

Abstract

This study explores the influence of technology integration on healthcare delivery, specifically examining healthcare providers' perspectives through a mixed-methods approach. As technology continues to evolve in the healthcare sector, it is critical to understand its impact on the quality of care, efficiency, and provider satisfaction. The research aims to identify the key benefits and challenges healthcare providers experience with the adoption of digital tools, such as electronic health records (EHR), telemedicine, and decision-support systems.

The quantitative aspect of the study involves surveying healthcare providers across various disciplines to assess the extent of technology integration in their daily practices. The survey analyzes variables such as the perceived effectiveness of technology, ease of use, and the impact on patient outcomes. By evaluating patterns in provider responses, the research seeks to identify trends in technology adoption and any correlating factors influencing success or barriers to implementation.

In addition, the qualitative component consists of semi-structured interviews with healthcare providers, offering deeper insights into their experiences with technology integration. This component highlights how technological tools are reshaping workflows, communication, and patient care. The findings from both the quantitative and qualitative data aim to inform strategies for optimizing technology integration, ultimately supporting healthcare systems in enhancing service delivery, improving provider engagement, and ensuring better patient care outcomes.