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A Guide to the
Mudd Family Papers
1919-1980

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UPT 50 M944

Prepared by Theresa R. Snyder

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PROVENANCE

Accessioned in 1975 and 1980.

ARRANGEMENT

The collection is arranged in four series: Writings of Emily Hartshorne Mudd, Writings about Emily Hartshorne Mudd, Joint Writings of Emily and Stuart Mudd, and the Writings of Stuart Mudd. Within each series materials are arranged chronologically.

BIOGRAPHICAL NOTE

Dr. Stuart Mudd (1893-1975) and his wife, Dr. Emily Hartshorne Mudd (1898-1998) were two outstanding members of the University of Pennsylvania faculty. A world-renowned microbiologist hailed for his work in freeze-drying blood plasma and combating patient infections in hospitals, Dr. Stuart Mudd served the Medical School's Pathology Department, as Chairman of the Bacteriology Department, as Chairman of the Microbiology Department, and as Chief of the Microbiologic Research Program at the Philadelphia Veterans Administration Hospital. He held a bachelor of

science degree from Princeton University (1916), a Master of Arts degree from Washington University (1918), and a M.D. from Harvard (1920). He also attended the Graduate School of Arts and Sciences 1933-1934 at Pennsylvania. Dr. Stuart Mudd retired from the Medical School faculty in 1959 and spent the remainder of his career at the Philadelphia Veterans Administration Hospital. His research accomplishments are chronicled in some 200 papers and several books which he edited. He was also involved in efforts to control world population and other international problems.

Dr. Emily Hartshorne Mudd served as the founder and Director of the Marriage Council of Philadelphia, the consulting editor of the Kinsey Report on the Human Female, the President of the America Association of Marriage Counselors in 1952, and as Professor of Family Study in the Department of Psychiatry of the University of Pennsylvania. She graduated from the Lowthorne School of Architecture in 1921, earned a Master's Degree from the University of Pennsylvania School of Social Work in 1936 and a Doctorate in 1950 in sociology, majoring in the family. Dr. Emily H. Mudd was instrumental in founding Planned Parenthood Association of Philadelphia, and was responsible for the 1955 affiliation between the Marriage Council of Philadelphia and the Department of Psychiatry at Penn. She was the author and co-author of more than 200 professional and popular articles and books.

SCOPE AND CONTENT

This collection contains assorted published articles by both Stuart and Emily Mudd largely in the form of journal articles or offprints of journal articles. Dr. Stuart Mudd's writings range in date from 1919 - 1974, and Dr. Emily Mudd's writings range in date from 1932 - 1980. Also contained in this collection are articles about Emily Mudd, and joint writings by Emily and Stuart Mudd.

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INVENTORY

WRITINGS OF EMILY HARTSHORNE MUDD	Box	Folder
1932: "Is Preventative Work the Next Step?"	1	1
1933: "Clinical Service in Germany"	1	2
1935: "Has the Marriage Counsel a Place in Community Activity?"	1	3
1936: "Marriage Counsel of Philadelphia," "The Relation of Marriage Counsel to the Maternal Health Center," "Some Aspects of Counseling in a Marriage and Family Consultation Service"	1	4
1937: "An Analysis of One Hundred Consecutive Cases in the Marriage Counsel of Philadelphia," "Young People and Marriage," "Youth and Marriage"	1	5
1938: "Marriage Counseling As Afforded by Recently Developed Marriage and Family Counseling Clinics," "Use and Misuse of Books in Counseling"	1	6
1939: "The Premarital Interview, an Interpretation of Professional Attitudes and Procedures"	1	7
1940: "Cooperative Project in Marriage Counseling," "Development of Marriage Counsel of Philadelphia as a Community Service, 1932-1940," "Information and Attitude, Their Relation to Counseling Procedures in Sexual Adjustment"	1	8
1940: "Report of Committee on Marriage and Family Counseling"	1	8
1941: "Marriage Problems in Relation to Selective Service," "Premarital Counseling in the Philadelphia Marriage Counsel," "Sex Education for the Married Couple"	1	9

