
- 1943 - 47 Ensign, Lieut. J.G. (Radar-Radio), U.S. Merchant Marine.

PUBLICATIONS

(A) Books:

The Training of Good Physicians: Critical Factors in Career Choices, Lyden, Fremont; Geiger, H. Jack and Peterson, Osler L.; Harvard University Press, Cambridge, MA, 1968 (A Commonwealth Fund Book).

(B) Journal Articles, Monographs and Book Chapters:

- (1) "The Social Responsibility of the Physician", Scientific Monthly, 85, 2; August 1957.
- (2) "Social Aspects of Science", Report of the Interim Committee on Social Aspects of Science, American Association for the Advancement of Science, Science, 125, 143; 1957.
- (3) "Family Health in Three Cultures: Implications for Medical Education", a thesis submitted in partial fulfillment of the requirements for the M.D. degree, Western Reserve University; mimeo., 142 pages, Library of Medicine, Western Reserve University; 1958.
- (4) "Zulu Health and Culture Change", monograph, 42 pages, Seminar on Health and Illness in Cross-Cultural Perspective, Harvard School of Public Health, April 1960.
- (5) "Science and Human Welfare", Report of the AAAS Committee on Social Aspects of Science, Science, 132, 68; 1960; with Commoner, Barry; Mead, Margaret; et. al.
- (6) "Medicine and the Social Contract: Summary and Prospect", Chapter II in Medical Education and Medical Care, published as a volume by the Association of American Medical Colleges and as Part 2, Journal of Medical Education, Vol. 36, 12; 1961.
- (7) "Science and Human Survival", with members of the AAAS Committee on Science in the Promotion of Human Welfare, Science, 134, 2080; 1961.
- (8) "The Medical Consequences of Thermonuclear War: I. Introduction (with Sidel, V.; Lown, B.; and Nathan, D.); II. The Physician's Role in the Post-Attack Period (with Sidel, V.; and Lown, B.)", New England Journal of Medicine, 266: 1137-1144; 1962.
- (9) "Appraisal of Medical Students' Abilities as Related to Training and Careers after Graduation", Peterson, O.L.; Lyden, F.; Geiger, H.J.; and Colton, T.; New England Journal of Medicine, 269: 1174; Nov. 1963.
- (10) "The Epidemiology of Rheumatoid Arthritis: A Review with Special Attention to Social Factors"; with Scotch, N.; Journal of Chronic Diseases, Vol. 15, pp. 1036-1067; 1962.
- (11) "The Epidemiology of Essential Hypertension: A Review with Special Attention to Psychologic and Sociocultural Factors: I. Biologic Mechanisms and Descriptive Epidemiology (with Scotch, N.)", Journal of Chronic Diseases, Vol. 16, pp. 1151-1182; 1963.

- (12) "The Epidemiology of Essential Hypertension: A Review with Special Attention to Psychologic and Sociocultural Factors: II. Psychologic and Sociocultural Factors in Etiology"; with Scotch, N.; Journal of Chronic Diseases, Vol. 16, pp. 1183-1212; 1963.
- (13) "An Index of Symptom and Disease in Zulu Culture Change", with Scotch, N.; Human Organization, Vol. 22, No. 4, pp. 304-311; Winter 1963-64.
- (14) "Report on the Boston City Hospital and Boston Health Department", with Hamlin, R.H.; and Kisch, A.; Offset Monograph, 44 pages, Harvard School of Public Health, March 1965.
- (15) "Administrative Reorganization of Municipal Health Services - The Boston Experience", with Hamlin, R.H.; New England Journal of Medicine, 273: 26-29, 1 July 1965.
- (16) "Tufts Comprehensive Community Health Action Program: A Rural Southern and Northern Urban Comprehensive Teaching Health Center", Proposal to the Office of Economic Opportunity, February 1965; mimeo., Department of Preventive Medicine, Tufts University School of Medicine.
- (17) "Challenge to the Professions", Proceedings of the Symposium on Catastrophic Illness, October 6-7, 1966, Cancer Care, Inc. of the National Cancer Foundation, New York.
- (18) "Tufts in Mississippi - The Delta Health Center", Tufts Medical Alumni Bulletin, Vol. 3, Nov. 1966, pp. 3-9.
- (19) "Of the Poor, By the Poor, Or for the Poor: The Mental Health Implications of Social Control of Poverty Programs", Psychiatric Research Reports (21), American Psychiatric Association, April 1967, pp. 55-65; Reprinted in The Health Gap: Medical Services and the Poor, R.L. Kane, editor; New York, Springer Publishing Company, 1976, pp. 86-98.
- (20) "The Neighborhood Health Center: Education of the Faculty in Preventive Medicine", Archives of Environmental Health, 14, 6:912-916, June 1967.
- (21) "Health and Social Change: The Urban Crisis", The Lowell Lecture, Tufts-New England Medical Center, Feb. 13, 1968; Reprinted in Metropolis in Crisis: Social and Political Perspectives, 2nd edition, J.K. Hadden, editor; F.E. Peacock Publishers, 1971, pp. 241-251.
- (22) "Commentary on D.K. Zschock, 'Economic Aspects of Health Needs in Columbia' in Social Sciences and Health Planning", The Milbank Memorial Fund Quarterly, Vol. XLVI, No. 2, Part 2, pp. 235-238, April 1968.
- (23) "Medicine Must Help Cure Ghetto's Ills", editorial, Medical World News, May 10, 1968.
- (24) "Health Center in Mississippi", Hospital Practice, Vol. 4, No. 2, pp. 68-81, Feb. 1969.

- (25) "Impact of Ambulatory Health Care Services on the Demand for Hospital Beds, A Study of the Tufts Neighborhood Health Center", with Bellin, Seymour, Ph.D. and Gibson, C.D., M.D., New England Journal of Medicine; 280: 803-812, April 10, 1969; reprinted as chapter in Neighborhood Health Centers, edited by Robert M. Hollister, Bernard M. Kramer, and Seymour Bellin; Lexington, Massachusetts: Lexington Books, 1974, pp. 133-143.
- (26) "Community Control - Or Community Conflict?", chapter in Neighborhood Health Centers, edited by Robert M. Hollister, Bernard M. Kramer, and Seymour S. Bellin; Lexington, Massachusetts: Lexington Books, 1974.
- (27) "The Endlessly Revolving Door", in "The Sick Poor", American Journal of Nursing, Vol. 69, No. 11, pp. 2436-2445, November 1969.
- (28) "Actual Public Acceptances of the Neighborhood Health Center by the Urban Poor", with Bellin, S., Journal of the American Medical Association, Vol. 214, No. 12, pp. 2147-2153; December 21, 1970; reprinted as chapter in Neighborhood Health Centers, edited by Robert M. Hollister, Bernard M. Kramer, and Seymour S. Bellin; Lexington, Massachusetts: Lexington Books, 1974.
- (29) "Trends in Health Care Delivery Systems", with Cohen, R.; Inquiry, Vol. VIII, No. 1, pp. 32-36; March 1971.
- (30) "Hidden Professional Roles: The Physician as Reactionary, Reformer, Revolutionary", Social Policy, Vol. 1, No. 6, pp. 24-33; March-April 1971.
- (31) "The Impact of a Neighborhood Health Center on Patients' Behavior and Attitudes Relating to Health Care", with Bellin, S.; Medical Care, Vol. 10, No. 3, pp. 224-239; May-June 1972; reprinted in The Health Gap: Medical Services and the Poor, R.L. Kane, editor; New York: Springer Publishing Company, 1976, pp. 178-201; also reprinted in Neighborhood Health Centers, edited by Robert M. Hollister, Bernard M. Kramer, and Seymour S. Bellin; Lexington, Massachusetts: Lexington Books, 1974.
- (32) "The New Physician", chapter in The New Professionals, edited by Ronald Gross and Paul Osterman; Simon and Schuster, 1972, pp. 95-116.
- (33) "A Health Center in Mississippi: A Case Study in Social Medicine", chapter in Medicine in a Changing Society, L. Corey, S.E. Saltman, M.F. Epstein, editors; St. Louis: C.V. Mosby Co., 1972, pp. 157-168.
- (34) "Slavery, 100 Years Later: and 'Medical Services: Digging Wells and Building Privies'", Statement before Subcommittee on Employment, Manpower and Poverty, Committee on Labor and Public Welfare, U.S. Senate, 91st Congress, 1969; reprinted in The Practice of Social Intervention: Roles, Goals and Strategies, F.M. Loewenberg, and R. Dolgoff, editors; F.E. Peacock Publishers, 1972, pp. 46-51 and pp. 457-464.
- (35) "Educational Implications in Changing Methods of Health Care Delivery", American Journal of Diseases of Children, Vol. 127, No. 4, April 1974.
- (36) "Health Services in the Concentration Camp: Prospects for the Inner City in the 1970's", chapter in The Urban Scene in the Seventies, J.F. Blumstein and E.L. Martin, editors; Nashville: Vanderbilt University Press, 1974, pp. 145-173.

