

ABSTRACT

Meliana Puspita Sari NIM 22134620016 <i>Diploma 3 Medical Record and Health Information Study Program Noor Huda Mustofa University</i>	Advisor M.Afif Rijal Husni S.ST., M.Kes NIDN.0721019601
THE EVALUATION OF ELECTRONIC MEDICAL RECORD DATA SECURITY AT THE KLINIK MATA UTAMA (KMU) BANGKALAN	
ABSTRACT <i>It is important to evaluate the data security system of Electronic Medical Records (EMR) at the Klinik Mata Utama (KMU) Bangkalan. Problems found such as weak internet connection, unavailability of the autosave feature, the habit of officers not logging out when leaving the PC, the absence of periodic updates to usernames and passwords, and the absence of SOPs related to access rights and data security, indicate that the system is not optimal in protecting patient medical information. This condition has the potential to pose a risk of data loss, service disruption, and violation of medical data confidentiality. Therefore, a thorough evaluation of the security aspects of EMR is urgent to ensure the protection of patient data and the continuity of safe and reliable health services. The purpose of study is to identify the data security of electronic medical records at the Klinik Mata Utama (KMU) Bangkalan.</i> <i>This research method used descriptive research with a qualitative approach. The subjects in this study were the chief medical record officer, 1 doctor, 1 nurse, 1 information, and 1 IT officer. The object of this research was the security of electronic medical record data at the Klinik Mata Utama (KMU) Bangkalan. The Data collection using observation and interview methods.</i> <i>The results showed that in terms of confidentiality, each user had a different username and password. In integrity, the system allows editing patient data by authorized parties with the approval of the doctor. Authentication was applied through electronic signatures by medical personnel and new patients. However, in terms of availability, there was no autosave feature, so storage was still manual and vulnerable to data loss. Access control had been regulated through SOPs managed by the central clinic. As for non-repudiation, the system had a history feature to track data changes that can only be edited on the same day by authorized parties.</i> <i>The autosave feature is essential to prevent data loss due to technical glitches or user negligence, thus maintaining the integrity and reliability of medical record data. Meanwhile, clear and consistently applied SOPs will help ensure every process runs according to safe and efficient procedures. The integration of both will have a positive impact on improving service quality and overall information system security.</i>	
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