

Table of Contents

Advisors and Contributors	xv
Acknowledgements	xvii
About the Set	xxiii
Introduction	xxv
About the Entry	xxvii
Using Primary Sources	xxxiii
Chronology	xxxv

1 BIOMEDICAL SCIENCE

Introduction to Biomedical Science	1
<i>The Lancet</i>	2
<i>Thomas Wakley, 1823</i>	
Head and Upper Body	4
<i>Francesco C. Antommarchi, 1826</i>	
Rabies Vaccination in Pasteur's Clinic in Paris	9
<i>Laurent-Lucien Gsell, 1887</i>	
Letter to Lord Chamberlain Hugo Radolinski	11
<i>Rudolf Virchow, 1888</i>	
Hand with Ring	13
<i>Wilhelm Conrad Roentgen, 1895</i>	
This Day Relenting God	15
<i>Ronald Ross, 1923</i>	
Robert Koch Identifies the Bacteria That Cause Anthrax, Tuberculosis, and Cholera	17
<i>K. A. H. Mörner, 1905</i>	

The Internal Secretion of the Pancreas	20
<i>Frederick Grant Banting and Charles Herbert Best, 1922</i>	
On Individual Differences in Human Blood	23
<i>Karl Landsteiner, 1930</i>	
A Strong Nation Is a Healthy Nation	26
<i>N. H. Heiligman, 1940</i>	
A Structure for Deoxyribose Nucleic Acid	29
<i>James Dewey Watson and Frances Harry Compton Crick, 1953</i>	
Patient Undergoing a CT Scan	32
<i>Anonymous, 1978</i>	
Louise Brown and Her Parents	34
<i>Ray Foli, 1979</i>	
<i>Pneumocystis</i> Pneumonia—Los Angeles	35
<i>Michael S. Gottlieb, et.al., 1981</i>	
Köhler and Milstein Develop Monoclonal Antibodies	39
<i>Hans Wigzell, 1984</i>	
Baby Fae Loses her Battle	41
<i>Claudia Wallis, 1984</i>	
The Promise of Prozac	45
<i>Geoffrey Cowley, 1990</i>	
Animals and Medical Science: A Vision of a New Era	49
<i>David O. Wiebers, 1994</i>	
Chorionic Villus Sampling and Amniocentesis	54
<i>Richard S. Olney, 1995</i>	
Prions: Newly Identified Infectious Agent	57
<i>Ralf F. Pettersson, 1997</i>	
Zoonosis	60
<i>Karen Kasmauski, 2000</i>	
The Sequence of the Human Genome	61
<i>John Craig Venter, 2001</i>	
Gene Therapy: Promises and Problems	65
<i>Alexander Pfeifer and Inder M. Verma, 2001</i>	
What the Heck Is Antibiotic Resistance?.	67
<i>John C. Brown, 2002</i>	
Stem Cells: Scientific Progress and Future Research Directions	72
<i>Ruth L. Kirchstein and Lana Skirboll, 2001</i>	
He Never Gave Up	75
<i>Jeffrey Klugar, 2004</i>	
Eulogy for Mattie Stepanek	78
<i>Jimmy Carter, 2004</i>	
Can Gene-Altered Rice Rescue the Farm Belt?	82
<i>Alexei Barrionuevo, 2005</i>	