PUBLICATIONS (continued)

- (37) "The Causes of Dehumanization in Health Care and Prospects for Humanization", chapter in Humanizing Health Care, J. Howard and A. Strauss, editors; New York: John Wiley & Sons, 1975, pp. 11-36.
- (38) "The Illusion of Change", Social Policy, Vol. 6, No. 3, November-December 1975, pp. 30-36.
- (39) "Health Care in the People's Republic of China: Implications for the United States", chapter 45 in Medicine in Chinese Cultures: Comparative Studies of Health Care in Chinese and Other Societies, edited by A. Kleinman, P. Kunstadter, E.R. Alexander and J.L. Gale; Washington, D.C.: The John E. Fogarty International Center for Advanced Study in the Health Sciences, U.S. Department of Health, Education and Welfare, 1975; DHEW Publication No. (NIH) - 75-653, pp. 713-725.
- (40) "Introduction", to Caring and Curing: Community Participation in Health Services, by E.J. Salber, New York: Prodist, 1975, pp. 1-3.
- (41) "The Tasks of Community Medicine", The Sciences, New York Academy of Sciences, Vol. 13, No. 3, May-June 1976, pp. 23-26.
- (42) "Primary Care: Medical, Social and Political Processes", in Primary Care in Industrialized Nations, Annals of New York Academy of Sciences, Vol. 310, 1978, pp. 37-39.
- (43) "Medical School Admissions: The Case for a Quota", with Sidel, V.W.; Hastings Center Report, Institute of Society, Ethics and the Life Sciences, Vol. 8, No. 5, October 1978, pp. 18-20.
- (44) "China: The Search for Questions", with Sidel, V.W., The New Physicians, Vol. 28, No. 1, January 1979, pp. 54-55.
- (45) "Preparing Primary Care Physicians for Practice in Underserved Inner City Areas", Public Health Reports, Vol. 95, No. 1, January-February 1980, pp. 32-37.
- (46) "Addressing Apocalypse Now: The Effects of Nuclear Warfare as a Public Health Concern", American Journal of Public Health, Vol. 70, No. 9, pp. 958-961, September 1980.
- (47) "Health Policy, Social Policy and The Health of the Aging", Generations, Journal of the Western Gerontological Society, Spring 1980; reprinted in The Nation's Health, edited by Philip R. Lee, Nancy Brown and Ida Reed; San Francisco: Boyd and Fraser Publishing Co.; 1981, pp. 389-395.
- (48) "Small Futures, Sick Futures, Short Futures: Inequity and Irrelevance in U.S. Health Care Strategies", Chapter 5 in Working for a Healthier America, edited by Walter J. McNerny; Cambridge, Massachusetts: Ballinger Publishing Co., 1980, pp. 157-167.

- (49) "Agenda for the 80's: A Call to Action", The New Physicians, Vol. 30, No. 5, May 1981, pp. 22-26.
- (50) "The Illusion of Survival", Bulletin of the Atomic Scientists, Vol. 37, No. 6, June-July 1981, pp. 16-20.
- (51) "Affirmative Action in Medical School Admission", chapter in Troubling Problems in Medical Ethics: The Third Volume in a Series on Ethics, Humanism and Medicine, edited by Marc D. Basson, Rachel E. Lipson, Doreen L. Gaynos; New York: Allen R. Less, Inc., 1981.
- (52) "Prognosis: The Illusion of Survival", chapter in The Final Epidemic: Physicians and Scientists on Nuclear War, edited by Ruth Adams and Susan Cullen; Chicago: Educational Foundation for Nuclear Science, Bulletin of the Atomic Scientists, 1981.
- (53) "Why Survival Plans Are Meaningless", Hastings Center Report, Vol. 12, No. 2, April 1982, pp. 17-19.
- (54) "Witness for a Nuclear Freeze", in Freeze! How You Can Help Prevent Nuclear War, edited by Senators Edward M. Kennedy and Mark O. Hatfield; New York: Bantam Books, April 1982, pp. 215-216.
- (55) "Medical Effects of a Nuclear Attack", chapter in The Nuclear Almanac, Cambridge, Massachusetts: Addison-Wesley Company, (in press).
- (56) "Community Health Centers: Health Care as an Instrument of Social Change", chapter in Liberal Reforms in Medicine, edited by Ruth Sidel and Victor Sidel; New York: Pantheon Books, (in press).
- (57) "Medical Effects of a Nuclear Attack: Cities in the U.S.A.", chapter in Last Aid: The Medical Dimensions of Nuclear War, New York: W.H. Freeman & Co., A Scientific American Book, (in press).
- (58) "Hiroshima and Nagasaki: Reflections on Public and Professional Morality", Journal of Public Health Policy, (in press).
- (59) "The Limits of Health Care: How Much (Of What?) Is Enough (For Whom?)", The Hastings Center Symposium on Ethical Issues in Cost Containment, National Center for Health Services Research, (in press).
- (60) "Boston City Hospital: A Memoir", in The Harvard Medical Unit at Boston City Hospital, Vol. II, Autobiography, Boston: A Commonwealth Fund Publication of the Francis A. Countway Library of Medicine, Harvard Medical School, (in press).
- (61) "Other Voices, Other Rooms: The Meaning of Community-Oriented Primary Care in the American Context", Proceedings of the Institute of Medicine, National Academy of Sciences, Washington, D.C., (in press).

(Partial Listing)

- (1) Review: "A Theory of Medical Ethics", Robert M. Veatch, New York Times Book Review, January 31, 1982, p. 11.
- (2) Review: "The DNA Story: A Documentary History of Gene Cloning", J.D. Watson and John Touze, Science '81, Vol. 2, No. 9, pp. 124-125, November 1981.
- (3) Op-Ed Column: "Destruction: What One Warhead Would Do", San Jose Mercury News, San Jose, California, October 16, 1981.
- (4) Review: "Bad Blood: The Tuskegee Syphilis Experiment", J.H. Jones, New York Times Book Review, June 21, 1981, p. 9.
- (5) Review: "The Panda's Thumb", Stephen Jay Gould, Ph.D., New York Times Book Review, September 14, 1980, p. 7.
- (6) Review: "The Broken Heart: Medical Consequences of Loneliness in America", James J. Lynch, New York Times Book Review, July 10, 1977, p. 9.
- (7) Review: "A Good Age", Alex Comfort, and "Prolongevity", Albert Rosenfeld, New York Times Book Review, November 29, 1976, p. 5.
- (8) Review: "The Body is the Hero", Ronald J. Glasser, M.D., New York Times Book Review, September 5, 1976, p. 14.
- (9) Analysis: "The New York Hospitals in Crisis", New York Times News of the Week in Review, August 22, 1976, p. 5.
- (10) Op-Ed Column: "Doctors for Everyone", New York Times, August 2, 1976, with Victor W. Sidel, M.D..
- (11) Review: "Medical Nemesis", Ivan Illich, New York Times Book Review, May 2, 1976, p. 1.
- (12) Review: "American Medical Avarice", "The Great American Medical Show", and "Humanizing Health Care", New York Times Book Review, December 14, 1975, p. 7.
- (13) Review: "Who Shall Live? Health, Economics and Social Choice", Victor R. Fuchs, New York Times Book Review, March 2, 1975, p. 1.
- (14) Review: "All God's Dangers: The Life of Nate Shaw", Theodore Rosengarten, New York Times Book Review, October 20, 1974, p. 1.
- (15) Review: "Blue Cross" What Went Wrong?", Sylvia Law, New York Times Book Review, June 23, 1974, p. 23.
- (16) "Putting China's Medicine in Perspective", Medical World News, Vol. 14, No. 20, May 13, 1973, pp. 43-49.
- (17) "China's Pragmatic Approach to Care", Medical World News, Vol. 14, No. 22, June 1, 1973, pp. 22-30.

- (18) "Acupuncture Anesthesia: The Chinese Explanation", Medical World News, Vol. 14, No. 27, July 13, 1973, pp. 551-61.
- (19) "Auditing Cancer Research", Saturday Review, March 1962.
- (20) "The Waking Sickness: African Health and Culture Change", Saturday Review, September 3, 1960.
- (21) "Alcoholics Anonymous", New York Times Magazine, 1960.
- (22) "The Doctor Shortage", The Nation, January 23, 1960.
- (23) "Immunity in Cancer: Progress Report XI, Sloan Kettering Institute for Cancer Research, New York, June 1958.
- (24) "The Growing Pains of Science", Saturday Review, April 5, 1958.
- (25) "The Fifth Step: Nucleic Acid Research", Progress Report X, Sloan-Kettering Institute for Cancer Research, New York, June 1957.
- (26) "The Patient as a Human Being", New York Times Magazine, December 2, 1956.