1945: "Counseling, A Philosophy and Method," "Some Effects of the War on Young Women"	1	10
1946: "Growing Up in the World Today - Attitudes Toward Sex Education and Personality Development," "Women's Conflicting Values"	1	11
1947: "The Family in the Soviet Union"	1	12
1949: "The ABC's of Marriage Counseling," "Will They Be Ready for Marriage?"	1	13
1950: "A Decade of Group Counseling," "Effects on Casework of Obtaining Research Material," "Some Results From Research at Marriage Council of Philadelphia," "Survey of a Research Project in Marriage Counseling"	1	14
1951: "Marriage Counseling"	1	15
1952: "The Marriage Council"	1	16
1953: "Anticipated Development of Case From Content of First Interview Record," "Can One Partner Be Successfully Counseled Without the Other?," "The Social Worker's Function in Divorce Proceedings"	1	17
1954: "Protesting Methods for Follow-Up to Validate Measures of Movement in Casework"	1	18
1955: "Counselor's Attitudes Toward Technical Aids to the Counseling Practice," "Medical School Electives on Family Attitudes, Sexual Behavior, and Marriage Counseling," "Pinpoint Impressions on Family Living in Japan," "Psychiatry and Marital Problems"	1	19
1955: "Research and Service in Social Work, Conditions for a Stable Union," "Woman's Finest Role"	1	19
1956: "Memorandum on Strengthening Family Life in U.S."	1	20
1957: "Anxieties Associated With the Conduct of Research in a Clinical Setting," "The Development of a Research Methodology for Achieving the Cooperation of Alcoholics and their Nonalcoholic Wives," "Knowns and Unknowns in Marriage Counseling Research"	1	21
1957: "Some Theoretical and Practical Problems in Evaluating Effectiveness of Counseling"	1	21

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1958: "After College What," "The American Family," "Communicating and Understanding," "The Interrelatedness of Alcoholism and Marital Conflict," "Problems of Young People in Love"	1	22
1959: "Recurring Problems in Marriage Counseling"	1	23
1960: "When the Young Marry Too Young"	1	24
1961: "An Experiment in Marriage Counseling by Three New Jersey Churches," "Paired Reports of Sexual Behavior of Husbands and Wives in Conflicting Marriages"	1	25
1962: "Areas of Marital Conflict in Successfully and Unsuccessfully Functioning Families," "Mental Health Teaching in Professional Education"	1	26
1963: "Marital Problems and Marital Adjustment"	1	27
1964: "American Women and Their Work," "Changing Role of the American Family," "Concepts of Marital Diagnosis and Therapy as Developed at the Division of Family Study...," "Marriage Counseling Instruction in a Medical School"	1	28
1965: "Counseling Couples in Conflicting Marriages"	1	29
1966: "Community Psychiatry Integration of Medical and Non-medical Community Resources," "Experts View the Doctor as a Family Man," "Indications for Marriage Counseling Methods and Goals"	1	30
1966: "Lawyers and Social Workers: Collaborators or Competitors in Resolving Marital Conflict?," "Memoir of Lovett Dewees, 1880-1965"	1	30
1967: "American Association of Marriage Counselors The First 25 Years," "How Doctors Can be Better Fathers"	1	31
1968: "The Effect of Parenthood on Marriage," "The Effects of Suicidal Behavior Upon Marriage and the Family," "The Exploration of Methods to Reduce Broken First Appointments," "Marriage Counseling with Alcoholics and their Spouses..."	1	32
1968: "The Need for Evaluation," "Roundtable: Frigidity," "What's Happened to Femininity in the U.S.?"	1	32
1969: "Theological Education, Issues, Settings, and Process in Education for Ministry"	1	33
1970: "How Frequently is Sex an Important Factor in Divorce?"	1	34

