

Review Of Healthcare In India

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Review of Healthcare in India

Contents: Indian Health Care System, Health Care Marketing: An Overview, Methodology of the Study, Profile of the Selected Corporate Hospitals, An Empirical Study, Conclusions and Suggestions.

Public Healthcare Infrastructure in Tribal India

This report focuses on health sector reform and outlines some broad measures for reform in this sector. It evaluates policy options and presents the theory and evidence to support these policy choices. This report also offers specific proposals to improve health policy and strengthen implementation across India. It is a product of extensive consultation and research undertaken by more than a dozen institutions.

Health Care Marketing

This book comprehensively discusses the background to the passing of India's revolutionary Mental Healthcare Act, 2017, offering a detailed description of the Act itself and a rigorous analysis in the context of the CRPD and the World Health Organization (WHO) standards for mental health law. It examines the fine balance, between complying with the CRPD while still delivering practical, humane, and implementable legislation. It explores how this legislation was shaped by the WHO standards and provides insights into areas where the Indian legislators deviated from these guidelines and why. Taking India as an example, it highlights what is possible in other low- and middle-income countries. Further it covers key issues in mental health, identifying potential competing interests and exploring the difficulties and limitations of international guidelines. The book is a valuable resource for psychiatrists, nurses, social workers, non-governmental organizations and all mental healthcare workers in India and anyone studying human rights law.

Better Health Systems for India's Poor

This book addresses health and healthcare issues in India with a special focus on the Northeast region. Pursuing a multidisciplinary approach, it highlights key issues in health and healthcare and outlines the actions needed to achieve the desired results in these areas as laid out in the UN Millennium Development Goals. In addition to introducing some new questions on health and healthcare development, it presents cross-country analyses, and examines the convergence of healthcare across Indian states, as well as mortality and morbidity in the Northeast. The book also explores the regional complexities involved in the discussion of these topics. It presents a number of specific techniques, such as two-level logistic regression, analysis of mental health, probabilistic and predictive analysis of nutritional deficit, and generalized linear mixed models, that can be used to analyze mortality and morbidity and factors affecting out-of-pocket expenses in the healthcare context. Lastly, it presents concrete case studies substantiating the theoretical models discussed. As such, the book offers a valuable resource for health researchers, professionals and policymakers alike.

Rethinking Business Responsibility in India

This book addresses major aspects of inequity, such as access, financing, financial risk protection, gender, service delivery and utilization, in the healthcare sector in India,. Further, it discusses various measures for defining inequity in each of these aspects, and employs different indices for each dimension of inequity, which include financing, utilization, region, health outcomes, caste and class, and gender. The book covers both theoretical and empirical issues, examining fifteen major Indian States, as well as selected case studies at the district level. Combining quantitative and qualitative analyses, the book provides an overall view of the outcomes attributable to both economic development and policy changes per se. While providing essential data and insights for policymakers and researchers alike, the book also outlines further feasible policy changes that could potentially mitigate the current inequities in Indian healthcare. As such, it offers a valuable resource for upper graduate-level students in health economics, as well as for researchers and policymakers.

India's Mental Healthcare Act, 2017

"Describes the three sets of institutions that deliver healthcare services in India, finance these services, and manufacture the products used in these services"--Provided by publisher.

Issues on Health and Healthcare in India

This book focuses on how companies are innovating with regard to the Bottom-of-the-Pyramid (BOP) the lowest socio-economic segment, and the organizational conditions they need to be successful. The authors use several examples of disruptive innovations for this market, particularly in the Indian healthcare sector. Low-cost, specialty hospital chains like Aravind Eye Care and Narayana Hrudayalaya have brought down the cost of certain medical procedures significantly. The Indian conglomerate Tata Group and the American healthcare giant GE Healthcare have also developed affordable products targeted at the lowest-income segments in India. The authors present an in-depth analysis of these companies and present their insightful results on disruptive innovation and the ever-challenging BOP market.