(Partial Listing)

- (1) "The Poor and the Professional: Who Takes The Handle Off the Broad Street Pump?", Special Session on New Partnerships in Delivery of Health Services, 94th Annual Meeting, American Public Health Association, San Francisco, California; November 1, 1966.
- (2) "Nutrition and Economics in the Black Rural South", Symposium on Nutritional and Economic Problems of the Aged, 128th Annual Meeting, American Association for the Advancement of Science, Boston, Massachusetts; December 28, 1969.
- (3) "Community and Health Professional Relationships in a Decade of Change", Commencement Address, Wayne State University School of Medicine, Detroit, Michigan, May 18, 1970.
- (4) "The Future of Health Care Delivery", Mulholland Society Symposium, University of Virginia Medical School, Charlottesville, Virginia; April 11, 1970.
- (5) "Social Reform: Hidden Roles for the Health Professional", John Peters Annual Lecture, Yale University School of Medicine, New Haven, Connecticut, October 13, 1970.
- (6) "Health Care and Health Centers: The Integration of Preventive, Curative, Environmental and Community Development Services", 14th Annual Lectureship, American College of Preventive Medicine, Houston, Texas, October 28, 1970.
- (7) "Dilemmas of Health and Social Change", Annual Lectureship, Physicians Forum, New York, October 19, 1971.
- (8) "Beyond Health Care: Education for Community Medicine", New York Health Services Research and Policy Seminar, New York, February 1, 1972.
- (9) "Educational Change and Social Change: The Mandate of Community and Social Medicine", Keynote address, Milbank Memorial Fund Conference on Faculty Fellows in Social Medicine, Mexico City, February 26, 1972.
- (10) "Health Professional in the Community", annual Harriet Cook Carter Lecture, Duke University, Durham, North Carolina, April 7, 1972.
- (11) "Community Facilities or Community Institutions: Quality and Consumer Control", 32nd Annual Health Conference, New York Academy of Medicine, April 28, 1972.
- (12) "Patient Care and the Union Member's Responsibility", 2nd Annual Health Conference, Local 1199, Drug and Hospital Union, National Union of Hospital Employees, AFL-CIO, New York, May 20, 1972.
- (13) "Health and the Social Order in the People's Republic of China", Center for Oriental Studies, University of Pennsylvania, November 16, 1973.
- (14) "Primary Health Care in the People's Republic of China", American Academy of Family Physicians, Annual Scientific Sessions, Denver, October 2, 1973.

- (15) "The Politics of Deprivation: Community Participation in Health Programs", Special Lecture, Institute for Policy Studies, Duke University, Durham, North Carolina, October 25, 1973.
- (16) "The Delta Health Center Experience: The People of the Community as the Most Valuable Resource", Medical Care Section, American Public Health Association 102nd Annual Convention, New Orleans, Louisiana, October 21, 1974.
- (17) "Organizing Communities for Change in Health: Implications of the Experience of the People's Republic of China", Committee on International Health, American Public Health Association, 102nd Annual Convention, New Orleans, Louisiana, October 21, 1974.
- (18) "Social Values, Political Climate, National Health Insurance and the Health of the Poor", Medical Care Section Plenary Session address, American Public Health Association, 102nd Annual Convention, New Orleans, Louisiana, October 22, 1974.
- (19) "Rural Health: Old Problems and New Solutions", The HEW Colloquium, Lecture series of the Department of Health, Education and Welfare, Rockville, Maryland, February 7, 1974.
- (20) "Health Care Delivery Systems and Health Progress in Cuba", Symposium on Cuba 1974, New York University Medical Center, New York, November 21, 1974.
- (21) "Learning from the Developing Countries: The Training and Use of Rural Front-Line Health Workers in the Rural U.S.A.", 2nd Asian Congress on Agricultural Medicine and Rural Health, Teheran, Iran, April 16, 1975.
- (22) "Psychiatry, Poverty and Social Change", the first annual Licha-Lopez Memorial Lecture, Harvard Medical School, Boston, Massachusetts, May 26, 1976.
- (23) "Organization and Effectiveness in Rural Health Delivery Systems", American Public Health Association, 105th Annual Convention, Washington, D.C., November 8, 1977.
- (24) "Primary Care, Medical Education and the Crisis of the Cities", Annual Address, Section on Science and Public Policy, New York Academy of Sciences, March 11, 1977.
- (25) "Research and the Spectrum of Underserved Populations: Rural to Inner City", Keynote address, Conference on Directions in Health Evaluation and Research, National Center for Health Services Research at Annapolis, Maryland, January 7, 1978
- (26) "Holistic Medicine and the Limits of Health Care: How Much (Of What?) Is Enough (for Whom?)", Conference on Ethics and Health Cost Containment, Institute of Society, Ethics and the Life Sciences, at Arlington, Virginia, October 3, 1978.
- (27) "Educating the New Community Practitioner", Health Policy Advisory Committee Forum, New York University Medical Center, March 13, 1978.
- (28) "Interdisciplinary Education for the Health Professions", Spring Meeting, Association for the Behavioral Sciences and Medical Education, Lake Tahoe, California, April 30, 1979.

- (29) "The Public Sector in Health Care Delivery: Model or Dinosaur", presented at the 107th Annual Meeting, American Public Health Association, November 5, 1979.
- (30) "Problems Confronting the New York City Hospital System: A Decade of Denial", presented at the 107th Annual Meeting, American Public Health Association, November 5, 1979.
- (31) "Crisis in the Public Sector: Challenge to the Public's Health", Community Health Speakers Forum, Harvard School of Public Health, Boston, Massachusetts, January 31, 1980.
- (32) "Chinese and Cuban Experiments in Health Care: Implications for the U.S.", Institute on Health and Health Care, Boston University, Boston, Massachusetts, May 28, 1980.
- (33) "Medical Education and Community Medicine in the United States", Guest Lectures, Hadassah Medical School (Jerusalem), Hai a Medical School, Technion University (Haifa), Ben Gurion University Medical School (Beersheva) Israel, May 1-9, 1980.
- (34) "Health Status of the Disadvantaged", Guest Lecture, National Blue Cross-Blue Shield Fellow's Seminar, Washington, D.C., April 25, 1980.
- (35) "Acute Medical Problems Among the Survivors of a Nuclear Attack: Short and Intermediate-Term Effects", presented at "The Medical Consequences of Nuclear Weapons and Nuclear War", a symposium sponsored by Harvard Medical School and Tufts University School of Medicine, Boston, Massachusetts, February 9, 1980.
- (36) "Acute Medical Problems of Survivors in New York", presented at "The Medical Consequences of Nuclear Weapons and Nuclear War", a symposium sponsored by Columbia University College of Physicians and Surgeons and Albert Einstein College of Medicine, New York, NY, September 27, 1980.
- (37) "A One-Megaton Attack on San Francisco: Medical Implications", presented at a symposium on "The Medical Consequences of Nuclear Weapons and Nuclear War", sponsored by the University of California/San Francisco School of Medicine, Stanford University School of Medicine, and the University of California/Berkeley School of Public Health, San Francisco, November 17, 1980.
- (38) "Medical Responses to Nuclear War: Technical and Ethical Considerations", Seminar Series in Science, Technology and Society, Massachusetts Institute of Technology, Cambridge, Massachusetts, October 28, 1980.
- (39) "Affirmative Action in Medical School Admissions", Sixth Conference on Ethics, Humanism and Medicine, University of Michigan Medical School, Ann Arbor, Michigan, November 8, 1980.
- (40) "Health Care for One Billion People: Understanding China", 1980-81 Lecture Series on China, YM-YWHA, New York, New York, November 10, 1980.
- (41) "Community Change: Long-term Social Effects of a Rural Community Health Center", Community Medicine Seminar, University of Connecticut School of Medicine, Farmington, Connecticut, January 10, 1981.

- (42) "The Danger of Nuclear War", Cooper Union Forum, New York, NY, March 9, 1981.
- (43) "Problems of Medical Care Following a Thermonuclear Attack", paper presented at 1st Annual Congress, International Physicians for the Prevention of Nuclear War, Airlie House, Warrenton, Virginia, March 20, 1981.
- (44) "The Ivory Tower and the Community", keynote address, National Convention, American Medical Student Association, Houston, Texas, March 26, 1981.
- (45) "Medical Effects of Thermonuclear Weapons", Medical Grand Rounds, University of Washington School of Medicine, Seattle, Washington, April 16, 1981.
- (46) "The Mississippi Delta Project: Health Care as an Instrument of Social Change", Special Seminar, School of Public Health and Community Medicine, University of Washington, April 16, 1981.
- (47) "A MIRV Footprint on Seattle: Medical Effects", presented at "The Medical Consequences of Nuclear Weapons and Nuclear War", a symposium sponsored by the University of Washington School of Medicine, and The Washington State Medical Association, Seattle, Washington, April 18, 1981.
- (48) "Social Responsibility and the Physician's Commitment", Commencement Address, Boston University School of Medicine, Boston, Massachusetts, May 17, 1981.
- (49) "Health Centers and Rural Health", Seminar on Rural Health, Harvard School of Public Health, Boston, Massachusetts, May 18, 1981.
- (50) "Community-Based Health Care", presented at a symposium on "Social Medicine: The Continuing Agenda", sponsored by Albert Einstein College of Medicine, Rockefeller University, New York, NY, May 28, 1981.
- (51) "Acute Medical Problems of Survivors", presented at a symposium on "The Medical Consequences of Nuclear Weapons and Nuclear War", sponsored by Northwestern University Medical School, Chicago Medical School, Loyola University Stritch School of Medicine, Rush Medical College, University of Illinois School of Public Health and College of Medicine, Chicago, IL, June 19, 1981.
- (52) "Nuclear War and the Illusion of Survival", presented at the 1981 Monadnock Summer Lyceum, Peterborough, NH, July 19, 1981.
- (53) "Survival After Nuclear Attack", Arms Race Alternatives Symposium, Columbia University, New York, NY, September 23, 1981.
- (54) "Acute Medical Problems Among Survivors of a One-Megaton Attack on Albuquerque", presented at a symposium on "Medical Consequences of Nuclear Weapons and Nuclear War", sponsored by the University of New Mexico School of Medicine, New Mexico Public Health Association and the Navajo Health Authority, Albuquerque, NM, September 25, 1981.