Woman Finds Human Finger in Wendy's Chili	85
<i>Dan Reed, 2005</i>	

2 CLINICAL MEDICINE

Introduction to Clinical Medicine	89
Case II	90
<i>Horton Howard, 1832</i>	
Insensibility During Surgical Operations Produced By Inhalation	91
<i>Henry J. Bigelow, 1846</i>	
<i>The Premature Burial</i>	95
<i>Antoine Joseph Wiertz, 1854</i>	
Conditions at Bellevue Hospital	97
<i>Anonymous, 1860</i>	
Antiseptic Surgery	100
<i>W. Watson Cheyne, 1882</i>	
Surgeon Amos Walker Barber, Wyoming Territory	103
<i>Anonymous, circa 1890</i>	
Rules for the Prevention of Cholera	106
<i>Anonymous, 1892</i>	
Radiation Used to Treat Tumors	110
<i>Emil H. Grubbe, 1902</i>	
Origin and Development of Psychoanalysis, First Lecture	113
<i>Sigmund Freud, 1909</i>	
Reliable Quinine	116
<i>Anonymous, 1910</i>	
Postoperative Insanity	118
<i>John Chalmers Da Costa, 1922</i>	
Psychological Consultation Report: Mrs. White and Miss Black	120
<i>Corbett H. Thigpen and Hervey C. Cleckley, 1952</i>	
Implementation of the Program	124
<i>Douglas B. McKendrick, 1964</i>	
Operation: November 29, 1944	126
<i>Alfred Blaylock, 1944</i>	
Matthew's New Marrow	129
<i>Matt Clark, 1976</i>	
Cholesterol and Heart Disease	131
<i>Nobel Assembly at the Karolinska Institute, 1985</i>	
A Developmental Model of Ethnosensitivity in Family Practice Training	136
<i>Jeffrey M. Borkan and Jon Neher, 1991</i>	
Outbreak of Ebola Viral Hemorrhagic Fever—Zaire, 1995	139
<i>Centers for Disease Control and Prevention, 1995</i>	
Withdrawing Intensive Life-sustaining Treatment	142
<i>Howard Brody, 1997</i>	

End-of-Life Issues	147
<i>Frederick Flatow, 1998</i>	
Lasers and Fiber Optics Enable Microsurgery and Keyhole Surgery	150
<i>Robert J. Herko, 2000</i>	
BSE Inquiry: The Report, Executive Summary, Key Conclusions	152
<i>Committee of the BSE Inquiry, 2000</i>	
A Revised System for Reporting Pap Test Results	155
<i>Caroline McNeil and Nicole Gottlieb, 2002</i>	
Amy's Story—Anorexia	159
<i>Amy, 2002</i>	
X Ray of the Lungs of a Coal Miner	163
<i>Chuck Nacke, 2003</i>	
Trends and Results for Organ Donation and Transplantation in the United States, 2004	166
<i>Scientific Registry of Transplant Recipients, Organ Procurement and Transplantation Network, 2004</i>	
Guide to Children's Dental Care in Medicaid	169
<i>Department of Health and Human Services, 2004</i>	
Balancing Act: The Health Advantages of Naturally-Occurring Hormone Replacement Therapy	173
<i>Barbara Iving, M.D., 2004</i>	
Kryptonite	177
<i>Amy Baird, 2004</i>	
Telemedicine	180
<i>Jasemian Yousef, 2005</i>	

3 WAR AND MEDICINE

Introduction to War and Medicine	185
Disqualifying Diseases	186
<i>Theodoric Romeyn Beck, 1823</i>	
A Doctor's Memories	189
<i>Victor C. Vaughan, 1926</i>	
Circular Letter No. 36	191
<i>Lieutenant Colonel Earle G. G. Standlee, 1944</i>	
Medical Intelligence	196
<i>Robert S. Anderson, 1969</i>	
Sorting of Casualties	198
<i>U.S. Department of Defense, 1975</i>	
Anthrax as a Biological Weapon: Medical and Public Health Management	201
<i>Thomas V. Inglesby, 1999</i>	
Médecins Sans Frontières (Doctors Without Borders)	203
<i>Lionel Healing, 2006</i>	

4 INDUSTRY AND MEDICINE

Introduction to Industry and Medicine	207
Elizabeth Blackwell, First Female Physician	208
<i>Charles Alfred Lee, 1849</i>	
Age First Premarital Petting	210
<i>Alfred C. Kinsey, 1979</i>	
Gentlemen of the Class of 1878	214
<i>James Summerville, 1983</i>	
Nightingale Home and Training School for Nurses, St. Thomas Hospital	217
<i>Anonymous, circa 1890</i>	
Bayer Pharmaceutical Products	220
<i>Anonymous, 1900</i>	
<i>The Jungle</i>	223
<i>Upton Sinclair, 1906</i>	
The Flexner Report	227
<i>Abraham Flexner, 1910</i>	
State Registration of Trained Nurses	230
<i>William Henry Welch, 1903</i>	
Letter by Dr. A. S. Calhoun to Franklin D. Roosevelt.	232
<i>Archie S. Calhoun, 1937</i>	
Private Health Insurance Originates with Blue Cross and Blue Shield.	233
<i>Blue Cross Blue Shield Association, 1954</i>	
President Lyndon Johnson Signs Medicare Bill	236
<i>Lyndon Baines Johnson, 1965</i>	
The Belmont Report	238
<i>U.S. Department of Health, Education, and Welfare, 1979</i>	
Product Tampering	243
<i>Anonymous, 1982</i>	
Helicopter Rescue of Air Crash Victims	245
<i>Anonymous, 1982</i>	
Is there a Doctor in the House?	247
<i>Anonymous, 1986</i>	
Shaman Loses Its Magic	249
<i>Anonymous, 1999</i>	
Medical Tourism Companies Luring Americans Abroad with Surgery-Vacation Trips	252
<i>Maria M. Parotin, 2004</i>	
America, Pull Up A Chair—We've Got Something Good to Talk About	255
<i>Centers for Medicare & Medicaid Services, 2005</i>	

