

## Evaluasi Keamanan SIMPUS Berdasarkan Aspek *Confidentiality*, *Integrity*, *Availability* Di Puskesmas Sedayu II

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### INTISARI

**Latar Belakang:** Sistem Informasi Manajemen Puskesmas (SIMPUS) di Puskesmas Sedayu II berperan penting dalam menyimpan data dan riwayat kesehatan pasien secara digital. Meskipun sudah diterapkan, masih terdapat tantangan dalam menjaga keamanan data, terutama terkait kerahasiaan, keutuhan, dan ketersediaannya agar terhindar dari akses tidak sah, perubahan yang tidak valid, serta tetap dapat diakses saat dibutuhkan.

**Tujuan Penelitian:** Untuk mengetahui bagaimana keamanan Sistem Informasi Manajemen Puskesmas (SIMPUS) di puskesmas sedayu II, yang mencakup dalam aspek *confidentiality* (kerahasiaan), *Integrity* (Keutuhan) dan *availability* (ketersediaan).

**Metode Penelitian:** Penelitian ini menggunakan metode kualitatif dengan pendekatan deskriptif. Pengumpulan data yang dilakukan melalui wawancara dan observasi langsung secara mendalam terhadap petugas admisi SIK, pendaftaran, perawat dan dokter. Data kemudian dianalisis dengan teknik triangulasi sumber dan triangulasi teknik.

**Hasil:** Hasil penelitian diperoleh melalui wawancara dan *checklist* observasi mengenai aspek keamanan data yaitu *confidentiality* (kerahasiaan), *integrity* (keutuhan), *availability* (ketersediaan). Puskesmas sedayu II telah menerapkan hak aksesnya yang berupa *username* dan *password* pada setiap pengguna dan sudah memiliki fitur *logout* otomatis, tetapi dalam fitur *logout* otomatis ini memiliki waktu yang cukup lama bahkan bisa sampai 1 jam dan juga pada sistem belum terdapat log aktivitas pengguna.

**Kesimpulan:** Berdasarkan hasil penelitian dapat disimpulkan bahwa keamanan data pada puskesmas sedayu II sudah berjalan dengan baik, tetapi masih terdapat beberapa kendala dalam fitur *logout* otomatis yang memiliki waktu yang cukup lama dan belum memiliki log aktivitas.

**Kata Kunci:** Evaluasi, keamanan data, SIMPUS, *Confidentiality* (kerahasiaan), *Integrity* (keutuhan), *Availability* (ketersediaan), puskesmas.

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## **SIMPUS Security Evaluation Based on *Confidentiality, Integrity, Availability* Aspects at Sedayu II Community Health Center**

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### **ABSTRACT**

**Background:** The Community Health Center Management Information System (SIMPUS) at Sedayu II Community Health Center plays a crucial role in digitally storing patient data and health records. Despite its implementation, challenges remain in maintaining data security, particularly regarding confidentiality, integrity, and availability, ensuring it is protected from unauthorized access and invalid changes, and remains accessible when needed.

**Objectives:** To find out how secure the Health Center Management Information System (SIMPUS) is at Sedayu II Health Center, which includes aspects of *confidentiality, integrity and availability*.

**Methods:** This study used a qualitative method with a descriptive approach. Data collection was conducted through in-depth interviews and direct observation of SIK admissions officers, registration staff, nurses, and doctors. The data were then analyzed using source and technical triangulation techniques.

**Results:** The research results were obtained through interviews and observation checklists regarding data security aspects, namely confidentiality, integrity, and availability. Sedayu II Health Center has implemented access rights in the form of a username and password for each user and already has an automatic logout feature. However, this automatic logout feature has a fairly long time, even up to 1 hour, and there is no user activity log in the system.

**Conclusion:** Based on the research results, it can be concluded that data security at the Sedayu II Community Health Center has been running well, but there are still several obstacles in the automatic *logout* feature which takes quite a long time and does not yet have an activity log.

**Keywords:** Evaluation, data security, SIMPUS, *Confidentiality, Integrity, Availability*, health center.

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