- (55) "Medical Effects of the Neutron Bomb", presented at a symposium on the Neutron Bomb, sponsored by Physicians for Social Responsibility, Cooper Union, New York, NY, October 12, 1981.
- (56) "Medical Aspects of Nuclear Weapons and Nuclear War", Special Lecture Series, The New School for Social Research, New York, NY, October 27, 1981.
- (57) "Fatalities, Injuries and Medical Effects of a Thermonuclear Attack on Los Angeles", paper presented at a symposium on "The Medical Effects of Nuclear Weapons and Nuclear War", sponsored by the UCLA Schools of Medicine, Nursing and Public Health, the UCSD School of Medicine, UC Irvine School of Medicine, and Loma Linda University School of Medicine, Los Angeles, California, October 31, 1981.
- (58) "Medical Consequences of Nuclear War", Medical Care Section, American Public Health Association, 109th Annual Meeting, Los Angeles, California, November 2, 1981.
- (59) "Community-Oriented Primary Care", Medical Care Section, American Public Health Association, 109th Annual Meeting, Los Angeles, California, November 5, 1981.
- (60) "Nuclear War as a Public Health Challenge", Closing Plenary Session Address, American Public Health Association, 109th Annual Meeting, Los Angeles, CA, November 5, 1981.
- (61) "Effects of a Thermonuclear Attack on Salt Lake City", presented at a Conference on "The Health Effects of Nuclear War", sponsored by the University of Utah College of Health Sciences, The Utah State Medical Association, and the Utah State Department of Health, Salt Lake City, November 7, 1981.
- (62) "A Thermonuclear Attack on New York City", Grand Rounds, Department of Pediatrics and Social Medicine, Montefiore Hospital and Medical Center, Bronx, New York, November 11, 1981.
- (63) "Acute Medical Problems of Survivors of Nuclear Explosions", presented at a symposium on "The Medical Consequences of Nuclear Weapons and Nuclear War", sponsored by the University of Pennsylvania School of Medicine, Hahnemann Medical College, Jefferson Medical College, and Medical College of Pennsylvania, Philadelphia, PA, November 14, 1981.
- (64) "Medical Implications of a Nuclear Attack on Toronto", presented at a symposium on "The Medical Consequences of Nuclear Weapons and Nuclear War", sponsored by the Faculty of Medicine, University of Toronto, Toronto, Canada, December 5, 1981.
- (65) "Bio-ethical Implications of Nuclear Weapons", Grand Rounds, Department of Community Medicine, Mt. Sinai Medical School, New York, NY, January 27, 1982.
- (66) "Neighborhood Health Centers: Retrospective and Prospects for the Future", Area Health Education Center Symposium, University of Connecticut Medical School, Farmington, Connecticut, January 28, 1982.

- (67) "Measuring the Impact of Funding Cuts: Data on Clients and Communities", Annual Address, Capitol Region Community Council, Hartford, Connecticut, January 28, 1982.
- (68) "Medical Consequences of Nuclear War", Special Lecture, The University of Illinois Medical Center, Chicago, IL, February 3, 1982.
- (69) "Professions, Goals and Lives", Lecture Series in Science, Medicine and Humanities, Rush Medical School, Chicago, IL, February 3, 1982.
- (70) "Effects of a One-Megaton Airburst Over Chicago", Grand Rounds, Department of Pediatrics, University of Chicago Medical School, Chicago, IL, February 3, 1982.
- (71) "The Physician as Social Activist", Lecture sponsored by Medicine and Society, Harvard Medical School, Boston, Massachusetts, February 11, 1982.
- (72) "Nuclear Disarmament", a lecture sponsored by Cornell University and the Tompkins County Nuclear Weapons Freeze Campaign, Ithaca, NY, February 17, 1982.
- (73) "Health Implications of the Reagan Budget", annual meeting, Tompkins County Comprehensive Health Planning Council, Health Systems Agency, Ithaca, NY, February 18, 1982.
- (74) "Issues in Health Policy: The Threat of Nuclear War", Guest Lecture at the School of Public Health, University of North Carolina, Chapel Hill, NC, February 22, 1982.
- (75) "The Arms Race and the Threat of Nuclear War", symposium sponsored by the Public Health Research Institute of New York, New York University Medical Center, February 24, 1982.
- (76) "Medical Consequences of Nuclear War", Grand Rounds, Department of Medicine, Montefiore Hospital and Medical Center, Bronx, NY, March 1, 1982.
- (77) "Community-Oriented Primary Care: Definition and History", Core Paper, Conference on Community-Oriented Primary Care, Institute of Medicine, National Academy of Sciences, Airlie House, Warrenton, VA, March 9, 1982.
- (78) "Medical Consequences of Nuclear Weapons", Special Lecture, School of Medicine, University of California/Davis, Sacramento, California, March 17, 1982.
- (79) "Preventing Nuclear War", presented at a Public Health Meeting on Nuclear War, California Department of Health Services, Sacramento, CA, March 17, 1982.
- (80) "Medical Consequences of Nuclear Weapons", Special Lecture, American River College, Sacramento, CA, March 18, 1982.
- (81) "Community-Oriented Primary Care", Guest Lecture, University of California School of Public Health, Berkeley, CA, March 19, 1982.

- (82) "Thermonuclear War As A Medical Issue", Special Lecture, Department of Medicine, Cook County Hospital, Chicago, IL, March 24, 1982.
- (83) "The Effects of Nuclear War on the Countries of Europe: Summary Statement", Second Annual Congress, International Physicians for the Prevention of Nuclear War, Cambridge, England, April 7, 1982.
- (84) "Community-Oriented Primary Care: Epidemiology in Neighborhood Health Centers", symposium of the Department of Community Medicine, Northwestern University School of Medicine, Chicago, IL, April 14, 1982.
- (85) "Nuclear War and Medical Problems", Grand Rounds, Department of Medicine, Northwestern University School of Medicine, Chicago, IL, April 14, 1982.
- (86) "The Medical Consequences of Nuclear Accidents and Nuclear War", 63rd Annual Session, American College of Physicians, Philadelphia, PA, April 20, 1982.
- (87) "The Fallacy of Civil Defense: A Medical Perspective", Special Lecture, Cleveland State University, Cleveland, Ohio, April 21, 1982.
- (88) "Acute Medical Effects of a Nuclear War", presented at a symposium on "The Medical Consequences of Nuclear Weapons and Nuclear War", sponsored by the George Washington University Medical Center and the Foundation for Advanced Education in the Sciences, Washington, DC, May 11, 1982.
- (89) "Medicine and Nuclear War", Conference on Science, Medicine and the Politics of Nuclear Armament, sponsored by Sloan Lettering Institute, Memorial Cancer Center and Cornell University Medical College, New York, NY, May 20, 1982.
- (90) "Nuclear War, Civil Defense and Medical Ethics", Plenary Session Address, Canada West Medical Congress, Vancouver, B.C., May 30, 1982.
- (91) "Acute Medical Problems Following a Nuclear Attack on San Diego", symposium on "The Medical Consequences of Nuclear War", sponsored by the Office of Continuing Education, University of California/San Diego School of Medicine, San Diego, CA, 1982.
- (92) "Medical Aspects of Civil Defense", Grand Rounds, Department of Medicine, Long Island Jewish Hospital, Nassau County, NY, September 10, 1982.
- (93) "Moral Responsibilities of Physicians and Students", presented at a Conference on "Containing the Nuclear Threat", sponsored by Rutgers Medical School, Piscataway, NJ, September 11, 1982.

(Partial Listing)

- (1) Testimony on Medical Consequences of a Thermonuclear War, Subcommittee on Health, United States Senate, Hearings on Civil Defense, Washington, D.C., March 6, 1980.
- (2) The Foreign Policy and Arms Control Implications of Strategic Force Modernization Proposals, Committee on Foreign Relations, United States Senate, Washington, D.C., Nov. 9, 1981.
- (3) "Surviving a Nuclear Attack: The Myth of Civil Defense", Background Series Session, Nongovernmental Organization Committee on Disarmament, United Nations, New York, NY, January 19, 1982.
- (4) Statement before a Public Meeting on the Introduction of the Kennedy-Hatfield Freeze Resolution, American University, Washington, D.C., March 10, 1982.
- (5) Testimony on Medical Aspects of Crisis Relocation, Joint Legislative Forum, House and Senate Health Committee, California State Legislature, Sacramento, California, March 17, 1982.
- (6) Testimony on the Medical Consequences of a Nuclear Attack on U.S. Cities, Armed Services Committee, U.S. House of Representatives, Ad Hoc Hearings on The Implications of the Military Budget, Washington, D.C., March 31, 1982.
- (7) Statement before the Military and Civil Defense Subcommittee, New York State Assembly, on the impact of a nuclear attack on New York State and New York City, April 19, 1982.
- (8) Addresses to House and Senate Staff Meeting, United States Congress, U.S. Capitol, and an invitational briefing on The Medical Consequences of Nuclear Weapons and Nuclear War, United States Senate, sponsored by Physicians for Social Responsibility and Council for a Liveable World, Washington, D.C., May 2, 1982.
- (9) "A Medical Analysis of Crisis Relocation", Statement before the Committee on Environmental Protection, City Council, City of New York, June 9, 1982.
- (10) Testimony on Civil Defense before the Public Safety Committee, Boston City Council, hearings on Crisis Relocation Planning, Boston, Massachusetts, June 24, 1982.