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1971: "Attitudes of Black Women and Men Toward Using Community Services," "Ideas and Actions, Psychosexual Response and Attitudes Toward Family Planning," "Women's Conflicting Values in Relation to Marriage," "Youth and Population"	1	35
1972: "What Has Been the Most Important Innovation in the Field of Sexuality in the Past 30 Years?," "Sexual Problems and Psychologic Disturbance," "Report of the Pennsylvania Abortion Law Commission"	1	36
1973: "Criticism of Masters and Johnson Therapy," "List of Reprints and Books - 1932-1958, Marriage Council of Philadelphia," "Marriage Counseling Since Pearl Harbor"	1	37
1973: "One Hundred Pregnant Adolescents, Treatment Approaches in a University Hospital," "Population, Health and Family," "Training Dual Sex Teams for Rapid Treatment of Sexual Dysfunction"	1	37
1974: "Changing Attitudes Toward Sexual Mores and Behavior, Their Effect on Premarital and Marital Counseling"	1	38
1975: "Mankind, Its Numbers, Health and Family Arrangement," "Marriage Counseling and The Related Professions," "Teenagers, Contraception and Pregnancy"	1	39
1976: "The AAMC and AAMFC: Nearly Forty Years of Form and Function"	1	40
1977: "Financial Tips that can Save Your Marriage," "The Historical Background of Ethical Considerations in Sex Research and Sex Therapy"	1	41
1978: "Adolescent Health Services and Contraceptive Use"	1	42
1979: "The Family -- Critical Issues Facing Institutions of Medicine"	1	43
1980: "The Couple As a Unit -- Sexual, Social and Behavioral Considerations to Reproductive Barriers"	1	44
No Date: "Have Knowledge and Freedom Brought Greater Happiness to the Home?," "How to Help Your Parents With Marital Problems," "Marriage Counseling," "Thoughts on the Sociological and Psychological Aspects of Abortion," "When Your Man Comes Home"	1	45
WRITINGS ABOUT EMILY HARTSHORNE MUDD	Box	Folder
1973: The Baldwin Echoes, 1973 Alumnae Association Award; Health Affairs, Spring, 1973, "Love and Microbes"; Also: miscellaneous papers	1	46

JOINT WRITINGS OF EMILY AND STUART MUDD	Box	Folder
1925: On the Surface Composition of Normal and Sensitized Blood Cells; 1947: Medical Mission to Moscow, Soviet Medicine and Family Relations	1	47
1955: Schedule and Resumes of the Communications of the Foreign Participants at XIV Japan Medical Congress: Stuart Mudd: Light and Electron-Microscopic Studies on the Replication of Bacteriophages;	1	47
1955: E. H. Mudd: Psychiatry and Marital Problems - Mental Health Implications	1	47
1966: Conflict Resolution and World Education (edited by Stuart Mudd); Conflict and Conflict Resolution in Families (written by E. H. Mudd)	1	47
WRITINGS OF STUART MUDD	Box	Folder
1919: "An Experimental Study of a Possible Mechanism for Excitation of Infections of the Pharynx and Tonsils"	1	48
1921: "Reactions of the Nasal Cavity and Postnasal Space to Chilling of the Body Surface I. Vasomotor Reactions," "II. Concurrent Study of Bacteriology of Nose and Throat," "Vasomotor Reactions of the Nasal Cavity and Post-Nasal Space to Chilling.."	1	49
1923: "Experiments on the Migration of Bacteria"	1	50
1924: "The Penetration of Bacteria Through Capillary Spaces"	1	51
1925: "Electroendosmosis Through Mammalian Serous Membranes, I. Hydrogen Ion Reversal Point With Buffers Containing Polyvalent Anions," "II. Comparison of Hydrogen Ion Reversal Points With Acetate and Citrate - Phosphate Buffers"	1	52
1926: "Electroendosmosis Through Mammalian Serous Membranes, III. The Relation of Current Strength and Specific Resistance to Rate of Liquid Transport. Transport rate with Serum"	1	53
1927: "An Improved Arrangement for Bacteria- Retaining Filters," "Methods of Studying the Surfaces of Living Cells"	1	54
1929: "Effect of Echinid Egg-Waters on the Surface Potential Difference of the Sperm"	1	55

