

BACKGROUND

Information systems play a critical role in enhancing quality management by enabling organizations to collect, process, analyze, and share accurate information for informed decision-making. The integration of information systems with quality management practices improves operational efficiency, ensures compliance with established standards, and supports continuous process improvement. This paper shows the relationship between information systems and quality management, highlighting how technologies such as enterprise resource planning (ERP), business intelligence (BI), and quality management information systems (QMIS) contribute to performance monitoring, error reduction, and increased customer satisfaction. It also discusses the challenges organizations face during implementation, including system integration, data security, employee training, and organizational change. The study concludes that effective use of information systems strengthens quality management initiatives by providing timely, reliable, and data-driven insights that promote operational excellence and long-term organizational success. This study was conducted to provide information as a knowledge enhancement. According to Borycki, (2024) Nursing informatics researches continue to lead the way forward, influencing nursing and health care around the world.

PURPOSE

The purpose is to investigate and demonstrate the relationship between information systems and quality management practices within organization and it's importance on daily nursing practice.

METHODS

Literature review was performed.

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RESULTS

The study concludes that effective use of information systems strengthens quality management initiatives by providing timely, reliable, and data-driven insights that promote operational excellence and long-term organizational success. This study was conducted to provide information as a knowledge enhancement.

CONCLUSIONS

The conclusion of this study is that nursing informatics it is a vital part of our daily nursing practice because it allows us to provide safe, effective and patient-centered care. According to the ANA (2020), Nursing informatics improves patient safety and clinical efficiency by combining nursing science with information technology to optimize health data management. Integrating information systems with quality management practices improves operational efficiency, ensures compliance with established standards, and supports continuous process improvement. According to Hess and Alper (2024), Nursing informatics is firmly embedded in the use of technology to improve nursing care and science.

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