- (1) "Out in the Rural: A Health Center in Mississippi", produced for Tufts University School of Medicine and the North Bolivar County Health Council, 1970; Foto-Kew Laboratories, Los Angeles, California.
- (2) "The Last Epidemic: Medical Consequences of Nuclear Weapons and Nuclear War", Impact Productions, Resource Center for Non-Violence, Santa Cruz, California, 1981.

PUBLIC EDUCATION ACTIVITIES

(Partial Listing)

- (1) Interview on National Public Television Network, "The Nuclear Freeze Rally: A Summary", WNET-TV, New York, June 12, 1982.
- (2) Interview on BBC World Service Series, "Surviving the Bomb", British Broadcasting Corp., London, June 3, 1982.
- (3) Interview on Civil Defense on "Assignment: Science", West German National Television Network, June 1982.
- (4) Interview and Panel Discussion on The Arms Race and Civil Defense, The David Susskind Show, Independent Television Network, New York, April 24, 1982.
- (5) Interview on Civil Defense, "New York, NY", Public Television Network, WNET-TV, New York, April 19, 1982.
- (6) Discussions of Nuclear Weapons, West German Television Network, March 11, 1982, East German (GDR) Television Network, May 11, 1982; BBC-TV, London, England, April 7, 1982.
- (7) Canadian National Television and National Film Board of Canada, Seminar with Medical Students on Medical Aspects of Nuclear Arms, New York, April 2, 1982.
- (8) Interview on Effects of Nuclear Weapons, CBS Morning News, CBS National Television Network, New York, April 1, 1982.
- (9) Interview and Discussion on Civil Defense, The McNeil-Lehrer Report, National Public Television, WNET-TV, New York, March 2, 1982.
- (10) Discussion/Interview on Community Health Centers and Medical Care in the South, "All Things Considered", National Public Radio, February 25, 1982.
- (11) Interview on Civil Defense, "Night Line", ABC Television Network, January 14, 1982.
- (12) Interview on "The Threat of Nuclear War", "California Times", California Council for the Humanities, California Public Radio Network, December 17, 1981.
- (13) Interview on Medical Effects of Nuclear Weapons, "Tomorrow Show", NBC National Television Network, New York, October 15, 1981.

PUBLIC EDUCATION ACTIVITIES (continued)

- (14) Discussion and interview on Civil Defense, "Common Ground", National Public Radio Network, September 23, 1981.
- (15) Interview on Effects of Nuclear Weapons, CBS Television Series, "The Defense of America", Part One, June 14, 1981.
- (16) Interviews on Nuclear War and Civil Defense, WOR-TV, New York, March 25, 1982 and May 19, 1981.

- 1949 - 50 Student research project with Dr. Nathaniel Kleitman, Department of Physiology, University of Chicago Medical School, on the physiology of sleep and fatigue.

- 1954 - 55 Student research project, "Mechanism of Metastasis in the Ehrlich Ascites Tumor", with Dr. E. E. Ecker, Institute of Pathology, Western Reserve University.

- 1955 - 56 (Summer) Marine Biological Laboratory, Woods Hole, Massachusetts, "Comparative Studies in Hemolysis of Human Erythrocytes", with Dr. A.K. Parpart, Department of Biology, Princeton University.

- 1956 - 58 M.D. thesis project, "Medical Education and Cultural Determinants of Health and Illness", with Dr. T. Hale Ham, Division of Medical Education, School of Medicine, Western Reserve University.

- 1957 Studies in social and medical pathology and culture change in urban and rural Zulu populations, with Dr. Sidney Kark, Professor of Social Medicine, University of Natal Medical School, Durban, Union of South Africa, at the Lamontville and Pholela Health Centers.

- 1959 - 62 Research in the Department of Preventive Medicine, Harvard Medical School: (1) Studies in Physician-Patient Relationships: The Choice and Use of Physicians by Families; (2) Determinants of the Quality of Medical Performance by Physicians; (3) Determinants of Choice of Career and Hospital Training by Physicians, with Dr. Osler Peterson, Visiting Professor of Professor of Preventive Medicine; (4) Studies of the Effects of Nuclear Weapons and Medical Responses to Nuclear Attack.

- 1960 - 62 (Part-time) Chief Consultant, NIMH-Harvard School of Public Health Cross-Cultural Survey of Social Factors in the Etiology of Disease (Hypertension, Rheumatoid Arthritis, Schizophrenia).

- 1963 - 64 Development of a Portable Electronic Device for Recording Blood Pressure in Epidemiologic Surveys, with Dr. Edward H. Kass, Harvard Medical School, and Professor Eric Mollo-Christenson, M.I.T.

- 1965 - 71 (1) Proposed the Neighborhood Health Center program to the Office of Economic Opportunity; designed and implemented the first OEO health center grants (for programs in urban Boston and rural Mississippi);

 (2) Assisted in drafting amendments to the Economic Opportunity Act (1966) creating the OEO Office of Health Affairs and authorizing and funding the national neighborhood health center network; Consultant to the Director, OEO, the Assistant Secretary for Health, H.E.W., and the Subcommittee on Health, U.S. Senate, on regulations, implementation and policy;

 (3) Planned, budgeted and directed an urban community health center with an annual budget of \$1.8 million and a staff of approximately 100, and a rural community health center with a budget of \$3.5 million, a staff of more than 200, and major program components in medical care, nutrition, environmental sanitation, community organization, health education, and health careers training;

(4) Designed and supervised evaluation research on: medical care utilization by poverty populations; impact of health centers on medical care utilization and on other providers of care; change in health attitudes, knowledge, behaviors and hospital utilization by inner-city and rural low-income populations; community organization in urban and rural populations; health team development and use of paraprofessionals in primary care;

(5) Designed and supervised pre-clinical and clinical clerkships and related teaching programs in community medicine at urban and rural health center sites for students in medicine, public health, social work, environmental engineering, law and urban planning;

(6) Initiated and shared academic direction of a special program at Tufts University School of Medicine for the recruitment, selection, and academic support of severely educationally disadvantaged rural and inner-city medical students;

(7) Initiated, funded (from governmental and foundation sources), and directed health center programs in which more than 90 local disadvantaged minority students received academic support, remediation, assistance and placement in programs ranging from high school equivalency certification, L.P.N. certification, Registered Sanitarian and other technical certifications, to successful completion of baccalaureate, R.N., law, M.D., M.S.W. and Ph.D. degrees.

1971 - 77

Initiated and chaired (1971-73, 1976-77) a Department of Community Medicine, with 14 faculty lines, at a new medical school; responsible for the development of community medicine courses and programs and for community medicine teaching in other schools of the Health Sciences Center; assisted in the planning and development of a university-related suburban Health Maintenance Organization, and in the planning of ambulatory care for a new university teaching hospital; Executive Committee, Curriculum Committee, Admissions Committee, School of Medicine, State University of New York at Stony Brook.

1978

Director of a program (equivalent to a department) in community medicine, with 9 full-time, 5 part-time and more than 20 adjunct faculty lines and annual budget of approximately \$500,000, in a unique 6-year medical school oriented toward urban primary care. Administratively responsible for development of Primary Care Clinical Campuses and field teaching at more than 50 community sites, as well as for community medicine teaching over four years of the curriculum. Executive Committee, Admissions Committee, Task Force on Curriculum Revision (Chairperson), Curriculum Committee, Academic Steering Committee, School of Biomedical Education, City College of New York.

VICTOR W. SIDEL, M.D.

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Montefiore Medical Center

Professor of Community Health
Chairperson, Department of Community Health (West Campus)
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Education: Princeton University, A.B. cum laude (physics) 1949-1953

Harvard University, M.D. with honors in a
special field (biophysics) 1953-1957

London School of Hygiene and Tropical Medicine
(Combined Course in Epidemiology and
Medical Statistics) 1967-1968

Training and Professional Peter Bent Brigham Hospital, Boston, Mass.
Intern in Medicine 1957-1958

Appointments: Junior Assistant Resident in Medicine 1958-1959

National Institutes of Health, Bethesda,
Maryland
Clinical Associate, National Heart Institute
and Senior Assistant Surgeon, U.S. Public
Health Service 1959-1961

Assistant in Medicine, George Washington
University School of Medicine 1960-1961

Peter Bent Brigham Hospital
Senior Assistant Resident in Medicine 1961-1962

Biophysical Laboratory, Harvard Medical School,
Boston
Instructor in Biophysics, Harvard University 1962-1964
Advanced Research Fellow, American Heart
Association 1962-1964

Junior Associate in Medicine, Peter Bent
Brigham Hospital 1962-1966

Consulting Physician in Medicine (Child
Health Division) and Internist, Family
Health Care Program, Children's Hospital
Medical Center 1963-1966