Inequity in Indian Health Care

Project Report from the year 2013 in the subject American Studies - Comparative Literature, grade: A-, University of Bedfordshire, course: MASTER OF BUSINESS ADMINISTRATION IN HEALTHCARE & HOSPITAL MANAGEMENT, language: English, abstract: This theory into practice report is intend for exploration of influence of globalisation on the healthcare delivery in Indian Medical Tourism industry. The scope of this report is broad as it critically analyse Indian Medical Tourism industry with the means of theoretical frameworks and case studies based on 3 famous Indian Hospitals. The core objective of this report is to determine the impact of globalisation on the Indian Medical Tourism sector, It has been discovered that India is regarded as the most favourite destination from the perspective of medical tourists and all this possible due to several factors (low treatment cost, capitalisation of superior medical technology and highly skilled paramedical and medical staff who got initial training from Developed countries). The globalisation of healthcare services had been began after the signing of General Agreement on Trade Services (GATS) which thereafter directed Indian economy towards the opening up especially in relation to inflow of advanced medical equipment, pharmaceuticals and implants from other countries and also resulted in the enhancement of quality standards which were guided through the development of clinical governance and competitive benchmarking system. Indian Medical Tourism

sector has been offering qualitative and comparatively affordable healthcare services through highly skilled personnel, increasing Indian foreign revenue, expanding job opportunities within healthcare sector, augmenting the global standing of India, encouraging investors to make more investment with healthcare sector and corresponding is promoting reverse brain drain. The major challenge which is a threat to Indian healthcare services due to the globalisation factor is the increasing inequity between Indian public and private sector and is hence resulted in the form of brain drain. The second challenge is related with ethical issues in response to certain procedures (reproductive tourism & organ transplantation). Professionals of Indian public healthcare sector should come up with regulatory policies in the align with strict governance policies for India private healthcare in order to overcome certain challenges occur after the brain drain of doctors from public healthcare to private sector.

India's Healthcare Industry

b”IoT-Enabled Smart Healthcare Systems, Services and ApplicationsExplore the latest healthcare applications of cutting-edge technologies In IoT-Enabled Smart Healthcare Systems, Services and Applications, an accomplished team of researchers delivers an insightful and comprehensive exploration of the roles played by cutting-edge technologies in modern healthcare delivery. The distinguished editors have included resources from a diverse array of learned experts in the field that combine to create a broad examination of a rapidly developing field. With a particular focus on Internet of Things (IoT) technologies, readers will discover how new technologies are impacting healthcare applications from remote monitoring systems to entire healthcare delivery methodologies. After an introduction to the role of emerging technologies in smart health care, this volume includes treatments of ICN-Fog computing, edge computing, security and privacy, IoT architecture, vehicular ad-hoc networks (VANETs), and patient surveillance systems, all in the context of healthcare delivery. Readers will also find: A thorough introduction to ICN-Fog computing for IoT based healthcare, including its architecture and challenges Comprehensive explorations of Internet of Things enabled software defined networking for edge computing in healthcare Practical discussions of a review of e-healthcare systems in India and Thailand, as well as the security and privacy issues that arise through the use of smart healthcare systems using Internet of Things devices In-depth examinations of the architecture and applications of an Internet of Things based healthcare system Perfect for healthcare practitioners and allied health professionals, hospital administrators, and technology professionals, IoT-Enabled Smart Healthcare Systems, Services and Applications is an indispensable addition to the libraries of healthcare regulators and policymakers seeking a one-stop resource that explains cutting-edge technologies in modern healthcare.

Frugal Innovation in Healthcare

This book includes state-of-the-art discussions on various issues and aspects of the implementation, testing, validation, and application of big data in the context of healthcare. The concept of big data is revolutionary, both from a technological and societal well-being standpoint. This book provides a comprehensive reference guide for engineers, scientists, and students studying/involved in the development of big data tools in the areas of healthcare and medicine. It also features a multifaceted and state-of-the-art literature review on healthcare data, its modalities, complexities, and methodologies, along with mathematical formulations. The book is divided into two main sections, the first of which discusses the challenges and opportunities associated with the implementation of big data in the healthcare sector. In turn, the second addresses the mathematical modeling of healthcare problems, as well as current and potential future big data applications and platforms.

Globalisation of Healthcare Medical Tourism in Indian Multi-Speciality Hospitals

Despite rapid advances in modern medicine and state-of-the-art health care services in the private sector, primary health care in India remains inaccessible to a majority of the population. Besides, even policymakers often do not have access to real-time data to fine-tune their policies or design appropriate research and intervention programmes. Drawing on field experiences, this volume brings together scholars and practitioners to examine public health from different perspectives. It discusses practical and applied issues related to the health sector, especially the role of Information and Communications Technology (ICT); participation of civil society; service delivery; quality evaluation; consumer empowerment; data management; and research and intervention. This book will be useful to scholars, students and practitioners of public health in developing countries such as India. It will also

interest policymakers, health care professionals, and departments of public health management and those concerned with community medicine.

