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Online Diagnostic Lab Reporting System

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Abstract: Online diagnostic lab reporting systems have emerged as a transformative technology in modern healthcare, offering a digital platform for the efficient transmission and interpretation of medical test results. This paper presents a comprehensive review of the literature surrounding online diagnostic lab reporting systems, examining their technological foundations, impact on healthcare delivery, privacy implications, and future directions. The study explores the benefits of these systems in enhancing patient engagement, streamlining communication between healthcare providers and patients, and facilitating data-driven decision-making. Additionally, it investigates the challenges associated with the integration of online lab reporting with electronic health records (EHRs), privacy and security concerns, and disparities in healthcare access and equity. By synthesizing findings from existing research studies and systematic reviews, this paper aims to contribute to a deeper understanding of the opportunities and challenges posed by online diagnostic lab reporting systems and their role in shaping the future of healthcare delivery.

Keywords: Online diagnostic lab reporting systems, Healthcare technology, Medical diagnostics, Electronic health records (EHRs), Telemedicine

