

OPTIMUM UTILIZATION OF BED RESOURCES IN HOSPITALS- STOCHASTIC APPROACH A

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ABSTRACT

This paper is devoted to the application of waiting line theory to reduce waiting time in allotment of beds in hospital system. Ward-beds is a primary resource under the control of hospital management, yet bed management strategies employed in practice or discussed in the literature do not explicitly consider the stochastic, as well as relevant cost dynamics involved in the process.

Key Words: Arrival rate, Service Rate, Emergency Level, Average length of stay, Bed occupancy rate, Bed turnover rate.

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