

Healthcare management engineering : what does this fancy term really mean? : the use of operations management methodology for quantitative decision-making in healthcare settings

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Abstrak

This Briefs Series book illustrates in depth a concept of healthcare management engineering and its domain for hospital and clinic operations. Predictive and analytic decision-making power of management engineering methodology is systematically compared to traditional management reasoning by applying both side by side to analyze 26 concrete operational management problems adapted from hospital and clinic practice. The problem types include, clinic, bed and operating rooms capacity, patient flow, staffing and scheduling, resource allocation and optimization, forecasting of patient volumes and seasonal variability, business intelligence and data mining, and game theory application for allocating cost savings between cooperating providers.