1930: "The Relation of Washed Granules from Commercial Vaccine to the Virus"	1	56
1931: "The Deformability and the Wetting Properties of Leucocytes and Erythrocytes"	1	57
1933: "Modification of Antibodies by Formaldehyde," "The Physical Chemistry of Bacterial Agglutination and Its Relation to Colloidal Theory"	1	58
1934: "Sensitization of Bacteria with Normal and Immune Human Serum"	1	59
1935: "Paradoxical Relation Between Zeta Potential and Suspension Stability in S and R Variants of Intestinal Bacteria"	1	60
1936: "The Mechanism of Inactivation of Mercurial Antiseptics by Serum, and Its Implications Regarding the Possibility of Intravenous Antiseptics," "The Philadelphia and Alaska Strains of Influenza Virus"	1	61
1937: "Apparent Antigenicity of Plastein," "Labile Bacterial Antigens and Methods of Preparing and Preserving Them," "Labile Bacterial Antigens and Methods for their Preparation and Preservation"	1	62
1937: "A Low Temperature Ball-Mill for the Liberation of Labile Cellular Products"	1	62
1938: "A Stable Hemolysin-Leucocidin and its Crystalline Derivative Isolated from Beta Hemolytic Streptococci"	1	63
1939: "The Antigenic Structure of Hemolytic Streptococci of Lancefield Group A, " "The Immunochemistry of Streptococcus Pyogenes"	1	64
1940: "The Antigenic Structure of Hemolytic Streptococci of Lancefield Group A," "Histopathological Changes Produced in Rabbits by Experimental Inoculation With Hemolytic Streptococci and Certain of Their Component Factors"	1	65
1941: "Blood and Blood Substitutes in the Treatment of Hemorrhage, Secondary Shock and Burns," "Serological Reactivity of Nucleic Acid"	1	66
1942: "Air-Borne Infection and Experimental Air-Borne Disease," "Bacterial Morphology as Shown by the Electron Microscope"	1	67
1942: "Large Scale Desiccation of Blood Substitutes from the Frozen State: A Comparison of Currently Available Types of Equipment," "Plasma and Serum As Blood Substitutes"	1	67

1942: "Recapitulation and Outlook," "The Tolerance of Rabbits for the Agglutination and the Toxins of Hemophilus Pertussis"	1	67
1943: "Bacterial Morphology as Shown by the Electron Microscope," "Germicides and Antibacterial Agents," "Internal Structure of Certain Bacteria as Revealed by the Electron Microscope"	1	68
1943: "The Pneumococcal Capsular Swelling Reaction," "Recent Advances in the Control of Air-Borne Infection"	1	68
1944: "Cultural Interchange between the Soviet Union and the United States," "Current Progress in Sterilization of Air," "Examination of Germicides and Antibacterial Agents"	1	69
1944: "Pathogenic Bacteria, Rickettsias and Virus as Shown by the Electron Microscope"	1	69
1945: "The Action of Synthetic Detergents Upon Certain Strains of Bacteriophage and Virus," "Bacterias, Rickettsias y Virus Patogenos Demostrables con el Microscopio Electronico"	1	70
1945: "Can Chemotherapy be Extended to Include the Intracellular Disease Agents?"	1	70
1947: "Programs for Medicine and National Health in the USSR," "Recent Observations on Programs for Medicine and National Health in the USSR," "The "Survival Value" of Science"	1	71
1948: "Henry E. Sigerist - His Interest in Soviet Medicine," "Responses of Human Subjects to Vaccines in Saline-in-Mineral Oil Emulsion"	1	72
1948: "Specific Means for Estimation of Susceptibility to Whooping Cough and for its Prevention, Diagnosis and Treatment," "Submicroscopic Structure of the Bacterial Cell, as Shown by the Electron Microscope"	1	72
1949: "Electron Microscope in Relation to the Medical Sciences," "Electromicroscopic Visualization of Bacteria," "Internal Structure and Nuclei in Cells of Escherichia Coli as Shown by Improved Electron Microscope Techniques"	1	73
1950: "Electron and Light Microscopic Studies of Bacterial Nuclei, I. Adaptation of Cytological Processing to Electron Microscopy, Bacterial Nuclei as Vesicular Structures"	1	74
1950: "III. The Nuclear Sites in Metal-Shadowed Cells of Escherichia Coli," "Electron Microscope Studies of Bacterial Nuclei. "Fixation" of the Specimen in the Electron Beam"	1	74