E-mail from Hurricane Katrina.	260
<i>James T. Montgomery, 2005</i>	

5 PUBLIC HEALTH

Introduction to Public Health	265
John Snow's Map.	266
<i>John Snow, 1854</i>	
Immigrant Girl Receives Medical Exam at Ellis Island	268
<i>Anonymous, 1905</i>	
AAAS Resolution: Death of Dr. James Carroll from Yellow Fever Experimentation	270
<i>American Association for the Advancement of Science, 1907</i>	
Report on Condition of Women and Child Wage-Earners in the United States	272
<i>Charles P. Neill, 1912</i>	
Typhoid Mary Has Reappeared	274
<i>Anonymous, 1915</i>	
Sanitation	276
<i>William Osler, 1921</i>	
Preliminary Survey and Current Data.	279
<i>Alabama Department of Public Health, 1937</i>	
March of Dimes	282
<i>Anonymous, 1946</i>	
Constitution of the World Health Organization, Chapters I and II	284
<i>World Health Organization, 1947</i>	
On the State of Rural Hygiene	287
<i>Florence Nightingale, 1893</i>	
Thalidomide and Congenital Abnormalities	291
<i>W. G. McBride, 1961</i>	
Famine and Public Health.	293
<i>Dempster, 1970</i>	
Has Your Child Had a Lead Test Yet?	295
<i>U.S. Department of Health, Education, and Welfare, 1970</i>	
President Nixon Declares "War" on Drugs	297
<i>Richard M. Nixon, 1971</i>	
Marlboro Man; Bob, I've Got Emphysema	300
<i>Robert Landau, 1976; Scott Houston, 2000</i>	
Ali Maow Maalin Survives the Last Endemic Smallpox Case	303
<i>Anonymous, 1979</i>	
Camp Devens Letter	306
<i>Roy, 1918</i>	

Immunization Campaigns	310
<i>California Department of Health Services, circa early 1980s</i>	
Community Mental Health Centers Construction Act of 1989	313
<i>Library of Congress, 1989</i>	
A Hand and a Home for Pregnant Addicts	317
<i>Dennis Wyss, 1989</i>	
The Clean Air Act, Title 1: Air Pollution Prevention and Control	320
<i>Anonymous, 1990</i>	
Motor Vehicle Safety and Public Health	322
<i>Tim Wright, 1998</i>	
Pasteurization and Aseptic Processing	325
<i>U.S. Food and Drug Administration, 2001</i>	
Bioterrorism at the Salad Bar	328
<i>Bill Frist, 2002</i>	
Priority Traffic Safety Laws	330
<i>MADD (Mothers Against Drunk Driving), 2003</i>	
Carrier of SARS Made Seven Flights Before Treatment	333
<i>Keith Bradsher, 2003</i>	
For a Few Pennies More	338
<i>Television Trust for the Environment, 2004</i>	
Drug Recalls	341
<i>David J. Graham, 2004</i>	
Alps Still Contaminated by Radiation from Chernobyl	343
<i>Maryann DeLeo, 2004</i>	
World Water Crisis	346
<i>Issouf Sanogo, 2005</i>	
Fluoridation of Drinking Water to Prevent Dental Caries	347
<i>Centers for Disease Control and Prevention, 1999</i>	
Water, Sanitation Key to Disaster Response, Long-Term Development	351
<i>Erica Bulman, 2005</i>	
The Initial Assessment: A Quick Checklist	353
<i>UNICEF, 2005</i>	
Memories of Polio	358
<i>Alakananda Mobanty and Martin Pernick, 2005</i>	
Outbreak Notice	361
<i>Centers for Disease Control and Prevention, 2005</i>	

