

ABSTRACT

Background

Time using is the key to the efficiency of the operating room, such as by minimizing unused time or maximizing the use of working time.

A.Vakkuri, R.Marjamaa and O.Kirvelä review that in order to increase the efficiency of the operating room can be based on eight aspects, including time, resources, facilities and infrastructure that is shortening the time required for the operation, change the way the existing work, monitor quality of work, use of tools in the data storage, concentrating on the continuity of the operation, preoperative examination, the increased availability of facilities, as well as improving the quality of operating room personnel.

According to Alex Macario, there are 8 metrics to evaluate the efficiency of the operating rooms which is consist of excess staffing costs due to OR allocation not being base on maximizing OR efficiency, start time tardiness, case cancellation rate on day of surgery, PACU admission delays, contribution margin per OR hour, turnover times, prediction bias and prolonged turnovers.

Data collected from January to February 2015 show that in GBPT Hospital Dr. Soetomo there were 1366 operations and 54 case cancellations, but there are no data regarding the efficiency of the operating room.

Research methods

Observational descriptive study recorded from medical record during the patient is in operating room GBPT Dr. Soetomo Surabaya.

Result

The research showed that the average number of operations performed are 2 operations per day, working hours of operating room was 6.4 hours per day, the average time to the first round started at 8:25 pm, the average time to complete 1 surgery is 142 minutes, the average time of anesthesia ready is 18 minutes, the average time to complete anesthetic action is 200 minutes, turnover average was 23.65 minutes, and there were 51 surgery cancellations.

Conclusion

Based on some parameters put forward by Alex Macario, namely start-time tardiness, case cancellation rate and turnover time that 2 out of 3 parameters indicate the operating room GBPT Dr. Soetomo Hospital Surabaya is efficient. For a start time of the average operation at 08:25 pm with average delay less than 45 minutes of schedule and turnover time of less than 40 minutes. But the case cancellation rate reached 6.48%, was slightly higher than the parameter.

Keywords

Operating room efficiency, start-time tardiness, surgery cancellation, turnover time.