Application of Business Intelligence in Health Care

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Abstract

Business intelligence is a set of abilities, technologies and tools for providing new solutions to better understand managers or users of business conditions. Business intelligence encompasses the technology of collecting, integrating and analyzing data and displaying them graphically, and facilitates decision-making for managers, even in hospitals and other health centers. Clinical business intelligence is a tool that hospitals help to increase productivity, reduce operational costs and optimize costs. This system uses dashboards to display data. The utilization of hospital dashboards in the field of health is growing, which is used in various medical departments such as pharmacy, radiology and emergency ward. Hospital dashboards by displaying graphical illustrations through the management dashboards interact more with information and accessible through a hospital network where the user can choose their level of access. Furthermore, performance monitoring, medical errors and optimization of treatment can be done through hospital dashboards. Research has shown that the use of hospital dashboards is a useful and effective way in care processes, therapeutic outcomes and the distribution of health information.

The main purpose of this review is to describe the role of business Intelligence in healthcare organizations. This study strives to reveal the applications of business Intelligence through clinical dashboards in hospital.

Keywords: Business intelligence, Health care, clinical information, Warehousing, Dashboards

Biography

Maryam Goodarzi is a Ph.D. candidate in Technology Management Department at Science and Research Branch, Islamic Azad University, Tehran, Iran. She received the M.Sc. degree in Industrial Engineering - system management and productivity from Tarbiat Modares University.

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