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Impact of Cloud Computing on Heart Disorders Diagnosis

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ABSTRACT

Cloud computing has a significant impact on the diagnosis of heart disorders by enhancing data management, accessibility, and analytical capabilities in the healthcare sector. With the increasing use of digital medical records, wearable devices, and diagnostic imaging, a large volume of cardiac data is generated daily. Cloud computing provides scalable storage solutions that allow hospitals and diagnostic centers to securely store and retrieve patient data in real time. Through cloud-based platforms, cardiologists can access electrocardiograms (ECGs), echocardiograms, and patient history remotely, enabling faster and more accurate diagnosis. Advanced cloud-supported analytics and artificial intelligence tools help in early detection of heart disorders by analyzing complex patterns in medical data that may not be easily identified through traditional methods. Additionally, cloud computing supports telemedicine, allowing specialists to diagnose and monitor heart patients in remote or underserved areas. This improves timely medical intervention and reduces the burden on healthcare infrastructure. Cloud-based systems also promote collaboration among healthcare professionals by enabling seamless data sharing while maintaining data security and privacy through encryption and compliance standards.