IoT-enabled Smart Healthcare Systems, Services and Applications

Master's Thesis from the year 2019 in the subject Health - Public Health, grade: 7, course: PUBLIC HEALTH, language: English, abstract: In India, healthcare costs are increasing and India's health financing system is exacerbating economic burden on household because of health expenditure and influence treatment-seeking behaviors. As a result, health inequity and unequal access, come up as the main concern for the Indian Health care system. This study aims to report the bottlenecks in health financing functions resulting in financial barriers in health care access. Literature review and desk study were done by reviewing, analyzing the data from national health account and National Family Health Survey conducted during 2012-13 to 2015-16 and analysis of studies done on health system and Health financing functions in India were included. The OASIS framework used to guide the study.

Big Data Analytics in Healthcare

This volume has articles contributed by health researchers, practitioners, policy advocates, programme managers and a journalist, and poems by renowned poet-physician Gieve Patel. Each presents a distinctive view of a particular group of frontline health providers, based on field research or on the authors' respective experiences of working with or as providers. The health providers addressed in this volume include doctors (working in the public and private sectors), nurses, public health workers, counsellors, traditional practitioners and homecare providers. Different groups of health providers face struggles at diverse frontiers -- social, professional and systemic. In the context of reforming health systems, government health workers must constantly negotiate the vagaries of changing working environments and policy vacillations. For traditional and homecare providers, formal health systems and structures often only reject and exclude their contributions. Medical doctors, conversely, face difficult challenges of introspection, as they tread the line between personal gain and public service. The ideas and themes that emerge in this collection not only contribute to the understanding of providers' roles as actors in the health systems and societies of contemporary India, but re-examines preconceptions about this critical occupational group. This volume advances the case for a deeper appreciation of India's complex landscape of healthcare provision, and of the potential roles of frontline health providers as central figures in development.

Public Health in India

A collection of articles by eminent Indian health economists and health policy analysts, providing reviews of many aspects of health financing in India, including public health expenditures at national and state levels; the development and functioning of public and private hospitals; health insurance; the private health sector; household health exp.

The Unmet Objective of Health Financing in India. Affordable Health Care for All

This book is a study of aspects of public health in Bombay Presidency from 1896 to 1930, and is based upon extensive primary data. It charts both the changes in the colonial plague policy, from the deadly epidemic of 1896 to the frequent epidemics that appeared in the 1900s, as well as the changes in Indian responses to that policy in different regions of the Presidency. Through a survey of unique local initiatives by activist health officials, civic leaders, and Indian doctors, efforts to bring sanitary consciousness into the public sphere, to promote preventive measures, and to tackle public health challenges like tuberculosis become apparent. The twentieth century witnessed an increasing acceptance of the idea of hospitalization and thus gave rise to the expansion of hospital facilities. This work therefore elucidates these developments through an analysis of both the funding of these expanding institutions and the classification system of admissions, as well as by providing a detailed review of maternity and mission hospitals. With these issues in mind, this work examines a range of perceptions including those of British and Indian physicians regarding the causes of high maternal and infant mortality and their suggestions to tackle it, as well as semi-official and non-official efforts to promote maternal and infant welfare. Specifically, issues such as the health of female mill workers, and the training of nurses, dais, and midwives is addressed. There was a close link between the attempts to improve the health of women and the growing number of female Indian doctors. Some of the career paths of these doctors, including their activities in the All India Women's Conference, the Association of Medical Women in India, and the National Planning Committee, are traced in this work.

Through such analyses, the relative place of Western and Indian medicine in the Presidency can also be explored to reveal the manifold and complex dimensions of this encounter. This study will contribute to an understanding of the all India public health scenario of the pre-independence years, and will be of interest to scholars of history, sociology, community health, gender studies, and South Asian studies, as well as to health workers and NGOs.