Member, Massachusetts Commission on Radiation
Protection 1963-1964

Chief, Preventive Medicine Unit	1964-1967
Associate in Preventive Medicine, Harvard Medical School	1964-1967
Course in Epidemiology, National Communicable Disease Center, Atlanta, Georgia	1964
Courses in Biostatistics and in Medical Care Administration, Harvard School of Public Health	1964-1965
Research Fellow, Medical Foundation	1964-1968
Faculty Fellow, Milbank Memorial Fund	1964-1971
Executive Secretary, Utilization Review Committee, MGH	1967-1969
Study Year in the U.S.S.R., Great Britain, and Scandinavia	1967-1968
U.S.-U.S.S.R. Health Exchange Visitor	
Combined Course in Epidemiology and Medical Statistics, London School of Hygiene and Tropical Medicine	
Courses in Social Policy, London School of Economics and Political Science	
Research Project and Seminars, Social Research Unit, Bedford College, University of London	
Massachusetts General Hospital, Boston	1968-1969
Chief, Community Medicine Unit	
Assistant Professor of Medicine, Harvard Medical School	
Member, Center for Community Health and Medical Care, Harvard Medical School and Harvard School of Public Health	
Montefiore Hospital and Medical Center and Albert Einstein College of Medicine, Bronx, N.Y.	
Chairman, Dept. of Social Medicine, MHMC	1969-
Professor, Community Health (Social Medicine), AECOM	1969-
Consulting Physician, Department of Social Medicine, Morrisania City Hospital	1969-1976
Associate, University Seminar on Social and Preventive Medicine, Columbia University	1970-
Chairperson, Ambulatory Medical Care Audit Committee, MHMC	1971-
Chairperson, Institutional Review Board for Protection of Human Subjects, MHMC	1972-
Visiting faculty member, Program in Health, Medicine and Society and Department of Community Health and Social Medicine, School of Biomedical Education, City College, City University of New York	1973-
Honorary Attending Physician, Department of Ambulatory Care, North Central Bronx Hospital	1976-

Experience in
International
Medical Care

USSR

US-USSR Health Exchange Visitor 1967
Study Visit 1978

Great Britain, Norway, Sweden, Denmark
Study Year 1967-1968

People's Republic of China--Invitation
of Chinese Medical Association 1971, 1972, 197
1980, 1982

Republic of Chile
Chilean Ministry of Health 1973
Academy of Christian Humanism 1979

Democratic Republic of Vietnam (North
Vietnam)--Representative of Medical
Aid to Indochina 1974

Republic of Cuba--Invitation of Cuban
Ministry of Health 1978

World Health Organization
Consultant, Adviser (Geneva) 1969, 1974, 197
Consultant (Malaysia) 1974
Consultant (Western Pacific Regional
Office, Manila) 1974

Scandinavian School of Public Health
(Goteborg), Visiting Professor 1975, 1976, 197
1981

Editorial Boards
and Editorial
Consultantships

Hospital Practice 1966-

Postgraduate Medicine 1969-

The New Physician 1971-1975

International Journal of Health Services 1971-1979

Update International 1972-1974

American Journal of Drug and Alcohol Abuse 1973-1981

American Journal of Chinese Medicine 1975-

Forum on Medicine (American College of
Physicians) 1978-1980

Journal of Prison Health: Law, Medicine,
Corrections, and Ethics 1980-

Journal of Latin Community Health 1980-

Journal of Public Health Policy 1982-

Current Society
Memberships and
Fellowships

American Public Health Association (Fellow, 1970;
Member, various Councils and Committees, 1968- ;
Governing Council, 1978- , Nominating Comm., 1979-81;
Chairman, Nominating Committee, 1980-81)

Association of Teachers of Preventive Medicine
International Epidemiological Association

New York Academy of Medicine (Member, Committee on
Medicine in Society, 1970-)

New York Academy of Sciences

Physicians for Social Responsibility
(Vice-Chairman 1966-69; Member, National Advisory
Board, 1979- ; Member, Board of Directors, 1982-)

Physicians Forum (Chairperson, 1971-72; Member,
Board of Directors, 1969-)

Public Health Association of New York City (Member,
Board of Directors, 1979-80; Chairman, Public Policy
and Legislation Comm., 1979-80; President, 1981-83)

Society for Health and Human Values

Current
Memberships on
Advisory and
Other Boards

Advisory Board, Occupational Health Media Project, Oil
Chemical and Atomic Workers International Union

Advisory Committee, Coalition for a National Health
Service

Consultant, Project on Low-Income Consumers,
Consumers Union of the United States

Medical Care Evaluation Subcommittee, Bronx
Professional Standards Review Organization

Advisory Committee, Bronx Community College

Advisory Board, Continuing Medical Education,
New York Botanical Gardens

National Advisory Board, National Senior Citizens
Education and Research Center

Recent Honors

Recipient, Sarah L. Poiley Award of the New York
Academy of Sciences for "Outstanding contributions
toward improvement in the general health of the
population", 1978

Commencement speaker, School of Medicine,
University of California--Davis, 1981

PUBLICATIONS

1. Sidel, V.W., and Solomon, A.K.: Entrance of water into human red cells under an osmotic pressure gradient. J. Gen. Physiol. 41: 243-257, 1957.
2. Sidel, V.W., Wilson, R.E., and Shipp, J.C.: Pseudocyst formation in chronic pancreatitis. Arch. Surg. 77: 933-937, 1958.
3. Shipp, J.C., Sidel, V.W., Donaldson, R.M. and Gray, S.J.: Serious complications of peptic ulcer after acute myocardial infarction. New Eng. J. Med. 261: 222-226, 1959.
4. Sidel, V.W.: Medical ethics and the cold war. The Nation 191: 325-327, 1960.
5. Sidel, V.W.: Confidential information and the physician. New Eng. J. Med. 264: 1133-1137, 1961. (Reprinted J. Irish Med. Assoc. 49: 98-103, 1961.)
6. Sidel, V.W., Geiger, H.J., and Lown, B.: The medical consequences of thermonuclear war. II. The physician's role in the postattack period. New Eng. J. Med. 266: 1137-1145, 1962.
7. Aronow, S., Ervin, F.R., and Sidel, V.W. (eds.): The Fallen Sky: Medical Consequences of Thermonuclear War. New York: Hill and Wang, Inc., 1963.
8. Oski, F.A., Nathan, D.G., Sidel, V.W., and Diamond, L.K.: Extreme hemolysis and red-cell distortion in erythrocyte pyruvate kinase deficiency. I. Morphology, erythrokinetics and family enzyme studies. New Eng. J. Med. 270: 1023-1030, 1964.
9. Savitz, D., Sidel, V.W., and Solomon, A.K.: Osmotic properties of human red cells. J. Gen. Physiol. 48: 79-94, 1964.
10. Nathan, D.G., Oski, F.A., Sidel, V.W., and Diamond, L.K.: Extreme hemolysis and red cell distortion in erythrocyte pyruvate kinase deficiency. II. Measurements of erythrocyte glucose consumption, potassium flux and adenosine triphosphate stability. New Eng. J. Med. 272: 118-123, 1965.
11. Sidel, V.W. and Goldwyn, R.M.: Chemical and biologic weapons--a primer. New Eng. J. Med. 274: 21-27, 1966.
12. Ebert, R.H. and Sidel, V.W.: Public law 89-97: Its impact on clinical teaching and clinical research. Clinical Research 14: 195-199, 1966.
13. Sidel, V.W. and Bonnano, R.A.: Immunization survey of personnel at the Massachusetts General Hospital. Hospitals, J.A.H.A. 40: 54-58, 1966.
14. Mayer, J. and Sidel, V.W.: Crop destruction in South Vietnam. The Christian Century 83: 829-832, 1966.
15. Nathan, D.G., Oski, F.A., Sidel, V.W., and Diamond, L.K.: Studies of erythrocyte spicule formation in hemolytic anemia. Brit. J. Hemat. 12: 385-395, 1966.
16. Sidel, V.W.: Medical aspects of civil defense. pp. 53-75. In Eyring, H., ed., Civil Defense. (Publication No. 82 of the American Association for the Advancement of Science) Washington, D. C., 1966.

17. Goldwyn, R.M. and Sidel, V.W.: Chemical and biological weapons and the physician. PRE-MED 5: 36-47, 1966.
18. Sidel, V.W.: Book review: The Individual, Society, and Health Behavior. Milbank Memorial Fund Quarterly 44: 501-505, 1966.
19. Sidel, V.W.: Evaluation of the quality of medical practice. J. Amer. Med. Assn. 198: 763-764, 1966.
20. Kolb, J. and Sidel, V.W.: Medicare: The end of the beginning. The Physician's Panorama 5: 11-16, 1967.
21. Sidel, V.W.: Book review: Conflict in Society. Ann. Int. Med. 66: 625-626, 1967.
22. Sidel, V.W.: Editorial: Quantifying quality. Hospital Practice 2 (4): 9, 1967.
23. Janower, M.L., Sidel, V.W., and Flynn, M.J.: Follow-up study of a group of patients who received thorium dioxide for cerebral arteriography. Radiology 88: 1004-1006, 1967.
24. Sha'afi, R.I., Rich, G.T., Sidel, V.W., Bossert, W. and Solomon, A.K.: The effect of the unstirred layer on human red cell water permeability. J. Gen. Physiology 50: 1377-1399, 1967.
25. Sidel, V.W.: Our responsibility and our opportunity. Massachusetts Physician 26: 372-373, 1967.
26. Sidel, V.W., Koch-Weser, J., Barnett, G.O., and Eaton, A.: Epidemiology of drug utilization and adverse drug reactions at the Massachusetts General Hospital: A progress report. Hospitals, J.A.H.A. 41: 80-88, 1967.
27. Reich, P. and Sidel, V.W.: Napalm. New Eng. J. Med. 277: 86-88, 1967.
28. Sidel, V.W. and Goldwyn, R.M.: Chemical weapons: What they are and what they do. Scientist and Citizen 9: 141-148, 1967.
29. Janower, M.L., Sidel, V.W., and Flynn, M.J.: Preliminary report on the follow-up of patients with thorium dioxide deposits in Boston. Annals of the New York Academy of Sciences 145: 849-852, 1967.
30. Greenes, R.A. and Sidel, V.W.: The use of computer mapping in health research. Health Services Research 2: 243-258, 1967.
31. Sidel, V.W.: The medical staff and quality of care: Techniques for assessment-Validity and limitation. Papers from the First National Congress on the Socio-Economics of Health Care. Chicago: American Medical Association, 1967.
32. Kolb, J. and Sidel, V.W.: The influence of utilization review on hospital length of stay: Initial experience at the Massachusetts General Hospital. J. Amer. Med. Assn. 203: 95-97, 1968.
33. Sidel, V.W.: Book review: Preventive Medicine. Ann. Int. Med. 68: 716-717, 1968.