6 WELLNESS AND HEALTH

Introduction to Wellness and Health	365
Not By Bread Alone	366
<i>Harvey Washington Wiley, 1915</i>	

Don'ts in Removing Superfluous Hair	368
<i>Plym S. Hayes, 1910</i>	
Alcoholics and God	370
<i>Morris Markey, 1939</i>	
Conscious Control of our Sex Life	373
<i>J. Rutgers, 1937</i>	
Our Bodies, Ourselves	376
<i>The Boston Women's Health Book Collective, 1976</i>	
A Medical Student in 1867	378
<i>John Allen Wyeth, 1914</i>	
This I Believe	382
<i>Margaret Sanger, 1953</i>	
Remarks on the Youth Fitness Program	384
<i>John F. Kennedy, 1961</i>	
<i>The Complete Book of Running</i>	387
<i>Jim Fixx, 1977</i>	
Americans with Disabilities Act	390
<i>George H. W. Bush, 1990</i>	
A Wake-Up Call	393
<i>Stanley Coren, 1996</i>	
Home Diagnostic Tests: The Ultimate House Call?	395
<i>Carol Lewis, 2001</i>	
Deaths: Preliminary Data for 2003	399
<i>Donna L. Hoyert, et. al., 2005</i>	
Obesity Trends Among U.S. Adults	401
<i>Centers for Disease Control and Prevention, 2004</i>	
America Is Still Working on Its Abs	404
<i>Alex Williams, 2005</i>	
Fresh Faces	408
<i>Sascha de Gersdorff, 2005</i>	

7 ALTERNATIVE MEDICINE

Introduction to Alternative Medicine	413
Yoga and Transcendental Meditation.	414
<i>Genevieve Naylor, 1962</i>	
More People Trying Vegetarian Diets	416
<i>Dixie Farley, 1995</i>	
Consensus Statement on Acupuncture	420
<i>David J. Ramsay, et. al., 1997</i>	
Manipulative and Body-Based Practices: An Overview	425
<i>National Center for Complementary and Alternative Medicine, 2004</i>	

Echinacea Disappoints: There's Still No Cure for the Common Cold	428
<i>Nathan Seppa, 2005</i>	

8 BIOETHICS

Introduction to Bioethics	433
Eugenics and Sex Harmony	434
<i>Winfield Scott Pugh, 1947</i>	
Nuremberg Code Establishes the Principle of Informed Consent	436
<i>Nuremberg Military Tribunal, 1947</i>	
Wilson Memorandum	438
<i>Charles E. Wilson, 1953</i>	
World Medical Association Declaration of Helsinki	440
<i>World Medical Association, 1964</i>	
Survivor of '32 Syphilis Study Recalls a Diagnosis	444
<i>James T. Wooten, 1972</i>	
The Pill: How Is It Affecting U.S. Morals, Family Life?	446
<i>Anonymous, 1966</i>	
<i>Roe v. Wade</i> and the Abortion Debate	450
<i>Henry A. Blackmun, 1973</i>	
On Death and Dying	452
<i>Elisabeth Kübler-Ross, 1969</i>	
Practical Guidelines for Do-Not-Resuscitate Orders	455
<i>Mark H. Ebell, 1994</i>	
The Promised End	459
<i>George J. Annas, 1996</i>	
Tube Is Removed After a Chaotic Day	463
<i>William R. Levesque, Anita Kumar, Chris Tisch, and Graham Brink, 2005</i>	
Remarks by the President on Medical Privacy	466
<i>William Jefferson Clinton, 2000</i>	
Owning Genetic Information and Gene Enhancement Techniques	469
<i>Adam D. Moore, 2000</i>	
Organ Donations Increase When Families Have Good Information about the Donation Process	472
<i>Agency for Healthcare Research and Quality, 2001</i>	
Made-to-order Baby Created in Hopes of Saving Ailing Sister	474
<i>Margaret Taus, 2000</i>	
Screening Creates Disease Free Baby	477
<i>Anonymous, 2002</i>	
Patient Rights and Responsibilities	479
<i>Johns Hopkins Media Relations Staff, 2004</i>	

Human Cloning—Ethical Issues	482
<i>United Nations, 2005</i>	
Monitoring Stem Cell Research	485
<i>President's Council on Bioethics, 2004</i>	
Suffer the Children	488
<i>Kit R. Roane, 2001</i>	
Sources Consulted	493
Index	501