

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD
Before Administrative Judges
Louis J. Carter, Chair
Frederick J. Shon
Dr. Oscar H. Paris

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In the Matter of:	:	Docket Nos.
CONSOLIDATED EDISON COMPANY OF NEW YORK	:	50-247 SP
Inc. (Indian Point, Unit No. 2),	:	50-286 SP
	:	
POWER AUTHORITY OF THE STATE OF NEW YORK	:	
(Indian Point, Unit No. 3)	:	July 23, 1982

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Testimony Submitted on Behalf of
"New York City Council" Intervenors

By

HOWARD S. BERLINER Sc.D.

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Testimony of Howard S. Berliner, Sc.D.

Attachment #1 lists the certified bed capacity of all New York City acute care hospitals as of December 31, 1981. This list is further broken down by the auspice of the hospital and by borough of location of the hospital. This list also contains the 1980 medical-surgical occupancy rates for each hospital.

For the Bronx:

The Bronx has a total of 3948 medical surgical beds. In 1980 87.9% of these beds were occupied. There are 11 beds certified for burns care in the Bronx.

For Brooklyn:

Brooklyn has a total of 6614 medical surgical beds. In 1980 87.1% of these beds were occupied. There are 5 beds certified for burns care in Brooklyn.

For Manhattan:

Manhattan has a total of 10,129 medical surgical beds. In 1980 88.2% of these beds were occupied. There are 28 certified beds for burns care in Manhattan

For Queens:

Queens has a total of 4402 medical surgical beds. In 1980 92.1% of these beds were occupied. There are no certified beds for burns care in Queens

For Richmond:

Richmond has a total of 1,048 medical surgical beds. In 1980 90.3% of these beds were occupied. There are no certified beds for burns care in Richmond.

It can thus be seen that New York City hospitals have a high occupancy rate and little capacity to deal with burns care.

All hospitals are required by New York State law to have plans to deal with an emergency. Additionally, an emergency plan is a requirement for accreditation of hospitals by the Joint Commission on Hospital Accreditation. Hospitals routinely conduct drills to enable them to prepare for an emergency of some kind in which they would have to admit large numbers of new patients. As can be seen from the occupancy data, this would require the discharge of large numbers of current patients in the face of any major catastrophe. The small number of burns care beds suggests that New York City is not especially well prepared to deal with any type of emergency that might include large numbers of burn victims. In recent years New York City has had problems with the Emergency Medical Services system. Ambulances have been diverted away from hospitals because their emergency rooms were already full. This ambulance diversion affects particularly hospitals in Northern Manhattan, the Northern Bronx and the northern portions of Queens. It would thus seem that at the present time, New York City hospitals would be severely pressed to be able to cope with a large influx of patients coming from the Westchester region.

To the best of my knowledge, New York City hospitals do not have emergency plans that are specific to radiological emergencies. I have spoken with several hospital directors who have confirmed this fact.

BRONX
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

1980 occupancy %
Med-Surg

91.6%

86.5%

77.4%

94.1%

93.2%

6.3%

53.6%

52.7%

80.7%

84.2%

98.1%

84.7%

87.7%

Type	GENERAL ACUTE CARE								NON-GENERAL ACUTE CARE				Total All Services	
	Medical/Surgical				Pedi- atric	Neo- natal ICU	Mater- nity	Total General Care	Psychi- atric	Phys. Med. & Rehab.	Other	Total Non-General Care		
	Med/Surg	Intensive Care	Coronary Care	Total										
<u>Voluntary</u>														
Bronx-Lebanon Hospital Ctr.	390	18	--	408	40	16	49	513	32	--	--	32	545	
Calvary Hospital	175	--	--	175	--	--	--	175	--	--	--	--	175	
Misericordia Hosp. Med. Ctr.	321	--	--	321	30	--	30	381	--	--	--	--	381	
Montefiore Hosp. Med. Ctr.	1,014	19	8	1,041	120	--	36	1,197	22	22	--	44	1,241	
Montefiore Division	690	11	8	709	79	--	--	788	22	--	--	22	810	
AECOM Division	324	8	--	332	41	--	36	409	--	22	--	22	431	
St. Barnabas Hospital	319	--	--	319	--	--	--	319	25	47	24	96	415	
Union Hospital	177	6	--	183	--	--	18	201	--	--	--	--	201	
Total Voluntary	2,396	43	8	2,447	190	16	133	2,786	79	69	24	172	2,958	
<u>Municipal</u>														
Bronx Municipal Hosp. Ctr.	477	27	12	516	60	26	44	646	106	54	60	220	866	
Lincoln Hospital	316	15	--	331	100	18	60	509	30	--	--	30	539	
North Central Bronx Hosp.	252	20	--	272	37	15	28	352	23	25	--	48	400	
Total Municipal	1,045	62	12	1,119	197	59	132	1,507	159	79	60	298	1,805	
<u>Proprietary</u>														
Pelham Bay General Hosp.	173	10	--	183	--	--	--	183	--	--	--	--	183	
Prospect Hospital	149	--	--	149	18	--	--	167	--	--	--	--	175	
Westchester Square Hosp.	185	10	10	205	--	--	--	205	--	--	--	--	205	
Total Proprietary	507	20	10	537	18	--	--	555	--	--	--	--	555	
Total Bronx	3,948	125	30	4,103	405	75	265	4,848	238	148	84	470	5,318	

