

Quantification and the Quest for Medical Certainty

J. Rosser Matthews

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Teddy Bader



Quantification And The Quest For Medical Certainty:

Quantification and the Quest for Medical Certainty J. Rosser Mathews, 2021-09-14 Since its inception in World War II the clinical trial has evolved into a standard procedure in determining therapeutic efficacy in many Western industrial democracies Its features include a control group of patients that do not receive the experimental treatment the random allocation of patients to either the experimental or control group and the use of blind assessment so that the researchers do not know which patients are in either group Even though it has been only within the past generation that the clinical trial has moved to the forefront of medical research comparative statistics in a therapeutic context has a much longer history From that history J Rosser Mathews chooses to discuss three crucial debates that among clinicians before the Parisian Academy of Medicine in 1837 the debate in the German physiological literature during the 1850s and in the early twentieth century the debate over the bacteriologist s diagnostic technique involving the opsonic index Matthews demonstrates that despite the very real differences separating clinician physiologist and bacteriologist they all shared an antipathy toward the methods of the statistician Since they viewed medical judgment as a form of tacit knowledge they downplayed the concerns of the medical statistician who was attempting to make medical inference into something explicit and quantitative Only when medical decision making moved from the cloistered confines of professional medical expertise into the arena of open political debate could the medical statistician and the clinical trial gain the upper hand

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The Risks of Medical Innovation Thomas Schlich, Ulrich Tröhler, 2006 Presenting a new way of thinking about the risks of medical innovation this volume considers the issues from a social historical

perspective and studies specific cases in their respective contexts Demanding Medical Excellence Michael L. Millenson, 1999 A three time Pulitzer Prize nominee as a health care reporter for the Chicago Tribune illustrates serious flaws in contemporary medical practice and shows ways to improve care and save tens of thousands of lives , Shadow Medicine John S. Haller, Jr., 2014-07-08 Can Evidence Based Medicine EBM and Complementary and Alternative Medicine CAM find common ground A distinguished historian of medicine John S Haller Jr explores the epistemological foundations of EBM and the challenges these conceptual tools present for both conventional and alternative therapies As he explores a possible reconciliation between their conflicting approaches Haller maintains a healthy scientific skepticism yet finds promise in select complementary and alternative CAM therapies Haller elucidates recent research on the placebo effect and shows how a new engagement between EBM and CAM might lead to a more productive medical practice that includes both the objectivity of evidence based medicine and the subjective truth of the physician patient relationship Haller s book tours key topics in the standoff between EBM and CAM how and why the double blinded randomized clinical trial RCT came to be considered the gold standard in modern medicine the challenge of postmodern medicine as it counters the positivism of evidence based medicine and the politics of modern CAM and the rise of the National Center for Complementary and Alternative Medicine He conducts an in depth case study of homeopathy explaining why it has emerged as a poster child for CAM and assesses CAM s popularity despite its poor performance in clinical trials Haller concludes with hope showing how new experimental protocols might tease out the evidentiary basis for the placebo effect and establish a foundation for some reconciliation between EBM and CAM *Evaluating and Standardizing Therapeutic Agents, 1890-1950* C. Gradmann, J. Simon, 2010-04-08 Following the testing of therapeutic sera the quantified evaluation of a pharmaceutical s efficacy became a key feature of medicine in the twentieth century The case studies in this volume offer comparisons across Europe from the diphtheria antitoxin in the late 1800s to the introduction of the Salk polio vaccine in the 1950s Medicating Modern America Andrea Tone, Elizabeth Siegel Watkins, 2007-01-08 With Americans paying more than 200 billion each year for prescription pills the pharmaceutical business is the most profitable in the nation The popularity of prescription drugs in recent decades has remade the doctor patient relationship instituting prescription writing and pill taking as an integral part of medical practice and everyday life Medicating Modern America examines the meanings behind this pharmaceutical revolution through the interconnected histories of eight of the most influential and important drugs antibiotics mood stabilizers hormone replacement therapy oral contraceptives tranquilizers stimulants statins and Viagra All of these drugs have been popular profitable influential and controversial and the authors take a historical approach to studying their development prescription and consumption This perspective locates the histories of prescription medicines in specific cultural contexts while revealing the extent to which contemporary debates about pharmaceutical drugs echo concerns voiced by Americans in the past Exploring the rich and multi faceted history of pharmaceutical drugs in the United States

Medicating Modern America unveils the untold stories behind America's pharmaceutical obsession Contributors include Robert Bud Jennifer R Fishman Jeremy A Greene David Healy Suzanne White Junod Ilina Singh Andrea Tone and Elizabeth Siegel Watkins *Which Treatment Is Best? Spoof or Proof?* Teddy Bader, 2023-02-28 A young woman cries Please don't let me die Has she received the best treatment What is the best treatment How do we know Life threatening disease prompts these questions in everyone Which Treatment Is Best Spoof or Proof explains the best scientific evidence for any treatment the randomized controlled trial This book begins with rotten humors as the source of all diseases The reader is guided through serious attempts in history to treat disease but which now seem amusing The story ends with the randomized controlled trial and how to interpret it The text will help students and clinicians understand this universal language of clinical research worldwide Key Features Describes the development of the randomized controlled trial as the gold standard of proof Unravels the meaning of randomized double blind and p values in a simplified manner for students and clinicians Contains timeless information on how medical evidence can be understood *Colonialism and Transnational Psychiatry* Waltraud Ernst, 2013-10-15 This book focuses on the Ranchi Indian Mental Hospital the largest public psychiatric facility in colonial India during the 1920s and 1930s It breaks new ground by offering unique material for a critical engagement with the phenomenon of the indigenisation or Indianisation of the colonial medical services and the significance of international professional networks The work also provides a detailed assessment of the role of gender and race in this field and of Western and culturally specific medical treatments and diagnoses The volume offers an unprecedented look at both the local and global factors that had a strong bearing on hospital management and psychiatric treatment at this institution

