



University: MidOcean University

College: College of Management

Department/Specialization: Master of Business Administration.

Research Title:

Digital Transformation in Project Management for Healthcare Compliance

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Introduction

Digital transformation is fundamentally reshaping project management across various industries, with healthcare being no exception. In healthcare, compliance with regulatory standards is critical, making effective project management essential for ensuring quality and safety. As digital tools, AI, and other technologies are integrated into project management, they offer new ways to enhance compliance. This study aims to explore how digital transformation in project management can address specific compliance challenges within healthcare, such as real-time monitoring and data security, while also addressing potential barriers to adoption.

Problem Statement

Healthcare compliance demands are increasingly complex, and traditional project management practices may fall short in meeting these requirements effectively. This study examines the role of digital transformation in enhancing compliance in healthcare project management and investigates the barriers to successful digital adoption. Specifically, it seeks to understand how digital tools and AI can streamline compliance tasks, improve data accuracy, and address resistance to change.

Importance of the Study

The study is significant for several reasons:

1. **Theoretical Significance:** Builds on existing literature that highlights the role of digital tools and AI in compliance, contributing to academic discussions on digital transformation in healthcare project management.
2. **Practical Significance:** Provides actionable insights for healthcare project managers on using digital tools to meet compliance needs more effectively, with an emphasis on data accuracy and real-time monitoring.
3. **Policy Implications:** Offers regulatory bodies insights into the benefits and challenges of digital transformation for compliance, potentially informing future policies on healthcare project management practices.

Objectives of the Study

1. To examine how digital transformation affects project management processes for healthcare compliance.
2. To evaluate the effectiveness of digital tools and AI in enhancing compliance monitoring and reporting.

3. To identify the primary challenges and resistance to digital adoption in healthcare project management.
4. To propose strategies for overcoming barriers to digital adoption and optimizing compliance processes.

Research Questions

1. How does digital transformation impact project management practices related to healthcare compliance?
2. What digital tools and AI applications are most effective for compliance management in healthcare projects?
3. What are the primary challenges to implementing digital transformation in healthcare project management?
4. How can project managers best overcome barriers to digital adoption to improve compliance outcomes?

Hypotheses of the Study

1. Digital transformation positively influences the efficiency and accuracy of compliance management in healthcare project management.
2. AI and digital tools improve real-time compliance monitoring and reduce human error.
3. Resistance to change is a significant barrier to adopting digital transformation in healthcare project management.
4. Enhanced digital tools lead to higher compliance rates by simplifying complex regulatory tasks.

Previous Studies

- **Common Themes:** Studies like McClelland & Mair (2020) and Jones & Berndt (2019) confirm that digital tools significantly aid compliance in healthcare project management, supporting this study's focus on using digital tools for regulatory adherence.
- **Key Trends:**

- *AI for Compliance*: Khan & Shah (2021) find that AI helps reduce errors and streamline compliance tasks, aligning with this research's goal of exploring AI's role in healthcare compliance.
- *Resistance to Digital Change*: Robinson & Reed (2019) discuss organizational and cultural resistance to digital transformation, a trend this study will address by proposing strategies for overcoming adoption barriers.
- **Methodologies**: Jones & Berndt (2019) use quantitative surveys to assess digital tools' impact on compliance, while Anderson & Wright (2019) utilize case studies. This research will adopt a mixed-methods approach, combining quantitative data from surveys with qualitative insights from healthcare project managers.
- **Unresolved Issues and Gaps**: While Smith & Nguyen (2022) suggest using data analytics for compliance monitoring, studies like Brown & Patel (2021) identify ongoing challenges like data security and regulatory complexity. This study aims to address these gaps by evaluating specific digital tools and strategies for simplifying compliance management.

Theoretical Framework of the Study

This research will draw on change management theories and digital transformation frameworks to understand how project management in healthcare adapts to technological advancements and navigates compliance challenges in a regulated environment.

Methodology and Research Methods

- **Research Design**: Descriptive and analytical, utilizing both qualitative and quantitative methods.
- **Data Collection**: Surveys will be conducted with healthcare project managers and compliance officers to assess digital tools' effectiveness, complemented by semi-structured interviews for qualitative insights.
- **Analysis Methods**: Quantitative data will be analyzed using SPSS, while qualitative data will be coded for themes related to digital transformation's impact on compliance.

Study Tools

1. **Survey Questionnaire**: To measure the effectiveness and impact of digital tools on compliance processes.

2. **Interview Guide:** Semi-structured questions for project managers to provide insights into the practical challenges and benefits of digital adoption in compliance.

Study Limitations

1. **Temporal Limitations:** Limited to the current state of digital tools and AI technologies in healthcare compliance.
2. **Spatial Limitations:** Focuses on healthcare organizations in Saudi Arabia.
3. **Scope:** Primarily examines digital transformation in project management for compliance, excluding other project management areas.

References

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