

RESEARCH ARTICLE

Performance evaluation of national healthcare systems in the prevention and treatment of non-communicable diseases in sub-Saharan Africa

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Abstract

Background

Non-communicable diseases (NCDs) remain a major public health concern globally, threatening the achievement of sustainable development goal 3.4 (SDG 3.4), which seeks to reduce premature NCD-related deaths by one-third by 2030. According to the World Health Organization (WHO), improving the efficiency of NCD spending (i.e., maximizing the impact of every dollar spent on NCDs) is one of the strategic approaches for achieving SDG target 3.4. This study aims to assess the efficiency and productivity of NCDs spending in 34 sub-Saharan African (SSA) countries from 2015 to 2019.

Methods

The study employed the data envelopment analysis (DEA) double-bootstrap truncated and Tobit regressions, one-stage stochastic frontier analysis (SFA) model, the Malmquist productivity index (MPI), and spatial autocorrelation analysis to estimate NCDs spending efficiency, identify the context-specific environmental factors that influence NCDs spending efficiency, evaluate total productivity change and identify its components, and assess the spatial interdependence of the efficiency scores.

Results

The estimated average DEA bias-corrected NCD spending efficiency score was 87.3% (95% CI: 86.2–88.5). Additionally, smoking per capita, solid fuel pollution, alcohol use, governance quality, urbanization, GDP per capita, external funding for NCDs, and private domestic funding for NCDs healthcare services were found to be significantly associated with NCDs spending efficiency. The study also revealed a decline of 3.2% in the MPI, driven by a 10.6% technical regress. Although all countries registered growth in efficiency, except for the Central Africa Republic and DR Congo, the growth in efficiency was overshadowed by the decline in technical change. Global Moran's I test indicated the existence of

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Citation: Arhin K, Asante-Darko D (2023) Performance evaluation of national healthcare systems in the prevention and treatment of non-communicable diseases in sub-Saharan Africa. *PLoS ONE* 18(11): e0294653. <https://doi.org/10.1371/journal.pone.0294653>

Editor: Krishna Kumar Aryal, University of Bergen, UNIVERSITET I BERGEN, NORWAY

Received: April 25, 2023

Accepted: November 6, 2023

Published: November 16, 2023

Peer Review History: PLOS recognizes the benefits of transparency in the peer review process; therefore, we enable the publication of all of the content of peer review and author responses alongside final, published articles. The editorial history of this article is available here: <https://doi.org/10.1371/journal.pone.0294653>

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Data Availability Statement: The minimal data set underlying the results of the manuscript has been deposited in a publicly open repository with URLs of <https://osf.io/ncd/8151509m> and DOI of

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Federal Evaluations , Contains an inventory of evaluation reports produced by and for selected Federal agencies including GAO evaluation reports that relate to the programs of those agencies **Health Systems in Transition** Miguel A. González Block,Hortensia Reyes Morales,Lucero Cahuana-Hurtado,Alejandra Balandrán,Edna Méndez,2021-04-07 This is the first book to fully review the Mexican health system its organization and governance health financing health care provision health reforms and health system performance The book is based on the most recent data and focuses on the three main components that constitute Mexico s health system 1 employment based social insurance programs 2 public assistance services for the uninsured and 3 a private sector composed of service providers insurers and pharmaceutical and medical device manufacturers and distributors *Federal Program Evaluations* ,1982 Contains an inventory of evaluation reports produced by and for selected Federal agencies including GAO evaluation reports that relate to the programs of those agencies **Effective Supply Mechanism of Urban Public Goods** Baijun Wu, Maogang Tang, Zhen Li, 2025-03-17 This book meticulously elaborates on the theory of public goods supply delving into government supply market private supply voluntary supply and multi stakeholder cooperative supply mechanisms It conducts a comparative analysis of public goods supply and supply mechanism reforms across various countries Not only does the book establish a model illustrating the relationship between public goods supply and economic growth but it also examines the historical evolution of China s urban public goods supply mechanism reform specifically within Chinese cities Through this work the book distills the unique characteristics of China s urban public goods provision and uncovers the underlying issues and influential factors in public goods supply Additionally it explores the evolutionary trajectory of urban public infrastructure and public services analyzing supply mechanisms and performance Ultimately the book delves into the policies governing urban public goods supply analyzing the decision making mechanisms and influencing factors of these policies and offering insightful suggestions for ensuring the effective supply of urban public goods in China **Health Systems Performance Assessment** Christopher J. L. Murray, David B. Evans, 2003-11-06 The World Health Report 2000 has generated considerable media attention controversy in some countries and debate in academic journals This volume brings together in one place the substance of many of these key debates and reports methodological advances and new empiricism reflecting the evolution of the WHO approach since the year 2000 Specifically the volume presents many differing regional and technical perspectives on key issues major new methodological developments and a quantum increase in the empirical basis for cross country performance assessment It also gives the full report of the Scientific Peer Review Group s exhaustive assessment of these new approaches Health System Performance Assessment Framework for Estonia OECD, 2023-06-15 The Health System Performance Assessment HSPA framework for Estonia acts as a tool for stakeholders and policy makers to guide health reforms in an evidence based and targeted manner This report outlines the Estonian HSPA framework and documents its development

