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Evaluation of Efficiencies of Hospitals in Turkey Using Data Envelopment Analysis/ Türkiye’de Hastanelerin Etkinliğinin Veri Zarflama Analizi ile Değerlendirilmesi

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ABSTRACT

The purpose of this study is the performance assessment of the hospitals which belong to 81 city of Turkey. DEA was used as evaluation method for the performance assessment of the hospitals. The reports of Health Statistics 2014 published by the Ministry of Health build the base of this study. The number of the medical experts, nurses and other health workers also the bed capacity are used as input variable. Surgery operations, bed occupancy rate and number of inpatient are used as output variable. According to the results of DEA model that has four input and three output, hospitals of the eleven cities, was seen to be effective. Also, targets were determined for inactive hospitals. The advanced performance bettering of provinces where there are non effective hospitals is connected with the decreasing input of the amount of other health workers and nurses, as increasing output with the amount of bed fullness and surgery operations.

KEYWORDS Hospital; Performance; Data Envelopment Analysis; Efficiency

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