Source: Blue Cross and New York State Supplement to the Institutional Cost Report, 1980.
State Hospital Review and Planning Council Recommendations.
New York City Health Systems Agency Project Review Files.

BROOKLYN
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

1980 OCC RATE
Med - Surg

86.5%
89.5%
93.2%
86.7%
87.8%
62.1%
87.4%
94.9%
92.7%
88.3%
94.1%
80.5%
80.6%
87.1%
107.3%
97.0%

Voluntary

Baptist Hospital of N.Y.
Brookdale Hosp. Med. Ctr.
Brooklyn Hospital
Caledonian Hospital
Community Hosp. of Brooklyn
Hospital of the Holy Family
Jewish Hosp. & Med. Ctr.
Kingsbrook Jewish Med. Ctr.
Long Island College Hosp.
Lutheran Medical Center
Maimonides Medical Center
Methodist Hospital
St. John's Episcopal Hosp.
St. Mary's Hospital
Victory Memorial Hospital
Wyckoff Heights Hospital

Total Voluntary

Municipal

Coney Island Hospital
Cumberland Hospital
Greenpoint Hospital
Kings County Hosp. Ctr.

Total Municipal

	GENERAL ACUTE CARE							NON-GENERAL ACUTE CARE					Total All Services
	Medical/Surgical	Intensive Care	Coronary Care	Total	Pedi-atric	Neo-natal ICU	Mater-nity	Total General Care	Psychi-atric	Phys. Med. & Rehab.	Other	Total Non-General Care	
Med/Surg													
Baptist Hospital of N.Y.	168	--	--	168	14	--	--	182	30	--	--	30	212
Brookdale Hosp. Med. Ctr.	576	23	12	611	64	32	48	755	52	--	--	52	807
Brooklyn Hospital	341	--	--	341	33	28	42	444	--	--	--	--	444
Caledonian Hospital	183	4	3	190	--	--	19	209	--	--	--	--	209
Community Hosp. of Brooklyn	128	6	--	134	--	--	--	134	--	--	--	--	134
Hospital of the Holy Family	79	4	--	83	--	--	--	83	--	--	--	--	83
Jewish Hosp. & Med. Ctr.	427	14	--	441	60	36	49	586	--	--	--	--	586
Kingsbrook Jewish Med. Ctr.	280	10	5	295	16	--	--	311	--	40	--	40	351
Long Island College Hosp.	453	15	8	476	53	--	38	567	--	--	--	--	567
Lutheran Medical Center	402	22	8	432	34	--	36	502	--	30	--	30	532
Maimonides Medical Center	472	27	8	507	43	20	60	630	70	--	--	70	700
Methodist Hospital	376	14	8	398	35	8	36	477	40	14	--	54	531
St. John's Episcopal Hosp.	263	12	6	281	29	--	--	310	25	--	--	25	335
St. Mary's Hospital	191	12	4	207	35	--	28	270	--	--	--	--	270
Victory Memorial Hospital	224	--	--	224	--	--	30	254	--	--	--	--	254
Wyckoff Heights Hospital	362	16	--	378	32	--	27	437	--	--	--	--	437
Total Voluntary	4,925	179	62	5,166	448	124	413	6,151	217	84	--	301	6,452
Coney Island Hospital	287	19	15	321	26	--	27	374	30	33	8	71	445
Cumberland Hospital	180	11	--	191	31	--	31	253	--	16	12	28	281
Greenpoint Hospital	102	--	--	102	23	--	22	147	--	--	--	--	147
Kings County Hosp. Ctr.	622	32	6	660	105	--	70	835	292	82	66	440	1,275
Total Municipal	1,191	62	21	1,274	185	--	150	1,609	322	131	86	539	2,148