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn *The Tragedy of Childbed Fever* Irvine Loudon, 2000-01-06 Childbed fever was by the far the most common cause of deaths associated with childbirth up to the Second World War throughout Britain and Europe Otherwise known as puerperal fever it was an infection which followed childbirth and caused thousands of miserable and agonising deaths every year This book provides the first comprehensive account of this tragic disease from its recognition in the eighteenth century up to the second half of the twentieth century Examining this within a broad history of infective diseases the author goes on to explore ideas from past debates about the nature of infectious diseases and contagion the discovery of bacteria and antiseptics and charts the complicated path which led to the discovery of antibiotics The large majority of deaths from puerperal fever were due to one micro organism known as *Streptococcus pyogenes* and the last chapter presents valuable new ideas on the nature and epidemiology of streptococcal disease up to the present day **Ventilator-Induced**

Lung Injury Didier Dreyfuss, Georges Saumon, Rolf Hubmayr, 2006-03-21 This reference surveys current best practices in the prevention and management of ventilator induced lung injury VILI and spans the many pathways and mechanisms of VILI including cell injury and repair the modulation of alveolar capillary barrier properties and lung and systemic inflammatory consequences of injurious mechanical ventilation Cons

Operations Without Pain: The Practice and Science of Anaesthesia in Victorian Britain S. Snow, 2005-12-16 The introduction of anaesthesia to Victorian Britain marked a defining moment between modern medicine and earlier practices This book uses new information from John Snow's casebooks and London hospital archives to revise many of the existing historical assumptions about the early history of surgical anaesthesia By examining complex patterns of innovation reversals debate and geographical difference Stephanie Snow shows how anaesthesia became established as a routine part of British medicine

Bringers of Order James N. Gilmore, 2025-02-04 Wearable technology including smartwatches biometric trackers and body cameras are often touted as helpful tools that record produce and analyze data about daily life to improve our individual habits and health or to solve serious public issues In this book James N Gilmore argues that these lofty promises mask forms of surveillance and power Charting the implementation of wearables in areas of accessibility health sports labor law enforcement and infrastructure Gilmore demonstrates how these devices have been positioned as authoritative means for producing knowledge about human activity Drawing on news reporting advertising film and television company reports and legal policies he shows how this knowledge production reproduces three distinct modes of power normalcy surveillance and solutionism Bringers of Order empowers readers to examine the complicated ways our devices reshape how we think about our lives and our ethics and why we should resist companies analyzing our personal data

St Mary's Elsbeth Heaman, 2003 An invaluable collection of major thinkers for students and teachers of film and philosophy

Narrative Science Mary S. Morgan, Kim M. Hajek, Dominic J. Berry, 2022-10-06 The first systematic analysis of the ways scientists have used narrative in their research

Ethics by Committee Noortje Jacobs, 2022-08-26 How liberal democracies in the late twentieth century have sought to resolve public concerns over charged issues in medicine and science Ethics boards have become obligatory passage points in today's medical science and we forget how novel they really are The use of humans in experiments is an age old practice that records show goes back to at least the third century BC and it has been popular as a practice since the early modern period Yet in most countries around the world hardly any formal checks and balances existed to govern the communal oversight of experiments involving human subjects until at least the 1960s Ethics by Committee traces the rise of ethics boards for human experimentation in the second half of the twentieth century Using the Netherlands as a case study historian Noortje Jacobs shows how the authority of physicians to make decisions about clinical research in this period gave way in most developed nations to formal mechanisms of communal decision making that served to regiment the behavior of individual researchers This historically unprecedented change in scientific governance came out of the growing international wariness of medical

research in the decades after World War II and was meant to solidify a new way of reasoning together in liberal democracies about medicine and science But what reasoning together meant and who was invited to participate changed drastically over time In detailing this history Jacobs shows that research ethics committees were originally intended not only to make human experimentation more ethical but also to raise its epistemic quality and intensify the use of new clinical research methods By examining complex negotiations over the appropriate governance of human subjects research Ethics by Committee is an important contribution to our understanding of the randomized controlled trial and the history of research ethics and bioethics more generally Vital Accounts Andrea A. Rusnock,2002-09-16 Rusnock shows how vital accounts became the measure of public health and welfare *The Routledge Companion to Philosophy of Medicine* Miriam Solomon,Jeremy R. Simon,Harold Kincaid,2016-10-04 The Routledge Companion to Philosophy of Medicine is a comprehensive guide to topics in the fields of epistemology and metaphysics of medicine It examines traditional topics such as the concept of disease causality in medicine the epistemology of the randomized controlled trial the biopsychosocial model explanation clinical judgment and phenomenology of medicine and emerging topics such as philosophy of epidemiology measuring harms the concept of disability nursing perspectives race and gender the metaphysics of Chinese medicine and narrative medicine Each of the 48 chapters is written especially for this volume and with a student audience in mind For pedagogy and clarity each chapter contains an extended example illustrating the ideas discussed This text is intended for use as a reference for students in courses in philosophy of medicine and philosophy of science and pairs well with The Routledge Companion to Bioethics for use in medical humanities and social science courses

Quantification And The Quest For Medical Certainty: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Quantification And The Quest For Medical Certainty : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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