



# New Medical Technologies

**Helen Mcateer**

## New Medical Technologies:

*Assessing Medical Technologies* Institute of Medicine, Division of Health Promotion and Disease Prevention, Division of Health Sciences Policy, Committee for Evaluating Medical Technologies in Clinical Use, 1985-02-01 New drugs new devices improved surgical techniques and innovative diagnostic procedures and equipment emerge rapidly. But development of these technologies has outpaced evaluation of their safety, efficacy, cost effectiveness and ethical and social consequences. This volume, which is strongly recommended by The New England Journal of Medicine to all those interested in the future of the practice of medicine, examines how new discoveries can be translated into better care and how the current system's inefficiencies prevent effective health care delivery. In addition the book offers detailed profiles of 20 organizations currently involved in medical technology assessment and proposes ways to organize U.S. efforts and create a coordinated national system for evaluating new medical treatments and technology.

**Medical Technology**, 1979 *Living and Working with the New Medical Technologies* Margaret M. Lock, Allan Young, Alberto Cambrosio, 2000-07-31 This stimulating collection of essays is a product of face to face dialogues among anthropologists, sociologists and philosopher historians. It focuses on the newly created biomedical technologies and their application in practice. Drawing on ethnographic and historical case studies, the authors show how biomedical technologies are produced through the agencies of tools and techniques scientists and doctors, funding bodies, patients, clients and the public. Despite shared concerns, the contributions reveal that the authors have achieved no consensus about the objectives of their research. Deep epistemological divides clearly remain, making for provocative reading.

**New Medical Technologies and Society** Nik Brown, Andrew Webster, 2004-07-23 A critical introduction to the role and cultural significance of technological innovation in redefining the boundaries of medicine and the body, tracing this process through the figure of the lifecourse.

**Development of Medical Technology** United States. Congress. Office of Technology Assessment, 1976

*New Medical Devices* Institute of Medicine, National Academy of Engineering, 1988-01-01 In the past 50 years the development of a wide range of medical devices has improved the quality of people's lives and revolutionized the prevention and treatment of disease, but it also has contributed to the high cost of health care. Issues that shape the invention of new medical devices and affect their introduction and use are explored in this volume. The authors examine the role of federal support, the decision making process behind private funding, the need for reforms in regulation and product liability, the effects of the medical payment system and other critical topics relevant to the development of new devices.

**New Medical Technologies**, 2008 **Managed Care and the Evaluation and Adoption of Emerging Medical Technologies** Steven Garber, 2000 New medical technologies, pharmaceuticals, medical devices and procedures often allow great improvements in the outcomes of medical care, but they are also widely believed to be a major cause of increasing costs. Selective adoption of new technologies is crucial in the quest to control health care costs while preserving or enhancing the quality of care. This report focuses on evaluation and adoption of innovative procedures and

medical devices by managed care organizations MCOs. The project had two primary objectives: 1 to understand current MCO processes for making coverage, medical necessity and payment decisions and how device developers and manufacturers prepare for and participate in these processes; and 2 to identify ways that private voluntary action by the managed care and medical device industries might improve for the benefit of society these processes. The core data are from confidential interviews with eight companies that develop and manufacture medical devices and medical directors of nine MCOs. The findings should be of interest to medical device developers and manufacturers, managed care organizations, public policy makers and researchers and analysts. A major impediment to socially appropriate adoption of emerging medical technologies is limited information about the performance of these technologies in day to day medical practice. The authors discuss prospects for improving four elements of information availability: Developing better information before market introduction, Learning more from experience after market introduction, Evaluating and synthesizing clinical information, Disseminating information. They also discuss several other issues that warrant consideration: Aligning private incentives of MCOs and payers with social values, Enhancing MCO capabilities to evaluate technologies and make decisions, Improving decisions by physicians, Reducing use of inappropriate or obsolete technologies, Reducing costs of decisionmaking for manufacturers and MCOs, Improving manufacturer understanding of the market environment, Helping MCOs and employers anticipate what is in the pipeline.