1950: "The Fixation of Electron Microscopic Specimens by the Electron Beam," "The Morphological Characteristics of Paired Sulfonamide-Susceptible and Sulfonamide-Resistant Strains of Staphylococcus Aureus"	1	74
1951: "The Discovery of Mitochondria in Bacteria," "Further Evidence of the Existence of Mitochondria in Bacteria," "Micrococcus Cryophilus, Spec. Nov.; A Large Coccus Especially Suitable for Cytologic Study"	1	75
1951: "The Occurrence of Mitosis in the Vegetative Phase of Bacillus Megatherium"	1	75
1952: "Current Status of the Bacterial Nucleus," "The Cytology of the Tubercle Bacillus with Reference to Mitochondria and Nuclei," "The Mitochondria and Nuclei of Mycobacteria"	1	76
1953: "A Cytological Investigation of the Mitochondria of Three Strains of Salmonella Typhosa," "A Cytology of the Tubercle Bacillus with Reference to Mitochondria and Nuclei," "Evidence of the Existence of Mitochondria in Proteus"	1	77
1953: "Light and Electron Microscopic Studies of Escherichia Coli-Coliphage Interactions, I. Preparative Method," "III. Persistence of Mitochondria and Reductase Activity...," "The Microbiologic Agents of Infectious Disease," "The Mitochondria of Bacteria"	1	77
1953: "A Note Concerning Bacterial Cell Walls, Mitochondria and Nuclei," "Trends and Perspectives of Bacterial Cytology," "The Use of Neotetrazolium Chloride in Cultures of Tubercle Bacilli"	1	77
1954: "Cytology of Bacteria," "The Differentiation of Nuclei and Cytoplasmic Organelles in Bacteria," "Specialized Mitochondria in Corynebacterium Diphtheriae"	1	78
1955: "Azaserine as an Inducing Agent for the Development of Phage in the Iysogenic Escherichia Coli, k-12," "Cytological Analysis of Ultraviolet Irradiated Escherichia Coli"	1	79
1955: "Cytological Sequences Following Ultraviolet Irradiation of Escherichia Coli," "Cytological Study of Caryophanon Latum," "The Cytology of a Strain of Corynebacterium Diphtheriae," "The Differentiation of Mitochondria in Strains of Cocci"	1	79
1955: "Light and the Electron-Microscopic Studies of the Replication of Bacteriophages," "The Role of Science in the West"	1	79
1956: "Cellular Organization in Relation to Function," "Cytological Analysis of Ultraviolet-Irradiated Escherichia Coli," "Cytological	1	80

Effects of Ultraviolet Radiation and Azaserine on Corynebacterium
Diphtheriae"

