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The stochastic frontier analysis technique in measuring the technical and economic efficiency of hospital diagnostic laboratories: a case study in Iran

Slamak Aghimand¹, Sadegh Feizollahzadeh², Behrouz Fathi¹, Hasan Yusefzadeh^{1*} and Mina Alinejhad¹

Abstract

An inefficient health system wastes scarce resources even if it makes considerable gains in accountability and equity. Such a system is expected to perform better. Therefore, it is vital to examine the current performance of health systems and their constituents and assess how to reach their maximum potential. This study aimed to evaluate the technical and economic efficiency of medical diagnostic laboratories in hospitals affiliated with Urmia University of Medical Sciences (UUMS) in 2016. In this descriptive-analytical study, data from diagnostic laboratories of the hospitals of UUMS have been inputted into Frontier_{4.1} software after taking the log of variables. Then, the technical and economic efficiency of the laboratories were obtained by estimating the production and cost function using the stochastic frontier analysis method, assuming input minimization for 2016. The mean technical and economic efficiency score of the diagnostic laboratories were determined to be 93.1% and 51.9%, respectively. These laboratories need to reduce their inputs and costs in order to achieve full efficiency without changing the amount of their output. Although the average economic efficiency of the diagnostic laboratories of the studied hospitals was high, there is still an increase in the efficiency of these units, given the cost of inputs at the time of allocating resources. In addition, it is possible to improve the technical efficiency of the clinical laboratories of hospitals affiliated with UUMS by 48.1% by applying the same level of inputs and without increasing the costs.

Keywords: Hospital, Diagnostic laboratory, Stochastic frontier analysis, Economic efficiency

Introduction

Measuring the performance of hospitals' clinical laboratories as an important and costly unit is essential for their managers [1] as they can demonstrate its strengths and weaknesses, identify areas that need improvement, and increase productivity in the hospital [2].

A laboratory is where various operations such as empirical tests, measurements, and the analysis and

identification of materials and impurities are performed [3]. In this regard, medical diagnostic laboratories play an essential role in providing high-quality care to patients [4]. Now that communities have recognized the value of health, it is impossible to maintain community health, prevent the spread of infectious diseases, and combat genetic diseases without medical diagnostic laboratories [5].

The laboratory is a sensitive and vital work environment, employing specialized laborers in various fields and costly equipment. Its performance and efficiency require a great deal of attention [6]. In this regard, economic efficiency demonstrates the ability of the laboratory to

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A Stochastic Frontier Analysis Of Technical Efficiency Of

**António Afonso, João Tovar Jalles, Ana
Venâncio**

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Stochastic Frontier Analysis Subal C. Kumbhakar, C. A. Knox Lovell, 2003-03-10 This book develops econometric techniques for the estimation of production cost and profit frontiers and for the estimation of the technical and economic efficiency with which producers approach these frontiers Since these frontiers envelop rather than intersect the data and since the authors continue to maintain the traditional econometric belief in the presence of external forces contributing to random statistical noise the work is titled Stochastic Frontier Analysis Hb ISBN 2000 0 521 48184 8

Measurement of Technical Efficiency in Stochastic Frontier Analysis with Limited and Qualitative Dependent Variables Shih-Tang Hwu, 2017 As vividly demonstrated in Maddala 1983 limited and qualitative dependent variables are often encountered in modern econometric analysis However analytical methods for evaluating technical efficiency of stochastic frontier analysis can only be applied to continuous dependent variable This paper provides closed form formulae for evaluating the technical efficiency of stochastic frontier analysis with limited and qualitative dependent variables Monte Carlo experiments reveal that the finite sample performances of our formulae are promising

