

Research on digital signature authentication services applied in workflow processing at Nam Dinh Obstetrics and Gynecology Hospital.

Vu Thu Thuy

Abstract: This study investigates the application of digital signature authentication services within the workflow processing system at Nam Dinh Provincial Obstetrics and Gynecology Hospital. As healthcare institutions increasingly transition to electronic medical records and paperless operations, ensuring the security, integrity, and legal validity of digital documents is paramount. The research analyzes the current workflow processes at the hospital, identifies bottlenecks related to manual signature verification, and proposes a model for integrating a digital signature authentication service. By examining the technical infrastructure, legal compliance, and user acceptance among medical and administrative staff, the study evaluates the feasibility and effectiveness of this digital transformation. Findings indicate that the implementation of digital signatures significantly reduces processing time, enhances data security, and improves overall operational efficiency. The research provides practical recommendations for deploying a secure, scalable authentication system tailored to the specific needs of a provincial maternity hospital, contributing to the broader goal of digitalizing Vietnam's healthcare sector.

Keywords: digital signature, authentication, workflow processing, maternity hospital