34. Sidel, V.W.: Research into biological warfare. Proceedings of the Medical Association for Prevention of War. 7: 6-11, 1968.
35. Sidel, V.W.: Feldshers and "feldsherism". New Eng. J. Med. 278: 934-940, 981-992, 1968. (Reprinted in Bullough, B. and Bullough, V., eds. New Directions for Nurses. New York: Springer Publishing Co., 1971)
36. Sidel, V.W.: Aesculapius and Mars. Lancet 1: 966-967, 1968.
37. Janower, M.L., Sidel, V.W., Baker, W.H., Fitzpatrick, D.E.P., Guarino, F.I., and Flynn, M.J.: Late clinical and laboratory manifestations of thorotrast administration in cerebral arteriography: A follow-up study of thirty patients. New Eng. J. Med. 279: 186-189, 1968.
38. Wittes, J. and Sidel, V.W.: A generalization of the simple capture-recapture model with applications to epidemiological research. J. Chronic Dis. 21: 287-301, 1968.
39. Goldwyn, R.M. and Sidel, V.W.: The physician and war. pp. 325-346. In Torrey, E.F., ed., Ethical Issues in Medicine: The Role of the Physician in Today's Society. Boston: Little, Brown & Co., 1968.
40. Sidel, V.W.: Napalm. pp. 44-47. In Rose, S., ed., CBW: Chemical and Biological Warfare. London: Harrap, 1968.
41. Sidel, V.W.: Medical ethics. pp. 172-178. In Rose, S., ed., CBW: Chemical and Biological Warfare. London: Harrap, 1968.
42. Liberman, R., Gold, W., and Sidel, V.W.: Medical ethics and the military. The New Physician 17: 299-309, 1968.
43. Sidel, V.W.: Book review: Chemical and Biological Warfare and The Silent Weapons. Bulletin of the Atomic Scientists 25: 33-34, January, 1969.
44. Koch-Weser, J., Sidel, V.W., Sweet, R.H., Kanarek, P., and Eaton, A.E.: Factors determining physician reporting of adverse drug reactions: Comparison of 2,000 spontaneous reports with surveillance studies at the Massachusetts General Hospital. New Eng. J. Med. 280: 20-26, 1969.
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48. Sidel, V.W., Acton, J., and Lown, B.: Models for the evaluation of pre-hospital coronary care. Amer. J. Cardiology 24: 674-688, November, 1969.

49. Wegman, D.G., Schoenbaum, S.C., and Sidel, V.W.: Pilot application of a teaching technique in social medicine. Journal of Medical Education: 44: 1017-1023, November, 1969.
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51. Sidel, V.W.: Editorial: Hospital on view. New Eng. J. Med. 282: 279-280, 1970.
52. Koch-Weser, J., Sidel, V.W., Federman, E.G., Kanarek, P., Finer, D.S., Eaton, A.E.: Adverse effects of sodium colistimethate. Annals of Internal Medicine 72: 857-868, June, 1970.
53. Sidel, V.W.: Foreword: Community and social medicine. Postgraduate Medicine. 47: 128-129, June, 1970.
54. Sidel, V.W., ed.: Sociogenic health and disease: Welfare failure leads to drug poisoning. The New Physician: 19: 923-925, November, 1970.
55. Sidel, V.W., ed.: Sociogenic health and disease: Puerto Rican culture, illness, and espiritism. The New Physician: 20: 24-27, January, 1971.
56. Sidel, R., and Sidel, V.W.: Blood Giving and National Character. Review of The Gift Relationship by Richard Titmuss. Social Policy 1: No. 6, 62-63, March-April, 1971.
57. Sidel, V.W., ed.: Sociogenic health and disease: Youngster injured by train underscores issues in preventive medicine and chronic care. The New Physician: 20: 322-324, May, 1971.
58. Kindig, D.A., and Sidel, V.W.: Proposed National Health Insurance Programs: Impact on the Consumer. In Eilers, R., and Moyerman, S., eds., National Health Insurance. Homewood, Illinois: Richard D. Irwin, Inc., 1971.
59. Sidel, V.W., ed.: Sociogenic health and disease: House staff rotations lead to fragmented hospital care. The New Physician: 20: 399-402, June, 1971.
60. Sidel, V.W., ed.: Sociogenic health and disease: Jail for the child who needs help. The New Physician: 20: 537-542, August, 1971.
61. Sidel, V.W., ed.: Sociogenic health and disease: Attempts to help a 14-year-old heroin user. The New Physician: 20: 584-586, September, 1971.
62. Sidel, V.W.: New technologies and the practice of medicine. In Mendelsohn, E., Swazey, J., and Taviss, I., eds., Human Aspects of Biomedical Innovation. Cambridge, Mass: Harvard University Press, 1971.
63. Koch-Weser, J., Sidel, V.W., Dexter, M., Paris, C., Finer, D.C., Kanarek, P.: Adverse Reactions to Sulfisoxazole, Sulfamethoxazole, and Nitrofurantoin. Archives of Internal Medicine: 128: 399-404, 1971.

64. Sidel, V.W., ed.: Sociogenic health and disease: The individual, the institution and suicide. The New Physician 20: 646-649, October, 1971.
65. Sidel, V.W., ed.: Sociogenic health and disease: Asthma in a city hospital. The New Physician 20: 715-717, November, 1971.
66. Sidel, V.W., ed.: Sociogenic health and disease: Planning for abortion services in the Bronx. The New Physician 20: 773-774, December, 1971.
67. Sidel, V.W., ed.: Sociogenic health and disease: Children are not for burning. The New Physician 21: 86-88, February, 1972.
68. Sidel, V.W., ed.: Sociogenic health and disease: The institution as surrogate parent. The New Physician 21: 152-153, March, 1972.
69. Sidel, R. and Sidel, V.W.: Human Services in the People's Republic of China. Social Policy 2: 25-34, March/April, 1972. (Reprinted in People's China: Social Experimentation, Politics, Entry onto the World Scene, 1966 through 1972. Edited by David Milton et al. New York: Vintage Books (Random House), 1974, Pp. 178-194.)
70. Sidel, V.W.: The case of the truncated bar chart: Infant mortality in the U.S. The New Physician 21: 230-233, April, 1972.
71. Sidel, V.W.: Serve the people: Medical education in the People's Republic of China. The New Physician 21: 284-291, May, 1972.
72. Sidel, V.W., ed.: Sociogenic health and disease: 19th hospitalization of a 27 year old patient. The New Physician 21: 302-303, 322, May, 1972.
73. Sidel, V.W.: The barefoot doctors of the People's Republic of China. New Eng. J. Med. 286: 1292-1299, June 1972.
74. Sidel, V.W., ed.: Sociogenic health and disease: Rickets in the South Bronx. The New Physician 21: 364-367, June, 1972.
75. Sidel, V.W.: Medical personnel and their training. In Quinn, J.R., ed., Medicine and Public Health in the People's Republic of China. DHEW Publication No. (NIH) 72-67, June, 1972.
76. Jonas, S., O'Dwyer, E., Zendel, J., Sidel, V.W.: Ambulatory heroin detoxification in municipal hospital. New York State Journal of Medicine 72: 2099-2105, August, 1972.
77. Sidel, V.W., ed: Sociogenic health and disease: Who is the patient? The New Physician 21:466-468, August, 1972.
78. Sidel, V.W.: Serve the people: Medical care in the People's Republic of China. Asia, Number 26: 3-30, Summer, 1972.
79. Sidel, V.W.: Some observations on the organization of health care in the People's Republic of China. International Journal of Health Services 2: 385-395, August, 1972.

