

## ABSTRAK

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Program Studi : S1 Manajemen Informasi Kesehatan  
Judul : Prediksi Persentase Penggunaan Tempat Tidur Dengan Pendekatan Metode *Least Square* dan *Moving Average* di Rumah Sakit Islam Jakarta Cempaka Putih Tahun 2019-2020

Indikator rawat inap yang digunakan untuk mengukur kinerja RS yaitu BOR (*Bed Occupancy Rate*). Untuk mengetahui apakah persentase nilai BOR di RS Islam Jakarta Cempaka Putih tahun 2019-2020 telah sesuai dengan standar yang telah ditetapkan oleh Depkes maka dilakukan perhitungan prediksi nilai BOR. Tujuan penelitian ini untuk memprediksi persentase nilai BOR. Penelitian ini menggunakan pendekatan deskriptif kuantitatif dengan metode *Least Square* dan *Moving Average*. Hasil perhitungan yang diperoleh menggunakan metode *Least Square* didapatkan nilai BOR yang mengalami penurunan tiap tahunnya dimana tahun 2019 triwulan 1 sebesar 45,67%, triwulan 2 sebesar 44,74%, triwulan 3 sebesar 43,79%, dan triwulan 4 sebesar 42,48%, pada tahun 2020 triwulan 1 sebesar 41,89%, triwulan 2 sebesar 40,94%, triwulan 3 sebesar 39,99%, dan triwulan 4 sebesar 39,04% sedangkan pada metode *Moving Average* diperoleh nilai BOR mengalami penurunan yang bervariasi dengan persentase tahun 2019 triwulan 1 sebesar 52,39%, triwulan 2 sebesar 48,06%, triwulan 3 sebesar 40,97%, dan triwulan 4 sebesar 42,97%, pada tahun 2020 triwulan 1 sebesar 48,82%, triwulan 2 sebesar 44,73%, triwulan 3 sebesar 38,08%, dan triwulan 4 sebesar 39,88%. Metode terbaik yang digunakan dalam perhitungan prediksi nilai BOR menggunakan model *Mean Absolute Deviation* dan *Mean Squared Error* adalah metode *Least Square* karena memiliki nilai error terkecil.

**Kata Kunci:** Bed Occupancy Rate, Prediksi, *Least Square*, *Moving Average*.

## ***ABSTRACT***

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Program Study : S1 Health Information Management  
Title : Percontation Prediction of Bed Using a Least Square and Moving Average Method Approach at Jakarta Islamic Hospital Cempaka Putih Year 2019-2020

Inpatient indicators used to measure the performance of hospitals are BOR (Bed Occupancy Rate). To find out whether the percentage of BOR values at the Jakarta Cempaka Putih Islamic Hospital in 2019-2020 is in accordance with the standards set by the Ministry of Health, the prediction of BOR values is calculated. The purpose of this study was to predict the percentage of BOR values. This research uses a quantitative descriptive approach with Least Square and Moving Average methods. Calculation results obtained using the Least Square method show that the value of BOR has decreased every year where in 2019 quarter 1 amounted to 45.67%, quarter 2 amounted to 44.74%, quarter 3 amounted to 43.79%, and quarter 4 amounted to 42.48 %, in 2020 quarter 1 was 41.89%, quarter 2 was 40.94%, quarter 3 was 39.99%, and quarter 4 was 39.04% whereas in the Moving Average method the BOR value had decreased which varied with percentage in 2019 quarter 1 was 52.39%, quarter 2 was 48.06%, quarter 3 was 40.97%, and quarter 4 was 42.97%, in 2020 quarter 1 was 48.82%, quarter 2 was 44.73%, quarter 3 amounted to 38.08%, and quarter 4 amounted to 39.88%. The best method used in calculating the predicted BOR value using the Mean Absolute Deaviation and Mean Squared Error models is the Least Square method because it has the smallest error value.

***Keyword:*** *Bed Occupancy Rate, Prediction, Least Square Method, Moving Average Method.*