

**PROGRAM STUDI SARJANA TERAPAN MANAJEMEN INFORMASI  
KESEHATAN UNIVERSITAS IMELDA MEDAN**

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**Judul** : **Analisis Keamanan Data Rekam Medis Elektronik Di RSUD  
DR. RM Djoelham Pendekatan Kuantitatif Tahun 2025**

**ABSTRAK**

Penerapan Rekam Medis Elektronik (RME) menjadi salah satu langkah penting dalam mendukung transformasi digital layanan kesehatan. Namun, digitalisasi ini juga membawa tantangan baru, terutama terkait keamanan data pasien yang bersifat rahasia dan sensitif. Penelitian ini bertujuan untuk mengevaluasi tingkat keamanan data dalam sistem RME di RSUD Dr. RM Djoelham Binjai berdasarkan enam aspek utama: privasi, integritas, autentikasi, ketersediaan, kontrol akses, dan nir-sangkal. Metode penelitian yang digunakan adalah pendekatan kuantitatif dengan desain deskriptif analitik. Sebanyak 32 responden dipilih secara purposive, terdiri dari tenaga kesehatan, petugas rekam medis, dan staf IT yang aktif menggunakan sistem RME. Instrumen pengumpulan data berupa kuesioner tertutup dengan skala penilaian. Data yang terkumpul dianalisis secara deskriptif menggunakan distribusi frekuensi dan persentase. Hasil penelitian menunjukkan bahwa sebagian besar responden menilai keamanan sistem berada dalam kategori baik: privasi (90,6%), integritas (87,5%), autentikasi (87,5%), ketersediaan (90,6%), kontrol akses (90,6%), dan nir-sangkal (93,8%). Secara keseluruhan, 90,6% responden menyatakan bahwa sistem keamanan data sudah terpenuhi. Namun demikian, masih terdapat catatan pada aspek autentikasi dan integritas yang perlu ditingkatkan. Kesimpulannya, sistem keamanan RME di RSUD dr. RM Djoelham sudah cukup andal, namun tetap membutuhkan penguatan pada pelatihan pengguna dan sistem perlindungan berlapis agar dapat menjawab tantangan keamanan data di era digital.

**Kata Kunci** : *Rekam Medis Elektronik, Keamanan Data, Privasi, Sistem Informasi, RSUD Djoelham*  
**Daftar Pustaka** : *19 (2014-2024)*

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**ABSTRACT**

The implementation of Electronic Medical Records (EMR) is an important step in supporting the digital transformation of healthcare services. However, digitalization also brings new challenges, particularly regarding the security of sensitive and confidential patient data. This study aims to evaluate the level of data security in the EMR system at Dr. RM Djoelham Regional General Hospital, Binjai, based on six main aspects: privacy, integrity, authentication, availability, access control, and non-repudiation. A quantitative approach with a descriptive analytical design was used in this study. A total of 32 respondents were purposively selected, including healthcare staff, medical records officers, and IT personnel who actively use the EMR system. Data was collected using a closed-ended questionnaire with a rating scale, and analyzed descriptively through frequency distribution and percentage. The results indicate that most respondents rated the system's security as good: privacy (90.6%), integrity (87.5%), authentication (87.5%), availability (90.6%), access control (90.6%), and nonrepudiation (93.8%). Overall, 90.6% of respondents stated that data security requirements had been met. However, there are still notes for improvement in authentication and integrity. In conclusion, the EMR security system at Dr. RM Djoelham Regional General Hospital is reasonably reliable, but further strengthening is needed through user training and multi-layered protection measures to address data security challenges in the digital era.

**Keywords: Electronic Medical Records, Data Security, Privacy, System Information, Djoelham Regional General Hospital**

**References: 19 (2020–2024)**

