



Analysing the Efficiency of Health Systems: A Systematic Review of the Literature

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Abstract

Background Efficiency refers the use of resources in ways that optimise desired outcomes. Health system efficiency is a priority concern for policy makers globally as countries aim to achieve universal health coverage, and face the additional challenge of an aging population. Efficiency analysis in the health sector has typically focused on the efficiency of healthcare facilities (hospitals, primary healthcare facilities), with few studies focusing on system level (national or sub-national) efficiency. We carried out a thematic review of literature that assessed the efficiency of health systems at the national and sub-national level.

Methods We conducted a systematic search of PubMed and Google scholar between 2000 and 2021 and a manual search of relevant papers selected from their reference lists. A total of 131 papers were included. We analysed and synthesised evidence from the selected papers using a thematic approach (selecting, sorting, coding and charting collected data according to identified key issues and themes).

Findings There were more publications from high- and upper middle-income countries (53%) than from low-income and lower middle-income countries. There were also more publications focusing on national level (60%) compared to sub-national health systems' efficiency. Only 6% of studies used either qualitative methods or mixed methods while 94% used quantitative approaches. Data envelopment analysis, a non-parametric method, was the most common methodological approach used, followed by stochastic frontier analysis, a parametric method. A range of regression methods were used to identify the determinants of health system efficiency. While studies used a range of inputs, these generally considered the building blocks of health systems, health risk factors, and social determinants of health. Outputs used in efficiency analysis could be classified as either intermediate health service outputs (e.g., number of health facility visits), single health outcomes (e.g., infant mortality rate) or composite indices of either intermediate outputs of health outcomes (e.g., Health Adjusted Life Expectancy). Factors that were found to affect health system efficiency include demographic and socio-economic characteristics of the population, macro-economic characteristics of the national and sub-national regions, population health and wellbeing, the governance and political characteristics of these regions, and health system characteristics.

Conclusion This review highlights the limited evidence on health system efficiency, especially in low- and middle-income countries. It also reveals the dearth of efficiency studies that use mixed methods approaches by incorporating qualitative inquiry. The review offers insights on the drivers of the efficiency of national and sub-national health systems, and highlights potential targets for reforms to improve health system efficiency.

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Analysing Health Systems

Richard Bailey



Analysing Health Systems:

Resilient Health Systems Federico Lega, Giada Carola Castellini, 2022-02-23 Since February 2020 the COVID 19 pandemic has strained health systems worldwide This book explores the factors determining the ability of health systems to cope with and recover from a crisis and therefore their level of resilience *Paying for Performance in Healthcare: Implications for Health System Performance and Accountability* Cheryl Cashin, Y-Ling Chi, Michael Borowitz, Sarah Thompson, 2014-09-16 Health spending continues to grow faster than the economy in most OECD countries In 2010 the OECD published a study of strategies to increase value for money in health care in which pay for performance P4P was identified as an innovative tool to improve health system efficiency in several OECD countries However evidence that P4P increases value for money boosts quality of processes in health care or improves health outcomes is limited This book explores the many questions surrounding P4P such as whether the potential power of P4P has been over sold or whether the disappointing results to date are more likely rooted in problems of design and implementation or inadequate monitoring and evaluation The book also examines the supporting systems and process in addition to incentives that are necessary for P4P to improve provider performance and to drive and sustain improvement The book utilises a substantial set of case studies from 12 OECD countries to shed light on P4P programs in practice Featuring both high and middle income countries cases from primary and acute care settings and a range of both national and pilot programmes each case study features Analysis of the design and implementation decisions including the role of stakeholders Critical assessment of objectives versus results Examination of the of net impacts including positive spillover effects and unintended consequences The detailed analysis of these 12 case studies together with the rest of this critical text highlight the realities of P4P programs and their potential impact on the performance of health systems in a diversity of settings As a result this book provides critical insights into the experience to date with P4P and how this tool may be better leveraged to improve health system performance and accountability This title is in the European Observatory on Health Systems and Policies Series **Paying for Performance in Health Care Implications for Health System Performance and Accountability** OECD, World Health Organization, 2014-10-06 This report examines recent activation policies in the United Kingdom aimed at moving people back into work It offers insight into how countries can improve the effectiveness of their employment services and also control spending on benefits *Health Systems Analysis for Better Health System Strengthening* Peter Berman, Ricardo Bitran, 2013 Health system strengthening and reform are often necessary actions to achieve better outcomes The World Bank's 2007 strategy for health nutrition and population emphasizes the importance of health system strengthening for results This paper proposes health systems analysis as a distinct methodology that should be developed and practiced in the design of policies and programs for health system strengthening It identifies key elements of health systems analysis and situates them in a logical framework supported by a wide range of data and methods and a sizable global literature Health systems analysis

includes evidence on health system inputs processes and outputs and the analysis of how these combine to produce the outcomes It considers politics history and institutional arrangements Health systems analysis proposes causes of poor health system performance and suggests how reform policies and strengthening strategies can improve performance It contributes to implementation and evaluation Examples from Mexico Ethiopia and Turkey illustrate the positive contributions health systems analysis has made to development of successful health system strengthening policies Health systems analysis should be an integral part of good practice in health system strengthening efforts including planning policy development monitoring and evaluation Health systems analysis can be conceived in a coherent and logical fashion and can be practiced and improved