Technical Efficiency and Its Determinants, 2018 This paper disaggregates and explores the components of efficiency that contribute to the change in output scale of production and technical efficiency of sugar mills in Uttar Pradesh The efficiency concept defines the maximum level of output that can be obtained by using the same level of inputs in the production of a firm or industry The investigation of inefficiency effect is obviously useful for the growth and development of sugar mills To measure the efficiency level and its determinants of sugar mills operating in Uttar Pradesh by applying Stochastic Frontier Approach SFA data of 115 sugar mills for the year 2011 12 was collected It is found that the public limited company is most efficient while the public corporations are least efficient However the next best performing mills belong to individual proprietors In terms of ownership the state and central government jointly owned and wholly owned private sugar mills are found to be more efficient than others Further the sugar mills years of operation has positive relationship with efficiency but does not contribute significantly High efficiency is associated with privately owned sugar mills There is no difference between efficiency levels location wise It has been found that sugar mills are working at constant returns to scale and the efficiency level can be changed by changing the scale The technical changes would help the decision makers to realize the strengths and weaknesses that contribute to the growth and development of sugar mills

Essays on Estimating Efficiency and Productivity Using Stochastic Frontier Analysis Paul D. Melvin, 2008 The purpose of this dissertation is to apply stochastic frontier analysis methodology to the study of efficiency and productivity in industry and in education It is comprised of three separate studies employing stochastic frontier analysis First stochastic frontier analysis is used to study technical efficiency in Indian industry and its impact on India's recent economic growth The Indian economy has sustained a consistently high rate of growth since initiating economic reforms in the early 1990s This encouraging growth episode has the rest of the world watching their economic progress closely This

study examines the role of industrial productivity and efficiency in the post reform Indian economy by using the stochastic frontier production function model over the period 1998 through 2004 We find that industry in India has moved closer to the production frontier and the gap between the states with the highest and lowest technical efficiency in industry has narrowed across time Most of the growth in industrial output is attributed to total factor productivity As Indian industry approaches the production frontier growth will necessarily require further technological innovation and or increasing input resources In the second study efficiency of public education in Illinois is estimated Public education in the United States has received a great deal of attention from both constituents and policy makers alike over the past thirty years Identifying less efficient school districts and examining the sources of inefficiency has important policy implications School districts might improve efficiency by managing educational resources differently In this study we estimate technical efficiency for all three types of school districts in the state of Illinois K 12 public education system Technical efficiency in the Illinois school system averaged 90% for unit school districts 85% for elementary school districts and 82% for high school districts Possible factors associated with inefficiency in Illinois school districts are also investigated The percentage of student enrollment that qualifies as low income and the size of the school district are positively related to inefficiency School districts that have a larger percentage of teachers with advanced degrees are more efficient Having a lower ratio of students per administrator in a school district increases technical efficiency The final study analyzes efficiency among schools within a particular school district Efficiency of public high schools in the City of Chicago School District is estimated Technical efficiency of Chicago public high schools averaged 72% We also investigate possible factors associated with inefficiency The percentage of student enrollment that is chronically truant mobility rate and percentage of nonwhite students are all positively related to inefficiency Schools with higher parental involvement are more efficient Larger high schools display greater technical efficiency than smaller high schools

Analysis of Technical Efficiency of Small Holder Tef Producing Farmers Kumadebis Tamiru

Gemechu,2015-05-21 Determinants of Technical Efficiency in Oklahoma Schools Lee C. Adkins,Ronald L.

Moomaw,Oklahoma State University,2005

Advanced Mathematical Methods for Economic Efficiency Analysis

Pedro Macedo,Victor Moutinho,Mara Madaleno,2023-06-21 Economic efficiency analysis has received considerable worldwide attention in the last few decades with Stochastic Frontier Analysis SFA and Data Envelopment Analysis DEA establishing themselves as the two dominant approaches in the literature This book by combining cutting edge theoretical research on DEA and SFA with attractive real world applications offers a valuable asset for professors students researchers and professionals working in all branches of economic efficiency analysis as well as those concerned with the corresponding economic policies The book is divided into three parts the first of which is devoted to basic concepts making the content self contained The second is devoted to DEA and the third to SFA The topics covered in Part 2 range from stochastic DEA to multidirectional dynamic inefficiency analysis including directional distance functions the elimination and choice translating

algorithm benefit of the doubt composite indicators and internal benchmarking for efficiency evaluations Part 3 also includes exciting and cutting edge theoretical research on e g robustness nonparametric stochastic frontier models hierarchical panel data models and estimation methods like corrected ordinary least squares and maximum entropy