1956: "Cytological Reactions of Escherichia Coli, Strain B, and its Mutants Resistant to Ultraviolet Radiation," "Electron-Scattering Granules and Reducing Sites in Mycobacteria," "Factors Conditioning the Accumulation and Disappearance of Metaphosphate"	1	80
1957: "Changes in the Composition and Morphology of Bacillus Megaterium Grown on Nitrogen Deficient Medium," "Clues to the Rational Preparation of Anti-bacterial and anti-viral agents"	1	81
1957: "Contrasting Morphology of B. Megaterium Under Different Nutritional Conditions," "Reducing Sites in Bacterial Cells of the Anaerobic Genus Clostridium and their Differentiation from other Cell Structures"	1	81
1958: "Polyphosphate as Accumulator of Phosphorous and Energy," "Spore Germination and Spirogenesis in Bacillus Megaterium," "Staphylococic Infections in the Hospital and Community," "Sterile Technique in Professional Service Departments"	1	82
1959: "Plasma Membranes and Mitochondrial Equivalents as Functionally Coordinated Structures," "The Staphylococcus Problem, reprints, from Scientific American"	1	83
1960: "Arthur Park Hitchens Lecture Fund," "Demonstration of Extracellular Material Associated with a Strain of Staph. Aureus," "Morphological Changes of Lactobacillus bifidus var. Pennsylvanicus Produced by a Cell-Wall Precursor"	1	84
1960: "The Predictability of Enhancing Specific Resistance of Staph. Infection," "Spheroidal Forms of Bacillus Megaterium Induced by Potassium Tellurite," "Virulence and Coagulases of Staph. Aureus"	1	84
1961: "Concerning the Surfaces of Cells of Staph. Pyogenes," "Cytopathogenic Effect of Staph. Filtrates on Human Cells in Tissue Culture: Neutralization with Immune Sera"	1	85
1961: "Plasma Membranes and Mitochondrial Equiv. as Functionally Co-ordinated Structures," "Relationship of Some Extracellular Enzymes of Staph. Aureus to Nutritional Conditions"	1	85
1962: "Dissociation of Phagocytosis and Intracellular Killing of Staph. Aureus by Human Blood Leukocytes," "Emerging Sophistication in Micro. Research," "Epidemiology and Treatment of Chronic Staph. Infections in the Household"	1	86

1962: "Interaction of Human Sera with Various Serotypes of Staph. Pyogenes," "The Internal Organization of the Mycobacterial Cell," "Nonmucoid mutant of the Encapsulated Smith Strain of Staph. Aureus"	1	86
1962: "Partial Protection of Mice by Human Gamma-Globulin Against Staph. Aureus on Subcutaneous Sutures," "Review of Science and the Future of Mankind," "Specific Resistance to Staph.," "Staph. Disease: Imperfectly Understood Aspects"	1	86
1962: "Titrations of Antibodies Against Haemolysin and the Components of Staph. Leucocidin in Human Subjects Following Immunization"	1	86
1963: "Changing Nature of Infectious Agents," "Common Protein Agglutinin of Staph. Aureus I. Distribution in International Serotypes and Corresponding Antibody in Human Populations"	1	87
1963: "II. Purification, Chemical Characterization, and Serologic Comparison with Jensen's Antigen," "Identification of a Somatic Antigen of Staph. Aureus Critical for Phagocytosis by Human Blood Leucocytes"	1	87
1963: "Phagocytosis and Killing Staph. Aureus by Human Blood Leucocytes," "Role of Alpha Toxin in Lesion Formation by Staph. Aureus on Sutures Subcutaneously Implanted in Mice"	1	87
1964: "Global Impacts of Applied Microbiology," "Phagocytosis and Intracellular Killing of Staph. Aureus," "Too Many People"	1	88
1965: "The Antigenicity in Man of Staph. Leucocidin Toxoid," "Capsulation, Pseudocapsulation, and the Somatic Antigens of the Surface of Staph. Aureus," "Carbohydrate Components of the Culture Filtrate of Staph. Aureus"	1	89
1965: "The Heat-Labile Serum Factor Associated with Intracellular Killing of Staph. Aureus," "Interaction of Viscid Material of Staph. Aureus with Specific Immune Serum"	1	89
1966: "Features of a World Capable of Achieving Peace Under Law," "Immunologically Active Cell Wall Peptide Polymer From Culture Filtrates of Staph. Aureus"	1	90
1966: "Reconstitution Extracellularly of Killing Staph. Aureus by Serum and Leucocytic Granule Extract," "Role of Serum in Intracellular Killing of Staph. In Rabbit Monocytes"	1	90
1966: "Serum Effect on the Killing of Staph. Aureus by Human Leukocytic Extracts"	1	90

