

## Efficiency and Performance hospitals (A Strategy for Sustainable Development).

Fereshteh Farzianpour<sup>1\*</sup>, Amin Torabipour<sup>1\*</sup>, Maryam Najarzadeh<sup>2</sup>, Roya GHasemzadeh<sup>2</sup>  
Shayan Hosseini<sup>3</sup>

<sup>1</sup> Department of Health Management and Economics, School of Public Health,  
Tehran University of Medical Sciences- Tehran- Iran

[\\*farzianp@sina.tums.ac.ir](mailto:*farzianp@sina.tums.ac.ir)

[\\*torabi-a@ajums.ac.ir](mailto:*torabi-a@ajums.ac.ir)

<sup>2</sup> Rehabilitation Research Center of Muscle-Skeletal, School of Rehabilitation Sciences, Ahvaz  
Jundishapur University of Medical  
Sciences, Ahvaz, Iran

<sup>3</sup> Department of Electrical Engineering, Science and Research Branch, Islamic Azad University,  
Tehran, Iran  
hosseini-s@aut.ac.ir

### Abstract

**Introduction:** Efficiency and performance as the main bases of development are among the most important and common methods to evaluate and measure the functioning of an economic foundation such as hospital. **Objective:** This study intends to evaluate the efficiency of hospitals affiliated with Ahvaz University of Medical Sciences using Data Envelopment Analysis (DEA) method. **Method:** This descriptive-analytical study has used panel data to evaluate and analyze the efficiency of all hospitals of Ahvaz University of Medical Sciences (12 hospitals) during 2007 to 2010. Study variables includes "hospitalization admission", "bed occupancy percentage" and "number of surgeries" as the output variables and "number of active beds", "number of nurses", "number of physicians" and "number of non-clinical staff" as the input variables. Data was analyzed using Games software. **Results:** The average technical, technologic, scale and managerial efficiency change was 0.989, 1.008, 1.028, and 0.996 respectively. **Conclusion:** Finally studying the impact of other factors such as the quality of services and patients' satisfaction on hospitals' efficiency is recommended.

**Key words:** Strategy, Sustainable Development, Efficiency Performance, hospitals

### 1. Introduction

Improving public health across the society is a major goal of governmental plans in Islamic republic of Iran. Providing required facilities and resources and optimized utilization of them is

