Modeling of the Process of Medical Service in Medical and Preventive Institutions

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Abstract: The issues of modeling and machine implementation of the medical care process in medical institutions using the methods of the theory of queuing systems are discussed in this article. Particular attention is paid to calculating and evaluating the average number of requests in the buffer and serving devices, the average time spent by requests in the system; average waiting time for requests in the queue; number of free and busy service channels. A generalized algorithm for calculating of these indicators is proposed.

Key words: medical care, queuing system, number of patients treat, average interval of visits, average service time, service rules, random number generation

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