

Digital Health Innovations in Public Health Surveillance

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Abstract. This paper explores the integration of digital health technologies in public health surveillance systems. It examines the benefits and challenges of using digital tools for data collection, analysis, and reporting. The study highlights successful case studies where digital innovations have enhanced disease monitoring and response. By evaluating current trends and future opportunities, the paper provides insights into improving public health outcomes through digital transformation.

Keywords: Digital Health, Public Health, Surveillance, Innovation, Technology

Introduction

The advent of digital health technologies has revolutionized public health surveillance, offering new opportunities for data collection, analysis, and disease monitoring. This paper explores how digital tools, such as mobile applications, wearable devices, and data analytics platforms, are being integrated into public health systems. These technologies enable real-time data access and improved accuracy in tracking disease outbreaks and health trends. However, challenges such as data privacy, interoperability, and resource allocation remain significant barriers to widespread adoption. By examining successful implementations and ongoing innovations, this paper discusses the potential for digital health to transform public health surveillance and improve health outcomes globally. The paper advocates for policies that support digital innovation while addressing ethical and logistical concerns.

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References

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