

## ABSTRACT

### **Inpatient Bed Utilization Efficiency Effort Through Capacity Planning Based On Demand And Supply Analysis In Asy-Syaafi Pamekasan General Hospital**

There were 3 changes that contributes to the high average BOR of inpatient department in Asy-Syaafi Pamekasan general hospital which reached 99,03% in 2014. Increased visits of hospitalized patients with the condition of human resource and non-human resources capacity that remain will affected the quality of inpatient care. The research aims to provide recommendations inpatient department bed utilization efficiency efforts by developing of capacity planning based on the analysis of supply and demand in Asy-Syaafi Pamekasan General Hospital. This research is descriptive observational study with cross sectional design. The result of this research, there was gap between supply and demand utilization of beds in Asy-Syaafi Pamekasan General Hospital, where demand is higher than supply. The study showed that: 1). Total demand utilization of beds in Asy-Syaafi Pamekasan General Hospital in 2014 was 3.762 patients and 2015 was 4.760 patients. 2). The total estimated demand utilization of beds in Asy-Syaafi Pamekasan General Hospital in 2016 was 5.623 patients, in 2017 was 6.648 patients, in 2018 was 7.573 patients, in 2019 was 8.527 patients and in 2020 was 9.471 patients. 3). The results of the supply analysis showed that: a. Supply of specialist doctors and nurses are still less, while the general practitioner is appropriate. b. Supply of Size and type of room, number of beds and medical instruments are still lacking when compared to standard hospital class D according Decree No. 56 of 2014. 4). There was gap between supply and demand utilization of beds in Asy-Syaafi Pamekasan General Hospital, where demand is higher than supply in the aspects: Total supply of nurses compared to demand using formula of Ilyas less 11 nurses for 2014 and approximately less 7 nurses for 2015. By simulating BOR 80%, the number of bed for supply less as much as 9 beds for 2014 and less as much as 7 beds in 2015. The comprehensive supply of room care less 65 m<sup>2</sup> in 2014 and less 50 m<sup>2</sup> in the year 2015. 5). Recommendations are arranged in a matrix capacity planning with mostly priority strategy on Increase capacity for the efficiency utilization of inpatient beds Asy-Syaafi Pamekasan General Hospital for the next 5 years (2016-2020).

**Keyword :** Capacity Planning, Supply and Demand Analysis, Inpatient Department Hospital Bed Utilization Efficiency.