(continued)

BROOKLYN (continued)
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

		GENERAL ACUTE CARE							NON-GENERAL ACUTE CARE					
		Medical/Surgical				Pedi- atric	Neo- natal ICU	Mater- nity	Total General Care	Psychi- atric	Phys. Med. & Rehab.	Other	Total Non-General Care	Total All Services
		Med/Surg	Intensive Care	Coronary Care	Total									
83.7% 93.2%	Proprietary													
	Flatbush General Hospital	98	3	4	105	--	--	--	105	--	--	--	--	105
	Kings Highway Hospital	200	6	6	212	--	--	--	212	--	--	--	--	212
	Total Proprietary	298	9	10	317	--	--	--	317	--	--	--	--	317
92.2%	State													
	Downstate Medical Center	200	9	7	216	56	18	30	320	34	18	--	52	372
87.1%	Total Brooklyn	6,614	259	100	6,973	689	142	593	8,397	573	233	86	892	9,289

Source: Blue Cross and New York State Supplement to the Institutional Cost Reports, 1980.
State Hospital Review and Planning Council Recommendations.
New York City Health Systems Agency Project Review Files.

MANHATTAN
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

		GENERAL ACUTE CARE							NON-GENERAL ACUTE CARE					
		Medical/Surgical			Pedi- atric	Neo- natal ICU	Mater- nity	Total General Care	Psychi- atric	Phys. Med. & Rehab.	Other	Total Non-General Care	Total All Services	
		Med/Surg	Intensive Care	Coronary Care										Total
Voluntary														
788	Beekman/NY Infirmary	295	16	8	319	9	--	24	352	--	--	--	--	352
856	Beth Israel Medical Center	548	28	8	584	36	14	42	676	79	28	180	286	962
888	Cabrini Medical Center	425	15	8	448	--	--	--	448	30	--	--	30	478
865	Doctors Hospital	246	7	10	263	--	--	--	263	--	--	--	--	263
842	Hospital for Joint Diseases- Orthopaedic	230	--	--	230	--	--	--	230	--	--	--	--	230
872	Hospital for Special Surgery	170	--	--	170	30	--	--	200	--	--	--	--	200
901	Jewish Memorial Hospital	168	10	--	178	11	--	--	189	--	--	--	--	189
1066	Joint Diseases North General Hospital	128	10	--	138	12	--	--	150	50	--	--	50	200
937	Lenox Hill Hospital	578	20	27	625	32	6	33	696	--	--	--	--	696
745	Manhattan Eye, Ear & Throat Hospital	150	--	--	150	--	--	--	150	--	--	--	--	150
935	Memorial Hosp. for Cancer	497	20	6	523	42	--	--	565	--	--	--	--	565
918	Mt. Sinai Hospital	859	39	14	912	85	30	82	1,109	103	--	--	103	1,212
581	N.Y. Eye & Ear Infirmary	166	--	--	166	--	--	--	166	--	--	--	--	166
887	N.Y. Hospital	772	9	15	796	63	49	71	979	108	--	--	108	1,087
903	N.Y. University Med. Ctr. Osteopathic Hospital & Clinic of New York	569	34	6	609	55	4	36	704	22	152	--	174	878
810	Presbyterian Hospital	979	38	12	1,029	129	30	72	1,260	15	16	--	31	1,291
459	Rockefeller University Hosp.	40	--	--	40	--	--	--	40	--	--	--	--	40
836	St. Clare's Hosp. & Med. Ctr.	337	9	8	354	--	--	--	354	12	--	--	12	366
876	St. Luke's-Roosevelt Hsp.Ctr. Roosevelt Division	1,025	36	18	1,079	51	12	98	1,240	75	--	--	75	1,315
	St. Luke's Division	431	20	5	456	--	--	40	496	39	--	--	39	535
	St. Vincent's Hsp. & Med.Ctr.	594	16	13	623	51	12	58	744	36	--	--	36	780
844	St. Vincent's Hsp. & Med.Ctr.	580	35	--	615	31	18	24	688	100	--	--	100	788
Total Voluntary		8,762	326	140	9,228	586	163	482	10,459	593	196	180	969	11,428