Health Providers in India

Winner of the first prize in the Health and Social Care category at the BMA Medical Book Awards 2016. With chapters on 25 different countries, this practical and succinct guide to the world's major health systems explores what lessons can be drawn from each to improve health worldwide. Each chapter is an essay designed to give the reader essential knowledge of the history, strengths, weaknesses and lessons of each health system and provide a truly global health perspective – all in the time it takes to drink a cup of coffee. Whether a healthcare manager or a student studying health systems, this accessible and engaging book provides a fascinating insight in to how health care is delivered around the world.

Paying for India's Health Care

As healthcare, culture, and the environment remain crucial aspects of modern society, the current issues and opportunities within each sector must be examined and considered in order to ensure their success in the future. These critical fields should be studied in relation to each other as they must work in tandem to create a better society. The Handbook of Research on Interdisciplinary Studies on Healthcare, Culture, and the Environment presents innovative ideas and emerging research to highlight critical trends focusing on the relationship between healthcare, environmental wellbeing, and society and culture. Covering a range of topics such as sustainability, leadership, and food security, this reference work is ideal for industry professionals, researchers, academicians, practitioners, instructors, and students.

Health Care in Bombay Presidency, 1896-1930

For every story of optimism about the growth of medical tourism to India, there are multiple others about medical neglect. Scratch the surface and you find a thick layer of corruption in this life-sustaining sector. This hard-hitting volume shows a mirror to society and, more specifically, to those associated with the health sector—on how healers, in many cases, are shifting shape to becoming predators. In the essays by contributors from within and outside the medical fraternity, we see the many faces, the many facets of corruption—from exorbitant billing by corporate hospitals to the non-merit-based selection in medical colleges to questionable motives playing strong in the area of organ transplantation. But Healers or Predators? is not only about the illness affecting the sector. It also offers solutions, and some stories of hope. The Foreword by Amartya Sen is an added bonus. 'This splendid, if depressing, book will do a lot to remedy [the] momentous neglect [of healthcare]. We have excellent reasons to be grateful to the authors and editors of this important collection of investigative studies.'—Amartya Sen

In Search of the Perfect Health System

Hospital managers require problem solving skills besides developing a conceptual understanding of hospital management challenges, in order to be effective and efficient in service delivery. Hospital Management: Text and cases is expected to meet the theoretical and practical needs of current hospital managers as well as students who aspire to become hospital managers in future.

Handbook of Research on Interdisciplinary Studies on Healthcare, Culture, and the Environment

With Its Excellent Mix Of Facts And Analysis This Report Will Be An Invaluable Resource For Those In The Government And Academic, Public Health Care Experts And Policy-Makers.

Healers or Predators?

About the Book : - Health of the people plays a significant role in the overall economic and social development of a nation. Keeping this in view, the Indian planners have aimed at an efficient health system, encompassing promotive, preventive and curative components. However, studies on the measurement of efficiency in health care are limited both in number and coverage. Most of the available studies deal with macro level analysis and do not apply quantitative techniques at sub-state level. In

this context this book is a very useful attempt at measuring efficiency in health care at sub-national as well as at sub-state level using econometric tools. In doing so it presents case studies of select States. At the outset this study provides a synoptic view of Indian health care sector and highlights the need for an efficient health care system. This is followed by an exhaustive review of all the econometric studies with a focus on application of data envelopment analysis and frontier estimation techniques. This is further followed by measurement of efficiency in health sector using an econometric model. Using both panel data and cross section data at state and sub-state level, it carries out an aggregate all India level; state level and sub-state level analysis of health system performance. At the state level it covers fourteen major rich, middle income and low income states. This is followed by a sub-state level analysis of five states which include Punjab, Maharashtra, Karnataka, Madhya Pradesh and West Bengal, respectively. About the Author : - Dr. Brijesh C. Purohit is a Professor at Madras School of Economics, Chennai, India; He began his career in 1986 and worked as a researcher at the Centre for Policy Research, New Delhi (1986); an economist at the National Institute of Public Finance and Policy, New Delhi (1986-90); an Associate Professor at the Indian Institute of Health Management Research, Jaipur (1990-96); Fellow at the Institute of Development Studies, Jaipur (1996); South Asian Visiting Scholar at Queen Elizabeth House, University of Oxford (October 1996-March 1997); Faculty member at the Administrative Staff College of India, Hyderabad; Senior Fellow and Consultant at State Institute, Chandigarh; Senior Consultant at the Centre for Policy Research, New Delhi (2001-02); Associate Professor at Nirma Institute of Management, Ahmedabad (2002-04), and Advisor with Reform Project of US AID, Ranchi (2004-07).