A Stochastic Production Frontier Analysis of Technical Efficiency in the Louisiana Sugar Cane Processing Industry Jason Laurence Johnson,1993 Stochastic Non-parametric Frontier Analysis in Measuring Technical Efficiency,2001

Technical Efficiency of Unorganised Food Processing Industry in India N. Padmavathi,2019 **Handbook on Public Sector Efficiency** António Afonso,João Tovar Jalles,Ana Venâncio,2023-03-02 Examining the increasingly relevant topic of public sector efficiency this dynamic Handbook investigates the context of constrained fiscal space and public funding sources using cross country datasets in areas including China India and sub Saharan Africa and OECD economies

Measuring Technical Efficiency in the National Health Service Adam Wagstaff,1987 **Towards Sustainable Development Goal of Zero Hunger: Exploring the Dynamic Relationships between Food Pricing, Agriculture, and Food Security** Noshaba Aziz,Wioletta Żukiewicz-Sobczak ,Ruishi Si,2025-10-16 United Nations Sustainable Development Goal SDG 2 aspires to eradicate hunger by 2030 emphasizing the intricate relationships between agriculture food security and nutrition However this noble pursuit faces formidable challenges in emerging countries due to a confluence of international disruptions Climate change the COVID 19 pandemic and geopolitical conflicts like the war in Ukraine have triggered sharp spikes in commodity prices amplifying food security concerns particularly in developing nations The Food and Agriculture Organization of the United Nations recently reported the highest global food price increase since the 1990s in March This commodity price inflation in turn reverberates across agriculture impacting not only a nation s economy but also its food production capacity Elevated commodity prices drive up the costs of agricultural inputs such as fertilizers pesticides and fuel compelling farmers to pass these expenses on to consumers in the form of higher food prices Moreover country specific economic factors within the agricultural sector including land ownership technology adoption farming practices and infrastructure further complicate the food security landscape Therefore the intricate interplay between commodity price inflation agriculture and food security is significantly influenced by a nation s unique economic dynamics within its agricultural sector Effectively addressing these challenges necessitates a blend of international and domestic policy measures to ensure that the benefits of agricultural progress reach the broader population Economics for Fisheries Management R. Quentin Grafton,2006 Using developments in microeconomic theory and with numerous case studies and examples this book shows how to measure efficiency productivity profitability and capacity of fishing fleets and how to improve fisheries management It is useful for those interested in understanding the problems in fisheries and how they may be overcome *Handbook of Production Economics* Subhash C. Ray,Robert G. Chambers,Subal C. Kumbhakar,2022-06-02 This three volume handbook includes state of the art surveys in different areas of neoclassical production economics Volumes

1 and 2 cover theoretical and methodological issues only Volume 3 includes surveys of empirical applications in different areas like manufacturing agriculture banking energy and environment and so forth The African Journal of Finance and Management ,2012 Market Structure Conduct Performance Hypothesis Revisited Using Stochastic Frontier Efficiency Analysis Saleem Shaik,North Dakota State University. Department of Agribusiness and Applied Economics,2009 Stochastic frontier analysis which is used to estimate the technical efficiency is extended to examine the market structure conduct and performance hypothesis for the U S trucking industry The technical efficiency measure takes into account not only the relationship between inputs used in the production of output but also simultaneously examine the importance of market structure conduct factors on the performance of the firm An empirical application to U S trucking carriers over the period 1994 2003 is examined Results reveal that the variables average haul average load debt to equity and market concentration significantly affected technical efficiency Capital fixed and variable input variables were significant in the production function equation **Agribusiness & Applied Economics Report** ,2009 *Essays on the Technical and Economic Efficiency of Broiler Production in Saudi Arabia* Kahlid Al-rwis,2001 *Technical Efficiency in Production and Resource Use in Sugar Cane* ,2006

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