

## Healthcare Business Intelligence: A Primer

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### ABSTRACT

To succeed in a modern digital world, healthcare industry must be data-driven.

Hospitals and healthcare institutions desire to make their workflows more efficient in order to meet demand. One way they can achieve this is with the help of business intelligence (BI) software. BI refers to the acquisition, correlation, and transformation of data into insightful and actionable information through analytics. Utilizing a BI software is an indispensable part of the growth process toward becoming data-driven. In the modern healthcare environment, almost all BI initiatives will be driven by data analytics. This paper provides a brief examination of the deployment and constraints of business intelligence in healthcare.

### INTRODUCTION

To turn any business into a profit-making enterprise requires that the work force make wise decisions which depend on the available information. This is where business intelligence comes in. Business intelligence (BI) refers to technologies, applications, and practices for the collection, integration, analysis, and presentation of business information and also sometimes to the information itself. It is a broad term to describe a set of methods, processes, and technologies that transform raw data into meaningful and useful information to support business operation. It may also be regarded as a collection of decision support technologies for the enterprise aimed at enabling professionals make better and faster decisions. The purpose of BI is to support better business decision-making. Business Intelligence (BI) refers to technologies, applications and practices for the collection, integration, analysis, and presentation of business information and also sometimes to the information itself [1]. Business intelligence (BI) also refers to a broad category of analytics, data warehousing and visualization tools. The purpose of BI is to support better business decision-making. Although BI is designed for the business environment, it can be used by government, universities, healthcare, and security.

In the United States, healthcare is undergoing dramatic change. The industry is shifting from historical fee-for-service to fee-for-value. It is in the middle of a digital revolution with massive amounts of data generated daily. Today's healthcare practitioners are facing the demand for information to comply with legal and customer requirements. Hospitals have their data spread out and

residing in several databases in the form of clinical data, administrative data, and external data [2]. BI is considered a possible solution to these challenges. It is a term used to represent tools, techniques, and systems that are useful in making informed, better decisions. BI system is developed to support decision-making domains such as hospital management, clinical decision support, and clinical research.

### BUSINESS INTELLIGENCE CONCEPT

The concept of business intelligence (BI) refers to the tools and systems that play a major role in the planning process of an organization. The tools represent BI in customer support, customer profiling, market research, product profitability, and business analysis.

The main objective of business intelligence is to enable business managers to have easy access to data, be able to conduct analysis, allow them to convert data into useful knowledge, and then make faster, better decisions [3]. BI software supports reporting, interactive analyses, visualization, and statistical data mining. People use business intelligence for many reasons such as the need to seek improvements in decision-making and competition and the need to seek efficiency.

Different types of data analytics can help hospitals and other healthcare organizations better serve patients in several ways [4]:

- Descriptive analytics. Shows what is happening or has been happening.
- Diagnostic analytics. Points to relationships and causes like tracing heart disease back to poor diets.

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# Business Intelligence A Primer

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