Hospital Management

This book analyses the development of private healthcare in post-Independence Kolkata, India, and the rapid expansion of private nursing homes and hospitals from a historical and sociological perspective. It offers an examination of the changing pattern of the entire health care sector, which over recent decades has transformed itself to a profit-making commodity. The book explores the complexities of the health care services in Kolkata with special emphasis on the emergence, growth, role and the changing pattern of private health care organisations and the decline or degeneration of the services of public hospitals. Post-1947 India experienced the implementation of new developments in public health services, amongst others vertical programmes, primary health centers, family planning welfare programmes and community health volunteers. Examining the challenges in establishing a comprehensive health service system and the process of market forces in health care, the author investigates its linkages with policies of the welfare state. This book will be of interest to academics in the field of medical sociology, history of medicine and health and development studies and South Asian Studies.

India Health Report

Description The miracles and tragedies of life, the compassion and cruelties of humanity are nowhere more visible than in the field of medicine. It is these that Kavary Nambisan-doctor and writer of immense sensitivity-explores in this memoir, drawing upon her work as a surgeon over four decades in rural and small-town India. Through her patients' stories, she depicts the highs and lows of medical practice: Sudha, in Mokama, Bihar, left immobilized waist-down after being set on fire by her in-laws, but determined to walk; construction workers in Lonavala, Maharashtra, who preferred the quick-fix of the 'drip', so that they wouldn't miss their daily wage; four-year-old Pavana in the Anamallais, mauled by a leopard, who had to be driven over 40 kilometres of gutted roads to the nearest hospital. And in contrast, the friend of a Tamil Nadu chief minister who could summon a doctor repeatedly, at will, to attend to her stubbed toe. Settled in Kodagu, Karnataka, after years of practice in hospitals, Kavary now works as a GP, and she writes about treating snake bites, skin diseases, tuberculosis, epileptic seizures and, lately, Covid-19; even as she helps some of her patients hide their meagre savings from alcoholic husbands. Throughout, Kavary also examines the evolution of medical practice and the state of India's public health; and weaves in episodes from her personal life: learning from heroes and rogues, coming into her own as a surgeon, and nursing her husband, the poet Vijay Nambisan, who was claimed by cancer. Engaging, incisive and deeply felt, *A Luxury Called Health* shows, as few books have ever done, 'the sincerity and the deception, the valour and the cowardice beneath the white coat'.

Health Care System in India

The healthcare industry is one of the most rapidly growing service industries in the world today. The central theme of all healthcare systems is "quality," which needs to be managed effectively for performance excellence and survival in today's business environment. The concept of quality at the organizational level has led to several innovations in quality management, from the traditional quality assurance to implementation of the philosophy of total quality management. This book reviews in detail the quality assurance, audit methods, quality award criteria, and total quality management in healthcare in India. After an introductory chapter on the quality management in healthcare organizations, the book discusses core issues in healthcare quality, quality assurance mechanisms, total quality management, and quality of healthcare services. Most recent developments, like India's NABH (National Accreditation Board for Hospitals & Healthcare Providers) accreditation for hospitals are also discussed. The book also looks at the research on quality dimensions and investigations which finally led to the development of an integrative framework on total service quality management for hospitals. An analysis of research work in quality management in Indian hospitals is included. The book makes a strong case for continuous improvement, based on total quality service management criteria.

Healthcare in Post-Independence India

Doctoral Thesis / Dissertation from the year 2017 in the subject Law - European and International Law, Intellectual Properties, grade: 1, Coventry University, language: English, abstract: This research undertakes a review of available studies to conduct a critical analysis of the impact of patent protection in developing health care innovations and further on public health in India and the UK. A patent is an intellectual property right that is granted to an inventor of a product, to exclude others from manufacturing, selling, importing an invention without the permission of the inventor. It is a social contract whereby the patentee is granted a monopoly over their invention, and in return society receives innovation. Therefore, it is an incentive scheme to benefit inventors and society as a whole. There are several laws which regulate Patents, such as patent protection, increasing the life of a patent, reducing patentability standards and extending patent protection to undesirable products increase monopolies. The patent owners gain exclusive rights in the form of patents or an exclusive license, thus leading to an increase in the cost of such products. In addition, the patent owners adopt strategies to extend the scope of patent gain additional patents which protect the underlying ingredient of the medicine. Many pharmaceutical products are protected by Patents. The generic drug manufacturers in the pharmaceutical industry are affected such laws, which in turn affects the price of medicines available to patients. This creates a problem of access to affordable means of healthcare and further affects public health. Finally, the research will provide recommendations such as a framework of price control model to ensure sufficient access to medicines, and other recommendation for future of the progressing patent system of both the countries.