(continued)

MANHATTAN (continued)
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

		GENERAL ACUTE CARE							NON-GENERAL ACUTE CARE					
		Medical/Surgical			Pedi- atric	Neo- natal ICU	Mater- nity	Total General Care	Psychi- atric	Phys. Med. & Rehab.	Other	Total Non-General Care	Total All Services	
		Med/Surg	Intensive Care	Coronary Care										Total
Municipal														
876%	Bellevue Hospital	503	47	12	562	58	20	40	680	300	64	59	423	1,103
821%	Harlem Hospital Center	497	19	5	521	66	30	50	667	37	30	56	123	790
762%	Metropolitan Hospital Ctr.	281	20	4	305	40	10	43	398	132	20	19	171	569
Total Municipal		1,281	86	21	1,388	164	60	133	1,745	469	114	134	717	2,462
Proprietary														
651%	Medical Arts Center Hosp.	86	--	--	86	--	--	--	86	--	--	--	--	86
882%	Total Manhattan	10,129	412	161	10,702	750	223	615	12,290	1,062	310	314	1,686	13,976

Sources: Blue Cross and New York State Supplement to the Institutional Cost Reports, 1980.
State Hospital Review and Planning Council Recommendations.
New York City Health Systems Agency Project Review Files.

QUEENS
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

		GENERAL ACUTE CARE							NON-GENERAL ACUTE CARE				Total All Services	
		Medical/Surgical			Pedi- atric	Neo- natal ICU	Mater- nity	Total General Care	Psychi- atric	Phys. Med. & Rehab.	Other	Total Non-General Care		
		Med/Surg	Intensive Care	Coronary Care										Total
Voluntary														
1029	Booth Memorial Med. Ctr.	296	20	13	329	18	--	36	383	--	--	--	--	383
891	Flushing Hosp. & Med. Ctr.	318	16	8	342	30	20	32	424	--	--	--	--	424
886	Hillcrest General Hsp.-GHI	192	8	--	200	--	--	31	231	--	--	--	--	231
911	Jamaica Hospital	196	12	4	212	32	--	40	284	--	--	--	--	284
845	La Guardia Hospital-HIP	251	28	--	279	3	--	26	308	--	--	--	--	308
975	Long Island Jewish- Hillside Med. Ctr.	308	24	8	340	55	34	41	470	223	--	--	223	693
995	Mary Immaculate Hospital	185	16	--	201	24	--	32	257	--	--	--	--	257
942	Peninsula Hospital Center	254	6	6	266	16	--	--	282	--	--	--	--	282
944	St. John's Episcopal Hosp. South Shore Division	216	6	5	227	24	--	24	275	25	--	--	25	300
959	St. John's Queens Hosp.	236	13	4	253	16	--	31	300	--	--	--	--	300
Total Voluntary		2,452	149	48	2,649	218	54	293	3,214	248	--	--	248	3,462
Municipal														
784	City Hosp. Ctr. at Elmhurst	364	8	4	376	38	16	50	480	166	40	56	262	742
727	Queens Hospital Center	360	15	--	375	28	17	34	454	25	20	105	150	604
Total Municipal		724	23	4	751	66	33	84	934	191	60	161	412	1,346

(continued)

QUEENS (continued)
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

		GENERAL ACUTE CARE							NON-GENERAL ACUTE CARE				Total All Services
		Medical/Surgical			Pedi- atric	Neo- natal ICU	Mater- nity	Total General Care				Total Non-General Care	
		Med/Surg	Intensive Care	Coronary Care					Psychi- atric	Phys. Med. & Rehab.	Other		
Proprietary													
937	Astoria General Hospital	235	--	--	235	--	--	--	235	--	--	--	235
870	Boulevard Hospital	204	7	--	211	7	--	16	234	--	--	--	234
973	Deerpdale General Hospital	189	6	--	195	--	--	--	195	--	--	--	195
883	Parkway Hospital	215	9	5	229	--	--	--	229	--	--	--	229
787	Parsons Hospital	114	6	4	124	--	--	--	124	--	--	--	124
908	Physicians Hospital	142	--	--	142	--	--	--	142	--	--	--	142
961	Terrace Heights Hospital	127	--	--	127	--	--	--	127	--	--	--	127
Total Proprietary		1,226	28	9	1,263	7	--	16	1,286	--	--	--	1,286
Total Queens		4,402	200	61	4,663	291	87	393	5,434	439	60	161	6,094

Source: Blue Cross and New York State Supplement to the Institutional Cost Reports, 1980.
State Hospital Review and Planning Council Recommendations.
New York City Health Systems Agency Project Review Files.