through a highly inclusive and consultative process United States. Superintendent of Documents,1987 **Monthly Catalog of United States Government Publications** Administration,1979 Health planning reports subject index United States. Health Resources *Health System Performance Assessment Framework for the Czech Republic* OECD,2023-05-24 The health system performance assessment HSPA framework for the Czech Republic is an initiative designed to help the Czech health system improve policy planning monitoring and decision taking This report describes the HSPA framework for the Czech Republic its development process governance structure and implementation roadmap It also details the Czech HSPA framework domains populated by indicators selected through a comprehensive review process As such the framework enables the assessment of strengths and weaknesses of the Czech health system Its implementation will increase the accountability of national authorities and principal healthcare stakeholders improve public involvement smooth flow of information across the health sector and allow reform planning and monitoring *National Center for Health Services Research and Health Care Technology Assessment functions and program* ,1985 **Compendium of HHS Evaluations and Relevant Other Studies** HHS Policy Information Center (U.S.),1990 **The New Public Health** Theodore H. Tulchinsky,Elena A. Varavikova,2000-08-09 Countries around the world are engaged in health reform which places great demands on health care providers and systems managers From the managed care revolution in the United States to the rebuilding of health systems in postcommunist Russia these reforms impact millions of health care workers government officials patients and the public alike The New Public Health will help students and practitioners understand factors affecting the reform process of health care organization and delivery It links the classic public health issues such as environmental sanitation health education and epidemiology with the new issues of universal health care economics and management of health systems for the new century Provides a comprehensive overview of public health from a global perspective Assesses health systems models of the United States Russia the United Kingdom Germany Canada Scandinavian countries and developing countries including China Nigeria and Colombia Analyzes critical issues of health economics including forces associated with escalating costs and the strategies to control those costs Discusses strategies for dealing with the many ramifications of managed care Links medicine with the social sciences technology and health management issues as they evolve **Current Catalog** National Library of Medicine (U.S.),1992-10 Towards equitable health systems for universal health coverage (UHC) in sub-saharan africa John E. Ataguba,Juliet Nabyonga-Orem,Eugenia Amporfu,2023-06-23 *List of Journals Indexed for MEDLINE* ,2005 **Joint external evaluation of the International Health Regulations (2005) core capacities of Georgia** World Health Organization,2025-01-21 Over the past decade Georgia has shown considerable progress in terms of economic development and poverty reduction on its way from a lower middle to upper middle income country Despite positive indicators challenges persist such as an aging population One of the major priorities of the Georgian Government is to ensure universal access to quality and effective health care services for the population Although the public

spending on health care has increased significantly over the years the percentage of the gross domestic product 3.1% in 2022 is still considerably lower compared to countries in the European Union

Compendium of HHS Evaluation Studies HHS Evaluation Documentation Center (U.S.),1983

Hospital-Based Health Technology Assessment Laura Sampietro-Colom, Janet Martin, 2017-01-23 A timely work describing how localized hospital based health technology assessment HB HTA complements general arms length HTA agency efforts and what has been the collective global impact of HB HTA across the globe While HB HTA has gained significant momentum over the past few years expertise in the field and information on the operation and organization of HB HTA has been scattered This book serves to bring this information together to inform those who are currently working in the field of HTA at the hospital regional national or global level In addition this book is intended for decision makers and policy makers with a stake in determining the uptake and decommissioning of new and established technologies in the hospital setting HTA has traditionally been performed at the National Regional level by HTA Agencies typically linked to governments Yet hospitals are the main entry door for most health technologies HTs Hospital decision makers must undertake multiple high stakes investment and disinvestment decisions annually for innovative HTs usually without adequate information Despite the existence of arms length HTA Agencies inadequate information is available to hospital decision makers either because relevant HTA reports are not yet released at the time of entry of new technologies to the field or because even when the report exists the information contained is insufficient to clarify the contextualized informational needs of hospital decision makers Therefore there has recently been a rising trend toward hospital based HTA units and programs These units programs complement the work of National Regional HTA Agencies by providing the key and relevant evidence needed by hospital decision makers in their specific hospital context and within required decision making timelines The emergence of HB HTA is creating a comprehensive HTA ecosystem across health care levels which creates better bridges for knowledge translation through relevance and timeliness

The Evaluation of National Health Systems George Edward Cumper, 1991 As the demand for increasingly more diverse and complex health care grows many countries in the stages of development as well as those with more evolved health care systems need to evaluate health care at many levels including quality of health care budget planning and hospital costs administrative procedures policy and decision making and other areas In isolation individual small geographic areas clinics hospitals and projects have devised evaluation mechanisms yet these seem inadequate to evaluate health care on a national level Utilizing a broad spectrum of examples the author stresses the use of all available data on health system performance and a comparison with the standards the system is meant to meet These standards relate not only to biomedical matters but to administration resource use and public demand This unique approach examines the basic information standards techniques and results in the field of national health system evaluation and looks to the future of this important necessary process

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