A Luxury Called Health a Doctor's Journey Through the Art, the Science and the Trickery of Medicine

Exploratory data analysis helps to recognize natural patterns hidden in the data. This book describes the tools for hypothesis generation by visualizing data through graphical representation and provides insight into advanced analytics concepts in an easy way. The book addresses the complete data visualization technologies workflow, explores basic and high-level concepts of computer science and engineering in medical science, and provides an overview of the clinical scientific research areas that enables smart diagnosis equipment. It will discuss techniques and tools used to explore large volumes of medical data and offers case studies that focus on the innovative technological upgradation and challenges faced today. The primary audience for the book includes specialists, researchers, graduates, designers, experts, physicians, and engineers who are doing research in this domain.

Total Quality Service in Healthcare

In this book the authors explore the state of the art on efficiency measurement in health systems and international experts offer insights into the pitfalls and potential associated with various measurement techniques. The authors show that: - The core idea of efficiency is easy to understand in principle - maximizing valued outputs relative to inputs, but is often difficult to make operational in real-life situations - There have been numerous advances in data collection and availability, as well as innovative methodological approaches that give valuable insights into how efficiently health care is delivered - Our simple analytical framework can facilitate the development and interpretation of efficiency indicators.

The Impact of Patent Protection on Health Care in India and the UK. A Comparative Analysis

"This book comprehensively captures the essence of inventing medical devices through anecdotes, case studies and real life examples. A recommended must read for any aspiring entrepreneur who wishes to invent new medical devices in India." - Dr. Balram Bhargava, Padmashri, Professor of Cardiology, Cardiothoracic Sciences Centre, Executive Director, Stanford India Biodesign Centre, School of International Biodesign (SIB), All India Institute of Medical Sciences, New Delhi. "A timely resource- This is a remarkably readable and useful primer on medical device innovation in India, written by one of the emerging leaders in the field. The realistic perspective and practical suggestions in this book have arrived just in time for a health technology ecosystem that is in a substantial stage of growth." - Dr. Paul Yock, Founder and Director, Stanford Biodesign "Despite the stated focus as a book for doctors looking to engage with the MedTech ecosystem in India, this book has several teachings for engineers, product designers, business strategists, marketing folks and investors as well." - The Hans India In this book, the author shares his experiences, anecdotes, insights and failures while inventing medical devices in India over the last six years. The idea is to give entrepreneurs (clinicians, engineers, designers, business professionals) a realistic expectation of the time, money, co-ordination and teamwork required to develop a medical device in India. This book includes case studies, anecdotes, caricatures and a special "how I do it" section at the end of the book that gives step-by-step guidelines on how to identify a need, make clinical observations, create need statements, perform needs filtering, develop criteria, conceptualize a solution and take it to a proof of concept. This book is recommended for all Indian healthcare professionals, engineers and product designers who seek to solve unmet clinical challenges with new medical devices, but are unsure of how to go about taking their idea from the concept stage to an actual product. This book illustrates ways for engineers and designers to formally engage with doctors, and gives a comprehensive perspective of the path from ideation to commercialization.

Exploratory Data Analytics for Healthcare

The Social Security Administration (SSA) administers two programs that provide benefits based on disability: the Social Security Disability Insurance (SSDI) program and the Supplemental Security Income (SSI) program. This report analyzes health care utilizations as they relate to impairment severity and SSA's definition of disability. Health Care Utilization as a Proxy in Disability Determination identifies types of utilizations that might be good proxies for "listing-level" severity; that is, what represents an impairment, or combination of impairments, that are severe enough to prevent a person from doing any gainful activity, regardless of age, education, or work experience.