STATEN ISLAND
Adjusted Certified Bed Capacity by Institution as of December 31, 1981

	GENERAL ACUTE CARE								NON-GENERAL ACUTE CARE				
	Medical/Surgical				Pedi- atric	Neo- natal ICU	Mater- nity	Total General Care	Psychi- atric	Phys. Med. & Rehab.	Other	Total Non-General Care	Total All Services
	Med/Surg	Intensive Care	Coronary Care	Total									
Voluntary													
830 Richmond Memorial Hospital	165	7	--	172	15	--	17	204	--	--	--	--	204
914 St. Vincent's Medical Ctr.	299	10	10	319	28	15	34	396	30	--	--	30	426
930 Staten Island Hospital	285	16	16	317	23	17	28	385	29	22	--	51	436
840 Bayley Seton	159	--	--	159	--	--	--	159	25	--	20	45	204
Total Voluntary	908	33	26	967	66	32	79	1,144	84	22	20	126	1,270
Proprietary													
748 Doctors' Hospital	140	6	--	146	--	--	--	146	--	--	--	--	146
Total Staten Island	1,048	39	26	1,113	66	32	79	1,290	84	22	20	126	1,416

Source: Blue Cross and New York State Supplement to the Institutional Cost Reports, 1980.
State Hospital Review and Planning Council Recommendations.
New York City Health Systems Agency Project Review Files.

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EDUCATION

Doctor of Science (Sc.D.) in Health Care Organization. (Awarded 1977)
Johns Hopkins University, School of Hygiene and Public Health,
Department of Health Care Organization, Baltimore, Maryland.

Major areas of study included: Health Policy and Planning, Health Services Research Methodology, History of Public Health and Medicine, Political Economy of Health Service Delivery. Research supported in part by NIH Medical Research Training Grant Fellowship.

Doctoral Thesis: "Scientific Medicine and Philanthropic Foundations."

Master of Professional Studies (MPS) with concentration in Hospital and Health Care Administration. (Awarded 1973, with distinction.)
Cornell University, Graduate School of Business and Public Administration, Ithaca, New York.

Major areas of study included: Political Economy of Health, Welfare and Social policy, Epidemiology and Medical Sociology, Health Planning, Health Care Administration.

Bachelor of Arts Degree (BA) with concentration in Chemistry and Biochemistry. (Awarded 1971) University of Vermont, Burlington, Vermont.

EXPERIENCE

Coordinator for Ambulatory Care, Health Systems Agency of New York City.
June, 1980 - present.

Responsibilities: Responsible for ambulatory care planning and policy analysis, certificate of need review and review of proposed uses of federal funds. Direct supervisory responsibility for six staff planners. Areas of supervision include: ambulatory care, health promotion, data management and analysis, health manpower, health status analysis, dental care and Emergency Medical Services.

Results: Staff has grown from four to six planners; Data analysis and manpower added to original responsibilities; reviewed 10-15 certificate of need/PUFF applications per month; designed ambulatory care study for New York City involving patient origin analysis of medicaid utilization; conducted analysis of hospital based group practice and an analysis of federal primary care program in New York City, designed criteria and standards for ambulatory surgery for New York City. Member of a variety of City-wide task forces on ambulatory care including: United Hospital Fund Patient Origin Information System, Greater New York Hospital Association Ambulatory Care Policy Task Force, Memorial Sloan-Kettering Cancer Control Program Regional Advisory Board, Greater New York Fund- United Way Information and Referral Task Force.

Visiting Assistant Professor, Graduate School of Public Administration,
Program in Health Policy, Planning and Administration, New York University.
1979-1980.

Responsibilities: Taught graduate level courses on the organization and financing of the U.S. health system. Advised graduate students in doctoral research. Administered health administration residency program for Masters level students.

Results: Achieved superior evaluations for teaching. Published several articles, book reviews and book chapters. Member of Doctoral thesis Committee for 7 students. Revamped residency program and secured stipended residencies for all students. Presented research at several professional society meetings.

Assistant Professor, Division of Public Health, University of Massachusetts, Amherst, Massachusetts.