**Strategies for Medical Technology Assessment**, 1982. This report analyses the present system of identifying and testing medical technologies and of synthesizing and disseminating assessment information. The report focuses on the flow of information that is central to an efficient assessment system. Methods for testing technologies and for synthesizing information are explored and a compendium of data and bibliographic sources are included. The report also describes the innovation process for medical technologies, the effects that federal policies have on that process and the needs those policies generate for technology assessment information. It critiques the current system of assessment and provides policy options both legislative and oversight for congress to improve the system.

**Report and Recommendations to the Secretary, U.S. Department of Health and Human Services** United States. Prospective Payment Assessment Commission, 1984

**New Medical Technology Development and Diffusion** Christopher Lau, 2014. Over the past decade the rapid pace of medical technology development has created a large array of drugs, medical devices and healthcare services, many of which have greatly expanded the scope of treatable diseases. The diffusion of these technologies in the U.S. has helped countless individuals realize substantial improvements in life expectancy and overall quality of life. However, the development and diffusion of new medical technology have also presented several challenges for U.S. policy makers. The three papers that comprise this dissertation examine three policy issues that center on some of these challenges. The first paper examines how markets can fail to incentivize the development of new medical technology that address a public need and explores the lessons learned from the implementation of four different policy solutions. The second paper examines the role of

the National Institutes of Health in new medical technology development and the extent to which its research grant program has encouraged the formation of biopharmaceutical commercial alliances The last paper examines the Centers for Medicare and Medicaid Service s Accountable Care Organization program and whether its participants are changing the way that new medical technologies are used and adopted *Early Evaluation of New Medical Technologies* Helen Mcateer,2012 Health economics provides the tools necessary to demonstrate value for money These tools are typically used by healthcare providers to drive demand side decisions i e to select or reject treatment for reimbursement However these same tools can be used by healthcare technology manufacturers and investors to inform supply side decisions i e to determine whether expected returns will outweigh expected costs In a finite resource healthcare system manufacturers need to concentrate on those products most likely to succeed in market It makes sense to assess potential cost effectiveness as early as possible demonstrating value for money during early stages of product development can be compelling evidence to attract further investment However conducting cost effectiveness analysis when a product is yet to be developed is an extremely uncertain undertaking I propose a simple approach termed the headroom method to the problem of supply side analysis This will help manufacturers avoid misguidedly investing in technologies that are unlikely to be cost effective I illustrate the headroom method using real examples from the regenerative medicine industry **Adopting New Medical Technology** Institute of Medicine,Committee on Technological Innovation in Medicine,1994-02-01 What information and decision making processes determine how and whether an experimental medical technology becomes accepted and used Adopting New Medical Technology reviews the strengths and weaknesses of present coverage and adoption practices highlights opportunities for improving both the decision making processes and the underlying information base and considers approaches to instituting a much needed increase in financial support for evaluative research Essays explore the nature of technological change the use of technology assessment in decisions by health care providers and federal for profit and not for profit payers the role of the courts in determining benefits coverage strengthening the connections between evaluative research and coverage decision making manufacturers responses to the increased demand for outcomes research and the implications of health care reform for technology policy *Technical Appendixes to the Report and Recommendations to the Secretary, U.S. Department of Health and Human Services* United States. Prospective Payment Assessment Commission,1986 New Medical Technologies in the Health Sector and Their Labour Market Implications ,1986\* **Biodesign** Stefanos Zenios,Josh Makower,Paul Yock,2010 Recognize market opportunities master the design process and develop business acumen with this how to guide to medical technology innovation Outlining a systematic proven approach for innovation identify invent implement and integrating medical engineering and business challenges with real world case studies this book provides a practical guide for students and professionals **Haudrich V. Howmedica, Inc** ,1994 The Economics of New Health Technologies Joan Costa-Font,Christophe Courbage,Alistair McGuire,2009-05-14 Technological change in healthcare has led

to huge improvements in health services and the health status of populations. Although offering remarkable benefits, these changes often entail significant financial, physical and social risks. This book analyses the impact of advances in medical technology from an economic perspective. *American Journal of Medical Technology*, 1980. **New Health Technologies Managing Access, Value and Sustainability** OECD, 2017-01-16. This report discusses the need for an integrated and cyclical approach to managing health technology in order to mitigate clinical and financial risks and ensure acceptable value for money.

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