Health System Efficiency

This book presents the first comprehensive review of all major government-supported health insurance schemes in India and their potential for contributing to the achievement of universal coverage in India are discussed.

Inventing Medical Devices

As education and health are two major areas of concern in the context of social sector development and human development achievements, this book explores their situation in India. The liberalisation of the Indian economy had a major impact on the growth rate of its Gross Domestic Product (GDP), with the economic growth of the country jumping from the so-called Hindu growth rate of 3.5% to 8–9% per annum. The literacy rate increased to 74.04% in 2011 from 12% in 1947, while the universalization of elementary education has been achieved to a great extent, and dropout rates have decreased. However, despite considerable progress, exclusions and wide disparities still exist. Combining access with affordability and ensuring quality with good governance and adequate finance are still of great concern. On the health front, significant achievements have also been made, with a number of diseases eradicated or on the verge of elimination. There has been a substantial drop in the Total Fertility Rate (TFR) and Infant Mortality Rate (IMR), and life expectancy has increased from 36.7 years in 1951 to 67.14 in 2011. The crude birth rate has been reduced from 40.8 in 1951 to 20.6 in 2012, and the crude death rate from 25.1 to 7.43 in the same period. These achievements are impressive, but at the same time our failures appear even more glaring. As such, this volume brings together contributions from eminent Indian scholars on a range of social issues, including linkages between growth, poverty and the social sector; the efficiency of social sector spending in India; disparity in health statuses; IPR protection in health innovations; pollution and health; the universalisation of elementary education; problems faced at the higher levels of education; and issues of child labour.

Health-Care Utilization as a Proxy in Disability Determination

Medical and information communication technology professionals are working to develop robust classification techniques, especially in healthcare data/image analysis, to ensure quick diagnoses and treatments to patients. Without fast and immediate access to healthcare databases and information, medical professionals' success rates and treatment options become limited and fall to disastrous levels. *Advanced Classification Techniques for Healthcare Analysis* provides emerging insight into classification techniques in delivering quality, accurate, and affordable healthcare, while also discussing the impact health data has on medical treatments. Featuring coverage on a broad range of topics such as early diagnosis, brain-computer interface, metaheuristic algorithms, clustering techniques, learning schemes, and mobile telemedicine, this book is ideal for medical professionals, healthcare administrators, engineers, researchers, academicians, and technology developers seeking current research on furthering information and communication technology that improves patient care.

Asylum

This book describes how the creation of new digital services—through vertical and horizontal integration of data coming from sensors on top of existing legacy systems—that has already had a major impact on industry is now extending to healthcare. The book describes the fourth industrial revolution (i.e. Health 4.0), which is based on virtualization and service aggregation. It shows how sensors, embedded systems, and cyber-physical systems are fundamentally changing the way industrial processes work, their business models, and how we consume, while also affecting the health and care domains. Chapters describe the technology behind the shift of point of care to point of need and away from hospitals and institutions; how care will be delivered virtually outside hospitals; that services will be tailored to individuals rather than being designed as statistical averages; that data analytics will be used to help patients to manage their chronic conditions with help of smart devices; and that pharmaceuticals will be interactive to help prevent adverse reactions. The topics presented will have an impact on a variety of healthcare stakeholders in a continuously global and hyper-connected world. · Presents explanations of emerging topics as they relate to e-health, such as Industry 4.0, Precision Medicine, Mobile Health, 5G, Big Data, and Cyber-physical systems; · Provides overviews of technologies in addition to possible application scenarios and market conditions; · Features comprehensive demographic and statistic coverage of Health 4.0 presented in a graphical manner.