Textbook of Medical Administration and Leadership Erwin Loh,Paul W. Long,Peter Spurgeon,2018-12-19 This textbook covers all general areas of knowledge required for a trainee generalist medical administrator and doctor undergoing training to be a medical administrator specialist Chapters cover all the key topics on medical administration and leadership Some of the key topics included are health systems and policy health law private health and insurance health disaster planning population and public health health information and technology and health economics and financial management Medical practitioners of today are part of huge changes in medical practice as continuing developments are happening in biomedical sciences and clinical practice with new health priorities rising expectations among patients and the public and changing societal attitudes Consequently basic knowledge and skills while fundamentally important are not enough today on their own and doctors thus need to demonstrate leadership combined with sound management skills to drive the necessary changes required to meet the challenges head This book serve as an invaluable resource for a wide spectrum of physicians including specialists clinician managers and other health professionals as well as non clinical managers working in health This is a gateway text for trainees in medical administration specialist medical administrators aspiring medical managers health service managers and heads of service and departments in various medical specialties

Making Health Systems Work in Low and Middle Income Countries Sameen Siddiqi,Awad Mataria,'Awaḍ Maṭarīyah,Katherine D. Rouleau,Meesha Iqbal,2022-12-29 This internationally authored textbook demystifies the complexities that health systems pose in Low and Middle Income Countries

Health Systems Analysis Ralph W. Swain,1981

Building a High-Value Health System Rifat Atun,Gordon Moore,2021 Through global case studies and detailed guidance Building a High Value Health System provides analytical tools and functional skills for designing and implementing a health system that fits a population s needs

Hospital efficiency analysis in England and Germany. What lessons can be learned from each other? Lucas Fandrey,2016-03-09 Master s Thesis from the year 2015 in the subject Medicine Hospital Environment Clinical Medicine grade 80 University of Hertfordshire language English abstract This report analyses the efficiency of hospitals in England and Germany Data Envelopment Analysis DEA is utilised to estimate a best practice frontier and to evaluate the performance characteristics of different hospitals in the two countries

The measurement categories of input factors are represented by the hospital size amount of beds number of wards number of employed medical specialists sum of total inpatient admissions demographic environment population density in population km² and one output factor mortality rates Regarding these factors the main findings reveal that the allocation of inefficient hospitals in England is broadly spread and therefore the mean efficiency value of hospitals in England is 44% whereas 100% describes efficient units In contrast the mean efficiency value of German hospitals equates to 91% Consequently the allocation of inefficient German hospitals is less spread and the overall performance of hospital health supply is more efficient in Germany compared to England Most remarkably the amount of inpatient admissions is one of the main drivers for efficiency and especially the English hospitals suffer from high numbers of inpatient admissions which may be reduced due to improvements in the primary healthcare supply provided by general practitioners

Analysing Health Systems to Make Them Stronger Josefiën Van Olmen, Bart Criel, Wim Van Damme, Bruno Marchal, Sara Van Belle, Monique Van Dormael, Tom Hoeree, Marjan Pirard, Guy Kegels, ITG Press, 2010 The attention for Health Systems and Health Systems Strengthening has re-emerged in the frontlines of global debate since several years This document aims to clarify the authors ideas and visions on HS development by presenting a framework for description and analysis The book outlines a framework that can be used by anybody wishing to analyze and strengthen HSs and it elaborates a vision for discussion

Technical Report Series, 1987

Trading and Money Management in a Student-Managed Portfolio, 2013-11-01 Trading and Money Management in a Student Managed Portfolio is a hands on textbook for student managed investment funds SMIFs The book presents the applied material that textbooks on portfolios and investments always overlook Its focus on how to questions summarizes the disciplines and skills necessary for trading Covering equities hedge funds and derivatives and fixed income it captures the breadth and detail necessary for developing and executing trading strategies Developed specifically for SMIF courses the book features calculations examples and software that help you move from talking about markets to taking positions in them Methodically summarizes the disciplines and skills necessary for trading Teaches you to build a ranking model for securities and write a research report for a sell side firm Covers equities fixed income derivatives and hedge funds

Cost/benefit Analysis in Mental Health Services World Health Organization. Regional Office for Europe, 1976

Hospital and Health Services Review, 1983

Information Systems for Health Services Gordon McLachlan, 1980

Designing and Conducting Health Systems Research Projects Corlien M. Varkevisser, Indra Pathmanathan, Ann Templeton Brownlee, 2003 This two volume set presents a course outline in modular format that deals step by step with the development of a Health Systems Research HSR proposal and field testing Part 1 and with data analysis and report writing Part 2

Comparative Health Policy, Second Edition Robert H. Blank, Viola Burau, 2007-07-15 This wide ranging text assesses the extent to which policy problems and responses in different countries have common causes or spring from specific national circumstances systematically comparing Australia Germany Japan New Zealand the Netherlands Sweden Singapore the UK

and the US but ranging more widely as appropriate The fully revised second edition includes an additional chapter on the politics of health and an increased focus on the individual patient in different systems **Hospitals and the Health Care Revolution** Leslie Paine,F. Siem Tjam,1988 The opening chapters characterize the main features of this health care revolution and track its historical origins Readers are then introduced to the ideology of the revolution with chapters explaining how hospital and primary health care services are becoming increasingly interrelated and why a system of care based in health districts needed to be established A chapter devoted to the district health system explains exactly what constitutes such a system and why it should be considered as essential to the sort of health care revolution that can make sustained improvements in the health of humanity **NurseAdvance Collection on Resources for Implementing Evidence-based Nursing** ,2006 *Oxford Textbook of Public Health: Methods of public health* Walter Werner Holland,Roger Detels,1997

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