
A NARRATIVE REVIEW ON CHALLENGES AND OPPORTUNITIES FOR HOSPITAL INFORMATION SYSTEM INTEROPERABILITY GOVERNANCE

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ABSTRACT

INTRODUCTION: Governance of hospital information system (HIS) interoperability involves policies, processes, and structures to ensure seamless information exchange. Ineffective governance is a barrier to full interoperability, impacting data accuracy, security, and availability. OBJECTIVE: This narrative review aims to explore and synthesize existing literature on governance challenges and opportunities in achieving HIS interoperability. METHODOLOGY: The search was conducted using public search engines to access available online literature, including academic papers, organizational reports and news articles. The key search terms used were “hospital information system” “interoperability” and “governance”. RESULTS: Effective governance involves implementing policies, standards, and frameworks that ensure secure and accurate data exchange. However, challenges such as fragmented regulatory frameworks, lack of standardized policies and varying compliance requirements along with legal and ethical concerns regarding patient data privacy and security, persist. Despite these challenges, robust governance frameworks present significant opportunities to enhance HIS interoperability by promoting accountability and transparency, and encouraging the adoption of interoperable systems. CONCLUSION: Addressing these governance challenges and opportunities is crucial for establishing an integrated healthcare system with seamless data flow, thereby improving clinical decision-making, patient care coordination, and overall healthcare efficiency.

Keywords: Hospital information system, Governance, Interoperability, Challenges, Opportunities