Government-Sponsored Health Insurance in India

The MedTech ecosystem in India is emerging and the Indian medical devices industry is on the growth curve, estimated to be a 14 Billion USD industry by 2020. However, the ecosystem is poorly understood with its diverse healthcare systems, complex stakeholders and limited available data. It is important to understand the MedTech ecosystem in India well before developing new medical technologies that suit this environment. In this book, the author shares his experiences, anecdotes, insights and failures while inventing medical devices in India over the last five years. The idea is to give entrepreneurs (clinicians, engineers, designers, business professionals) a realistic expectation of the time, money, co-ordination and teamwork required to develop a new medical device in India. This book is specially recommended for Indian healthcare professionals who are passionate about solving unmet clinical challenges by inventing new medical devices, but are not sure of how to go about taking their idea from a concept stage to an actual product. Entrepreneurs from engineering, design and business backgrounds, will also find this book useful, as it illustrates ways to engage with doctors, and gives a comprehensive perspective of the path from ideation to commercialization. This book attempts to address all common queries a budding entrepreneur in India can have such as "Where to find clinical challenges worth solving?" "How to find them?" "How do I form a cross-disciplinary team?" "Where do I find these people?" "If I have a great idea, when and how can I sell it?" "How long does it take to make a new medical device in India?" "How can I raise money for this development?" "How can full time practicing doctors work with engineers to develop a new device?" "How can engineers engage doctors for clinical inputs and validation?" "How can an invention that is developed at an academic institute be successfully translated to market through a start up company?" "How and when can I start making money?." The list is endless and understandably so because the MedTech ecosystem in India is still evolving and growing from infancy to adulthood. This book also provides in great detail, real life examples of financial expenditures necessary for various stages of the device development process and some financial terms for licensing and investment deals.

Health Status of the Districts of India

Quality reporting is a rapidly growing area. Each year, new regulations in the US from the Council of Medicare and Medicaid Services make quality reporting a larger factor in determining reimbursement practices. Quality metrics are common parts of European clinical practice. Value of care is a focus of all payers, with specific interest directed at assessing the quality of care provided by a given healthcare team. While there are many publications in this space, no text has sought to provide an overview of quality in spine care. Quality measurement and quality reporting are ever growing aspects of the healthcare environment. Quality assessment is valuable to all healthcare stakeholders: patients, physicians, facilities, and payers. Patients are drawn to facilities that provide high value care; public reporting systems and grading systems for hospitals offer one opinion with regard to “high quality care.” Most physicians email inboxes are inundated with offers of recognition for being a “Top Doc” for a nominal fee. Some payers offer incentives to patients who chose to be treated at “Centers of Excellence” or similar facilities; the definition of “Excellence” may be unclear. There is little consensus on how to measure quality, how to incorporate patient and procedure factors and achieve accurate risk adjustment, and how to define value of care. Regardless of these challenges, regulatory efforts in the US, as well as numerous international efforts, make quality assessment and quality reporting an important part of physician behaviour. Physician and facility reimbursement for procedures are often tied to quality metrics. Spine procedures are costly, elective, and are a focus of many payer-based programs. Hence, spine care is often a focus of quality reporting efforts. This text summarizes the state of the art with regard to quality measurement, reporting, and value assessment in spine care. We will review quality reporting in the US and internationally. Chapters will outline how quality improvement efforts have achieved success in hospital systems. The reader will be provided with insights in how to achieve success incorporating quality metrics into spine care. Features: 1. Illustrates the state of the art in spine quality reporting: There is no text that thoroughly addresses quality assessment and quality reporting in spine care; there are, however, numerous articles in this space. This book provides a definitive text covering the state of the art for quality reporting in spine care and will be of value to the international orthopedic and neurosurgical spine community. 2. Provides insight on quality reporting in different healthcare systems: The text will allow for comparison of different quality reporting systems from different health care systems. This will provide practitioners with insight into the strengths and weaknesses of different approaches to quality reporting, and may drive improvement in quality assessment and reporting systems. A single text that features review of US, European, and Australia/Asian health care systems’ quality reporting is novel and will be thought provoking for readers. 3. Describes the US and international Healthcare reimbursement systems: Practicing physicians are provided with little information and less insight into the vagaries of the US and other healthcare systems. The text will provide insight into code development, valuation, and how quality reporting affects physician reimbursement 4. Explains risk adjustment: Appropriate risk adjustment and assessing patient and procedure factors that may impact quality reporting are invaluable to accurate quality measurement. The text will review risk adjustment, different approaches to risk assessment/mitigation, and provide physicians with insights into appropriate measures to capture in their clinical practices 5. Provides a foundation for improved quality assessment in spine care: While there are many disparate elements and differing approaches to capturing spine quality metrics, no definitive text has attempted to summarize these efforts in a single volume. By synthesizing these variable approaches, the reader may be provided with insights into superior approaches to quality assessment and a foundation will be provided for improving healthcare systems.

Social Sector in India

Advanced Classification Techniques for Healthcare Analysis