1967: "Electron Microscopy of the Combination Antibodies with Flagellar Antigen and with a Pyocine," "The Immunologically Active Cell Wall Peptide Polymer of Staph. Aureus"	1	91
1967: "Studies on the Carbohydrate-Peptide Fraction of the Centrifugal Supernatants of Staph. Aureus Cultures"	1	91
1968: "Delayed Hypersensitivity to Staph. Aureus in Mice and Men," "Effect of the Nutritional Environment on the Development of Resistance to Polymyxin B in Pseudomonas Aeruginosa and Its Prevention by Atabrine"	1	92
1968: "Staph. Delayed Hypersensitivity in Mice I. Induction and In Vivo Demonstration of Delayed Hypersensitivity," "II. In Vitro Demonstration and Specificity of Delayed Hypersensitivity"	1	92
1968: "A Successful Parasite: Parasite-Host Interaction in Infection by Staph. Aureus," "Surgical Forum"	1	92
1969: "Absorption of Serum with Staph. Cell Wall Components," "Forward to Volume VI of World Academy of Art and Science Newsletter," "Resistance to Vaccinia in Tuberculin-Hypersensitive Mice"	1	93
1969: "Sequences in Medical Microbiology. Some Observations over Fifty Years"	1	93
1970: "Atabrine As an Adjuvant in Chemotherapy of Urinary Tract Infections," "Cell Wall Component which Affects the Ability of Serum to Promote Phagocytosis and Killing Staph. Aureus"	1	94
1970: "Delayed-Type Hypersensitivity to Staph. Aureus in Human Subjects," "The Gratia Polyvalent Staph. Bacteriophage," "Immunologically Induced and Elicited Local Resistance to Staph. Aureus"	1	94
1970: "Prevention of Resistance to Diethylstilbestrol in Staph. Aureus by Coumadin"	1	94
1971: "Protection by Intraperitoneal Vaccination with a Ribosomal Preparation against Intravenous Challenge with Pseudomonas Aeruginosa in Mice"	1	95
1971: "Prevention of Antibiotic Resistance in Vitro in Staph. Aureus, Escherichia Coli, and Pseudomonas Aeruginosa by Coumadin," "Resistance Against Staph. Aureus," "The Staph. Capability of Rabbit Macrophages"	1	95

1972: "Staph. Capability of Rabbit Peritoneal Macrophages in Relation to Infection and Elicitation: Delayed Type Hypersensitivity Without Increased Resistance"	1	96
1973: "Cell-Mediated Immunity in Mice Infected with Staph. Aureus and Elicited with Specific Bacterial Antigens," "Efficacy of Ribosomal Preparations from Pseudomonas Aeruginosa to Protect Against Intravenous Pseudomonas Challenge in Mice"	1	97
1973: "Lack of Detectable Circulating Interferon in Mice Against Vaccinia Virus by Induction and Elicitation with Bacterial Systems"	1	97
1973: "Protection of Mice Against Virus by Bacterial Infection and Sustained Stimulation with Specific Bacterial Antigens"	1	97
1974: "Delayed-Type Hypersensitivity to S. Aureus and its Uses," "Specific and Nonspecific Cell-Mediated Resistance to Influenza Virus in Mice"	1	98
1945 - (author unknown): Article Entitled "Germs, Medical Science Helps the Body in its Fight Against Six Great Groups of Them," from Life magazine	1	99