1977-1979.

Responsibilities: Organized and taught graduate level courses in health care organization, health planning, history and philosophy of public health and medical care, political economy of health services organization and delivery. Advised Masters level students on thesis topics. Advised and served on Doctoral Committees. Administered health policy seminar and administrative internship program.

Results: Received consistently superior teaching evaluations. Published 10 articles and reviews and presented research at many professional meetings. Organized and chaired a semester long Health Policy Issues Seminar with campus wide audience. Secured summer internships for administration students and participated in site visits and evaluations.

OTHER TEACHING EXPERIENCE

Center for Metropolitan Planning and Research, Johns Hopkins University. 1977.
Taught Urban Health Planning course.

Department of Sociology, University of Maryland, Baltimore County. 1976-1977.
Instructor in Medical Sociology and Health Care.

Department of Health Care Organization, Johns Hopkins University. 1975-1976.
Organized and presented a seminar series on the historical development of the health care system.

Human Affairs Program, Cornell University, New York. 1973.
Lecturer in Health.

Department of Sociology, Cornell University, New York. 1972.
Teaching Assistant.

OTHER RELEVANT EXPERIENCE

Member of Steering Committee, Community Health Alternatives Project, Institute for Policy Studies, Washington D.C., 1975-1977.

Work included preparation and drafting of National Health Service legislation introduced in Congress in 1977 by Representative Dellums of California. Presented educational seminars and writings in support of national health service.

Research Assistant, Sloan Institute of Hospital Administration, Cornell University, 1972-1973.

Responsibilities included research and course grading.

Staff Associate to Committee on Health and Welfare, Tomkins County, N.Y., 1973.

Analyzed health legislation presented to Committee and conducted other research.

Hospital Administrative Residency, Boston Veterans Administration Hospital, Jamaica Plains, Massachusetts, 1972.

Responsibilities included projects on VA computerized management system, Disaster Planning, Intern and resident orientation program.

RECENT PRESENTATIONS

Oct. 1980, "Medical Licensing and Holistic Healers", presented at the American Public Health Association annual meeting, Detroit, Michigan.

Sept. 1980, "Planning For Ambulatory Care", presented at faculty seminar, Department of Urban Planning, Columbia University, N.Y.

Feb. 1980, "The Flexner Report Revisited", presented at department seminar, Department of Epidemiology and Public Health, Yale University.

Nov. 1979, "The Development of Higher Medical Education in the United States", presented at the colloquium on the history of academic disciplines, Oxford University, England.

Nov. 1979, "The Historical Role of Profit Making in the Health Care Industry", presented at the American Public Health Association annual meeting, New York.

May, 1979, "The Holistic Health Movement and Scientific Medicine", presented at the Conference on Economic Planning, New York University, New York.

PUBLICATIONS

- "The Holistic Health Movement: Challenges to Health Planning", Health Law Library Bulletin, March 1980, with J. Warren Salmon.
- "Why Medicine Is Failing", Health Law Library Bulletin, February 1980, with J. Warren Salmon.
- "Policy Implications of Holistic Medicine", Journal of Health Politics, Policy and Law, 5:3, Fall 1980, with J. Warren Salmon.
- "To Maintain And Promote Health", in Health Promotion Sampler, Lifeways, Easthampton, Massachusetts, 1979.
- "The Holistic Alternative to Scientific Medicine: History and Analysis", International Journal of Health Services, 10:1, 1980, with J. Warren Salmon.
- "Review of Medical Mystery by Steven Jonas", International Journal of Health Services, 10:2, 1980.
- "On Holistic Health", Letter to New England Journal of Medicine, 300:21, P1222, May 24, 1979, with J. Warren Salmon.
- "The New Realities of Health Policy and Influences of Holistic Medicine", Journal of Alternative Human Services, 5:2, Summer 1979, with J. Warren Salmon.
- "Health Policy For Prevention in America", USA Today, September 1979, with J. Warren Salmon.
- "Whither Public Health", Health Policy and Education, 1:2, July 1979.
- "The Epidemic of 1979", OP Editorial, New York Times, February 23, 1979, with J. Warren Salmon.
- "Industry and Health Care: A Review", Social Science and Medicine, 13:2, 1979.
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PROFESSIONAL AFFILIATIONS

American Public Health Association
American Association for the History of Medicine
American Health Planning Association
Hastings Center
Museum of Modern Art
Center for Public Cinema

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