93. Sidel, V.W., ed.: Sociogenic Health and Disease: Meningitis: The Patient, the Mother and the Doctors. The New Physician 22: 438-439, 448, July, 1973.
94. Sidel, V.W.: Medical Care: Playing Politics with Health. Pp.58-83 in What Nixon Is Doing To Us. Alan Gartner, Colin Greer, and Frank Riessman, eds. New York: Harrow Books, Harper & Row, 1973.
95. Sidel, V.W.: The Health Workers of the Fengsheng Neighborhood of Peking. American Journal of Orthopsychiatry 43: 737-743, October, 1973.
96. Sidel, V.W.: The Role and Training of Medical Personnel in the People's Republic of China. Pp. 158-167 in Public Health in the People's Republic of China. Myron E. Wegman, Tsung-yi Lin, and Elizabeth F. Purcell, eds. New York: Josiah Macy, Jr. Foundation, 1973.
97. Sidel, V.W., ed.: Sociogenic Health and Disease: How Many Slices in a Patient? The New Physician 22: 656-658, October, 1973.
98. Sidel, V.W. and Sidel, R.S.: Serve the People: Observations on Medicine in the People's Republic of China. New York: The Josiah Macy, Jr. Foundation, 1973.
99. Wittes, J.T., Colton, T., and Sidel, V.W.: Capture-recapture Methods for Assessing the Completeness of Case Ascertainment When Using Multiple Information Sources. J. Chronic Diseases 27: 25-36, February, 1974.
100. Sidel, V.W., and Sidel, R.S.: The Delivery of Medical Care in China. Scientific American 230 (No.4): 19-27, April, 1974.
101. Sidel, V.W.: Health Services in the People's Republic of China. Pp. 103-127 in Medicine and Society in China. John Z. Bowers and Elizabeth Purcell, eds. New York: Josiah Macy, Jr. Foundation, 1974.
102. Sidel, V.W.: China's Barefoot Doctors. Update International 1: 425-429, June, 1974.
103. Lamm, S.H., and Sidel, V.W.: Public Health in Shanghai: An Analysis of Preliminary Data. Pp. 109-144 in China Medicine As We Saw It. Joseph R. Quinn, ed. Washington, D.C.: Department of Health, Education, and Welfare, Publication No. (NIH) 75-684, 1974.
104. Sidel, V.W. and Sidel, R.: Medicine in China: Individual and Society. Pp. 23-36 in The Future of Individualism, Hastings Center Studies 2 (No.3), September, 1974. (Reprinted in Health, Volume 1, No. 16, Gaithersburg, Maryland: Social Issues Resources Series, 1976)
105. Sidel, V.W., ed.: Sociogenic Health and Disease: The Patient Injured by Medical Care: Whose Responsibility? The New Physician 23: 62-64, November, 1974.

106. Aranoff, G., and Sidel, V.W.: Discussion in Case Studies in Bioethics: An IUD and the Question of Safety. The Hastings Center Report. Vol. 4, No. 6: 13, December, 1974.
107. Drucker, E., and Sidel, V.W.: The Communicable Disease Model of Heroin Addiction: A Critique, Amer. J. Drug and Alcohol Abuse 1: 301-311, 1974. (Also, Sidel, V.W. and Drucker, E: Letter: Further Comments on the Communicable Disease Model of Heroin Addiction. Amer. J. Drug and Alcohol Abuse 3: 369-372, 1976.)
108. Sidel, V.W., ed.: Sociogenic Health and Disease: Research on Adolescent Prison Inmates: Can Free and Informed Consent Be Obtained? The New Physician 24 (No.3): 52-55, March, 1975.
109. Sidel, R., and Sidel, V.W.: How Many Wheelbarrows of Nightsoil Do the Red Guards Collect to Serve the People of the Commune?: Education in The People's Republic of China. Columbia University Teacher's College Record 76:605-616 May, 1975.
110. Sidel, V.W. The New Health Practitioner--An International Perspective. Pp. 21-24 in Proceedings of the Symposium on New Health Practitioners in Primary Care, New York: Bronx Health Manpower Consortium, 1975.
111. Sidel, V.W.: Medical Care in the People's Republic of China. Archives of Internal Medicine 135:916-926, July, 1975. (Reprinted in Dominant Issues in Medical Sociology, H.D. Schwartz and C.S. Kart, eds, Reading, MA: Addison-Wesley Publishing Co., 1978.)
112. Belmar, R., and Sidel, V.W.: An International Perspective on Strikes and Strike Threats by Physicians: The Case of Chile. International Journal of Health Services 5: 53-64, 1975. (Reprinted in Samuel Wolfe, ed., Organization of Health Workers and Labor Conflict, Farmingdale, N.Y.: Baywood Publishing Co., 1978).
113. Sidel, V.W. and Sidel, R.: The Health Care Delivery System of the People's Republic of China. Pp. 1-12 in Health By The People, K.W. Newell, ed. Geneva: World Health Organization, 1975.
114. Sidel, V.W., and Sidel, R.: The Development of Health Care Services in the People's Republic of China, World Development 3:539-549, July-Aug., 1975. (Reprinted, in revised form, in China's Road to Development, Neville Maxwell, editor. Oxford: Pergamon Press, 1978).
115. Sidel, V.W.: Foreword: Services for the Bereaved: A Social-Medicine Perspective. In Bereavement: Its Psychosocial Aspects. Schoenberg, et al., eds. New York: Columbia University Press, 1975.
116. Sidel, V.W. Quality for Whom? Effects of Professional Responsibility for Quality of Health Care on Equity. Bulletin of the New York Academy of Medicine. 52: 164-176, January, 1976.
117. Sidel, R., and Sidel, V.W.: Health Care in China's Cities. New York Affairs 3: 42-53, Winter, 1976.
118. Eisner, J.D., and Sidel, V.W.: Folk Medicine. Article in Encyclopedia Americana, 1976.

6-18, May, 1976. (Reprinted in Health, Volume 1, No. 49, C. L. Harburg, Maryland: Social Issues Research Series, 1976; and in The Nation's Health, Philip R. Lee, Nancy Brown, and Ida Red, editors, San Francisco: Boyd & Fraser Publishing Co., 1981.)

120. Sidel, V.W. and Sidel, R.: Self-Reliance and the Collective Good: Medicine in China. Pp. 57-75 in Ethics and Health Policy, R.M. Veatch and Ray Branson, editors. Cambridge, Mass: Ballinger Publishing Co., 1976.
121. Drucker, E., and Sidel, V.W.: Scientific Freedom: Sacred Principle or Secular Politics? Pp. 113-122 in Genetic Destiny: Scientific Controversy and Social Conflict. E. Tobach and H.M. Proshansky, editors. New York: AMS Press, 1976.
122. Sidel, V.W., and Sidel, R.: Beyond Coping. Social Policy 7(2):67-69, Sept.-Oct., 1976
123. Sidel, V.W., and Sidel, R.: Good Health Begins at Home. Parents' Magazine 51 (11): 60,87-90, November, 1976.
124. Culpepper, L., Veatch, R.M., and Sidel, V.W.: Medical Ethics and Consent. Journal of Family Practice 4 (3): 581-587, March, 1977.
125. Rubenstein, L., Mates, S., and Sidel, V.W.: Quality-of-Care Assessment by Process and Outcome Scoring: Use of Weighted Algorithmic Assessment Criteria for Evaluation of Emergency Room Care of Women with Symptoms of Urinary Tract Infection. Annals of Internal Medicine 86:617-625, May, 1977.
126. Sidel, V.W. and Sidel, R.: Primary Health Care in Relation to Socio-Political Structure. Social Science and Medicine 11:415-419, April, 1977.
127. Drossness, D.L., Jonas, S., and Sidel, V.W.: The Delivery of Health Care. Chapter 21 in Practice of Medicine, Vol. 1. Hagerstown, Maryland: Harper & Row, 1977 (Revision of item 91).
128. Sidel, V.W. and Sidel, R.: Health Care Services (Article in a special issue on China). Social Scientist (Journal of the Indian School of Social Sciences) 5 (10-11):114-130, May-June, 1977 (Revision of item 114).
129. Sidel, V.W. and Sidel, R.: A Healthy State: An International Perspective on the Crisis in U.S. Medical Care. New York: Pantheon Books, 1978. (Chapters reprinted in The Sociology of Health and Illness: Critical Perspectives, Peter Conrad and Rochelle Kern, editors, N.Y.: St. Martin's Press, 1981.)
130. Sidel, V.W.: Special Presentation: Who Does Primary Care? Personnel Selection and Training. Primary Health Care in Industrialized Nations, Annals of the New York Academy of Sciences 310: 188-192, 1978.
131. Sidel, V.W.: Humane Qualities to Meet Human Needs and Technical Skill to Meet Technical Needs: How Can We Bridge the Gap in Primary Care? Primary Health Care in Industrialized Nations, Annals of the New York Academy of Sciences 310: 193-197, 1978.

132. Sidel, V.W.: The Right to Health Care: An International Perspective. Pp. 341-50 in Bioethics and Human Rights: A Reader for Health Professionals. Elsie Bandman and Bertram Bandman, editors. Boston: Little, Brown and Co., 1978.
133. Kindig, D.A., Sidel, V.W., and Birnbaum, I.: National Health Insurance for Inner City Underserved Areas: General Criteria and Analysis of a Proposed Administrative Mechanism. Pp. 60-75, 82 in Effects of the Payment Mechanism on the Health Care Delivery System. DHEW Publication No. (PHS) 78-3227. Washington, D.C.: National Center for Health Services Research, Department of Health, Education and Welfare, 1978.
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135. Sidel, R. and Sidel, V.W.: Book Review: The Politics of Medicine in China: The Policy Process 1949-1977, by David Lampton. New China 4 (No. 3): 44-46, Fall, 1978.
136. Geiger, H.J., and Sidel, V.W.: Medical School Admissions: The Case for a Quota. Hastings Center Report 8 (no. 5): 18-20, 1978.
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