

OVERVIEW OF ELECTRONIC MEDICAL RECORD INFORMATION
SECURITY READINESS BASED ON THE ISO/IEC 27001:2022 STANDARD
USING THE KAMI INDEX v5.0 AT PKU MUHAMMADIYAH GAMPING
HOSPITAL

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ABSTRACT

Background: The implementation of Electronic Medical Records (EMR) has increased the need for effective information security management to protect patient data. PKU Muhammadiyah Gamping Hospital has implemented an EMR system and requires an assessment of its information security readiness based on ISO/IEC 27001:2022 using the KAMI Index v5.0 Instrument.

Objective: To determine the information security readiness of the Electronic Medical Record system based on ISO/IEC 27001:2022 using the KAMI Index v5.0 at PKU Muhammadiyah Gamping Hospital.

Methods: This study employed a quantitative descriptive method with a cross-sectional design involving 12 respondents from the SIMRS Unit and the Medical Record Department of PKU Muhammadiyah Gamping Hospital. Data were collected using the KAMI Index v5.0 questionnaire and document observation, then analyzed descriptively based on the KAMI Index framework.

Results: The information security readiness assessment of the EMR system at PKU Muhammadiyah Gamping Hospital showed a score of 17 for the Electronic System Category, classified as “High.” The overall information security readiness score was 544, indicating the status of “Basic Framework Fulfillment” The information security areas achieved maturity levels ranging from Level I+ to Level II, while the third-party involvement (supplementary area) obtained a score of 51%.

Conclusion: The information security readiness of the EMR system at PKU Muhammadiyah Gamping Hospital has fulfilled the basic framework requirements of ISO/IEC 27001:2022. However, improvements are still needed in governance and information security risk management.

Keywords: Electronic Medical Records, Information Security, ISO/IEC 27001:2022, KAMI Index v5.0, PKU Muhammadiyah Gamping Hospital.

GAMBARAN KESIAPAN KEAMANAN INFORMASI REKAM MEDIS
ELEKTRONIK BERSTANDAR ISO/IEC 27001:2022 MENGGUNAKAN
INDEKS KAMI v5.0 DI RUMAH SAKIT PKU MUHAMMADIYAH
GAMPING

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ABSTRAK

Latar Belakang: Penerapan Rekam Medis Elektronik (RME) meningkatkan kebutuhan pengelolaan keamanan informasi untuk melindungi data pasien. Rumah Sakit PKU Muhammadiyah Gamping telah menerapkan RME dan memerlukan gambaran terkait kesiapan keamanan informasi berdasarkan ISO/IEC 27001:2022 menggunakan Instrumen Indeks KAMI v5.0.

Tujuan: Mengetahui kesiapan keamanan informasi RME berdasarkan ISO/IEC 27001:2022 menggunakan Indeks KAMI v5.0 di Rumah Sakit PKU Muhammadiyah Gamping.

Metode: Penelitian ini menggunakan metode deskriptif kuantitatif dengan desain *cross-sectional* yang melibatkan 12 responden dari Unit SIMRS dan Instalasi Rekam Medis Rumah Sakit PKU Muhammadiyah Gamping. Pengumpulan data dilakukan menggunakan kuesioner Indeks KAMI v5.0 dan observasi dokumen, kemudian dianalisis secara deskriptif menggunakan framework Indeks KAMI.

Hasil: Kesiapan keamanan informasi RME di Rumah Sakit PKU Gamping pada kategori sistem elektronik memperoleh skor 17 dengan kategori “Tinggi”. Hasil akhir kesiapan keamanan informasi memperoleh skor 544 dengan status “Pemenuhan Kerangka Kerja Dasar”. Area keamanan informasi berada pada Tingkat Kematangan I+ hingga Tingkat Kematangan II. Keterlibatan pihak ketiga (suplemen) memperoleh presentase sebesar 51%.

Kesimpulan: Kesiapan keamanan informasi RME di Rumah Sakit PKU Muhammadiyah Gamping telah memenuhi kerangka kerja dasar ISO/IEC 27001:2022. Namun, masih diperlukan peningkatan pada area tata kelola dan pengelolaan risiko keamanan informasi.

Kata Kunci: Rekam Medis Elektronik, Keamanan Informasi, ISO/IEC 27001:2022, Indeks KAMI v5.0, Rumah Sakit PKU Muhammadiyah Gamping.