

ABSTRAK

UNIVERSITAS AISYIYAH PALEMBANG

FAKULTAS KESEHATAN DAN TEKNOLOGI PROGRAM STUDI

SARJANA TERAPAN MANAJEMEN INFORMASI KESEHATAN

Laporan Tugas Akhir

Juni 2026 (Larasati)

Evaluasi Keamanan Data Rekam Medis Elektronik di Fasilitas Kesehatan Indonesia Berdasarkan Kerangka HOT-Fit

XIV, 43 Halaman, 5 Tabel, 1 Daftar Singkatan, 9 Lampiran

Pendahuluan: Akselerasi digitalisasi pelayanan kesehatan melalui implementasi Rekam Medis Elektronik (RME) secara nasional telah meningkatkan kebutuhan terhadap pengelolaan data yang aman, terintegrasi, dan dapat ditelusuri. **Tujuan:** Penelitian ini bertujuan mengevaluasi kerentanan dan prioritas mitigasi keamanan informasi RME di fasilitas kesehatan Indonesia menggunakan kerangka *Human, Organization, Technology - Fit* (HOT-Fit). **Metode:** Penelitian menggunakan Systematic Literature Review berdasarkan PRISMA 2020. Penelusuran dilakukan melalui Google Scholar pada periode 2020-2026 dengan memprioritaskan publikasi yang lebih baru. Dari 315 naskah awal, 14 sumber relevan dipilih berdasarkan kriteria kelayakan untuk disintesis secara kualitatif. **Hasil:** Sintesis menunjukkan kerentanan berulang pada kontrol akses, keterlacakan perubahan data, perlindungan jaringan, pencadangan dan pemulihan, interoperabilitas, serta perilaku keamanan pengguna. Kerentanan tersebut saling berkaitan pada dimensi *Technology, Organization*, dan *Human*. **Kesimpulan:** Penguatan keamanan RME memerlukan pendekatan terpadu yang menggabungkan kontrol teknis, tata kelola organisasi, dan peningkatan kesadaran keamanan pengguna secara berkelanjutan. Prioritas perbaikan meliputi prinsip *least privilege*, akun individual, autentikasi berlapis, *audit trail*, *backup* dan *recovery* yang andal, segmentasi jaringan, monitoring, serta pendidikan keamanan berkelanjutan.

Kata Kunci: rekam medis elektronik, fasilitas kesehatan, keamanan informasi, kontrol akses, SATUSEHAT

Daftar Pustaka: 18 (2019-2026)

ABSTRACT

AISYIYAH UNIVERSITY OF PALEMBANG

FACULTY OF HEALTH AND TECHNOLOGY

APPLIED BACHELOR STUDY PROGRAM IN HEALTH INFORMATION
 MANAGEMENT

Final Project Report

June 2026 (Larasati)

Security Evaluation of Electronic Medical Record Data in Indonesian
 Healthcare Facilities Based on the HOT-Fit Framework

XIV , 43 Page, 5 Tables, 1 Lists of Abbreviotions, 11 Appendices

Introduction: The acceleration of digital health transformation through the national implementation of Electronic Medical Records (EMR) has shifted healthcare operations toward increasingly connected and data-intensive services. This development improves continuity and efficiency of care, but it also increases the need to protect confidentiality, integrity, availability, authentication, and access control. **Objective:** This study aims to systematically evaluate vulnerabilities and mitigation priorities in EMR information security across healthcare facilities in Indonesia using the Human, Organization, Technology - Fit (HOT-Fit) framework. **Methods:** This research employed a Systematic Literature Review based on PRISMA 2020. Literature was searched through Google Scholar for the period 2020–2026, with recent publications prioritized. From 315 initial records, 14 relevant sources were selected for qualitative synthesis based on predefined eligibility criteria. **Results:** The synthesis indicates recurring vulnerabilities in access control, auditability, network protection, backup and recovery, interoperability, and user security behavior. These vulnerabilities are interconnected across the Technology, Organization, and Human dimensions. **Conclusion:** Strengthening EMR security requires an integrated approach combining technical safeguards, organizational governance, and sustained user awareness. Priority actions include least-privilege access, individual accounts, stronger authentication, auditable data changes, reliable backup and recovery, network segmentation, monitoring, and continuous security education.

Keywords: electronic medical record, healthcare facilities, information security, access control, SATUSEHAT

References: 18 References (2019-2025)