

KAJIAN KEAMANAN DATA REKAM MEDIS ELEKTRONIK DI RUMAH SAKIT KRISTEN NGESTI WALUYO

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INTISARI

Latar Belakang : Rumah Sakit Kristen Ngesti Waluyo telah menerapkan sistem Rekam Medis Elektronik (RME) pada juli 2022 namun baru di bagian rawat jalan. Sistem RME memiliki fitur keamanan seperti akses privasi, izin, dan autentikasi pengguna. Namun, terdapat beberapa permasalahan terkait keamanan data, yaitu penyimpanan *username/password* di komputer bangsal berisiko. Data dokter tersimpan otomatis saat *login*, memungkinkan akses mudah bagi pihak lain sehingga kerahasiaan rekam medis terancam karena orang luar dapat mengubah data atas nama dokter.

Tujuan Penelitian : Mengetahui aspek keamanan data pada rekam medis elektronik di Rumah Sakit Kristen Ngesti Waluyo Parakan Temanggung.

Metode Penelitian : Penelitian menggunakan pendekatan deskriptif kualitatif.

Hasil : Aspek *privacy* RSK Ngesti Waluyo diterapkan untuk menjaga keamanan data dari orang yang tidak berhak mengakses. Aspek *Integrity* validasi data input yang ketat di RME membantu mencegah kesalahan data dan memastikan akurasi data. Aspek *authentication* RSK Ngesti Waluyo telah menerapkan penggunaan tanda tangan digital yang diverifikasi dengan memindai PDF, tetapi hanya digunakan oleh dokter. Aspek *availability* Sistem RME di RSK Ngesti Waluyo memiliki ketersediaan data yang baik, sehingga data dapat diakses dengan cepat dan mudah oleh pengguna yang berwenang. Aspek *access control* yaitu memberikan hak akses yang berbeda untuk pengguna yang berbeda dan terdapat super user yang memiliki hak akses penuh ke semua data RME. Aspek *non-repudiation* mencatat riwayat perubahan data, menyimpan riwayat perubahan data, dan membuat jejak audit.

Kesimpulan : RSK Ngesti Waluyo telah menerapkan langkah-langkah untuk memenuhi aspek privasi, integritas, autentikasi, ketersediaan, kontrol akses, dan non-repudiasi data RME. Hal ini menunjukkan komitmen rumah sakit dalam menjaga keamanan dan kerahasiaan data pasien.

Kata kunci : Rekam Medis Elektronik, Keamanan data

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ELECTRONIC MEDICAL RECORD DATA SECURITY STUDY AT NGESTI WALUYO CHRISTIAN HOSPITAL

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ABSTRACT

Background : Ngesti Waluyo Christian Hospital has implemented the Electronic Medical Record (RME) system in July 2022 but only in the outpatient department. The RME system has security features such as privacy access, permissions, and user authentication. However, there are several problems related to data security, namely the storage of usernames/passwords on ward computers is risky. Doctor's data is automatically saved when logging in, allowing easy access for other parties so that the confidentiality of medical records is threatened because outsiders can change the data on behalf of doctors.

Objectives: To determine the aspects of data security in electronic medical records at Ngesti Waluyo Christian Hospital Parakan Temanggung.

Method : This study used a qualitative descriptive approach.

Results : The privacy aspect of RSK Ngesti Waluyo is applied to maintain data security from people who do not have the right to access. Integrity Aspects of rigorous input data validation in RME help prevent data errors and ensure data accuracy. The authentication aspect of RSK Ngesti Waluyo has implemented the use of digital signatures that are verified by scanning PDFs, but are only used by doctors. The availability aspect of the RME system at RSK Ngesti Waluyo has good data availability, so that data can be accessed quickly and easily by authorized users. The acces control aspect is to provide different access rights for different users and there are super users who have full access rights to all RME data. The non-repudiation aspect records the history of data changes, stores the history of data changes, and creates an audit trail.

Conclusion : Ngesti Waluyo Hospital has implemented measures to meet the aspects of privacy, integrity, authentication, availability, access control, and non-repudiation of RME data. This shows the hospital's commitment to maintaining the security and confidentiality of patient data.

Keywords: *Electronic Medical Record, Data Security*

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