

## ABSTRAK

Implementasi sistem informasi berbasis digital dalam pengelolaan inventaris aset peralatan medis menjadi salah satu upaya rumah sakit dalam meningkatkan efektivitas pengelolaan aset dan mutu pelayanan kesehatan. Manajemen inventaris peralatan medis yang tepat merupakan kunci untuk memudahkan pengelolaan peralatan medis. Penelitian ini bertujuan untuk mengevaluasi implementasi aplikasi Trilux CMMS+ dalam optimalisasi inventaris aset peralatan medis di RSUD Arifin Achmad Provinsi Riau.

Penelitian menggunakan metode kualitatif dengan desain studi kasus instrumental (*instrumental case study*). Pengumpulan data dilakukan melalui wawancara mendalam dan observasi langsung terhadap tujuh informan (kepala instalasi, koordinator inventaris, staf inventaris, staf manajemen, dan teknisi elektromedis). Validitas data dilakukan melalui triangulasi sumber, triangulasi metode, dan triangulasi waktu.

Hasil penelitian menunjukkan bahwa implementasi aplikasi Trilux CMMS+ telah membantu proses inventarisasi aset peralatan medis menjadi lebih mudah, cepat, dan terstruktur melalui penggunaan sistem digital dan QRcode. Implementasi aplikasi juga meningkatkan akurasi data inventaris, efisiensi operasional, monitoring aset, transparansi pengelolaan aset, serta mendukung kesiapan akreditasi rumah sakit.

Namun, masih ditemukan kendala keterbatasan SDM, jaringan internet yang belum stabil, serta keterlambatan pembaruan data inventaris. Oleh karena itu, diperlukan peningkatan kapasitas SDM, penguatan infrastruktur teknologi informasi, dan peningkatan kedisiplinan pembaruan data inventaris agar implementasi aplikasi dapat berjalan lebih optimal.

**Kata kunci:** implementasi aplikasi, inventaris aset, peralatan medis, sistem informasi, rumah sakit.

## **ABSTRACT**

*The implementation of digital-based information systems in the management of medical equipment inventory has become one of the hospital's strategic efforts to improve asset management effectiveness and the quality of healthcare services. Proper medical equipment inventory management plays an important role in facilitating the management and monitoring of medical devices. This study aimed to evaluate the implementation of the Trilux CMMS+ application in optimizing the inventory management of medical equipment assets at RSUD Arifin Achmad Provinsi Riau.*

*This study employed a qualitative method with an instrumental case study design. Data were collected through in-depth interviews and direct observations involving seven informants, consisting of the head of installation, inventory coordinator, inventory staff, management staff, and electromedical technicians. Data validity was ensured through source triangulation, method triangulation, and time triangulation.*

*The results showed that the implementation of the Trilux CMMS+ application facilitated the medical equipment inventory process, making it easier, faster, and more structured through the use of a digital system and QRcode technology. The implementation of the application also improved inventory data accuracy, operational efficiency, asset monitoring, transparency in asset management, and supported hospital accreditation readiness.*

*However, several challenges were still identified, including limited human resources capacity, unstable internet networks, and delays in updating inventory data. Therefore, efforts are needed to enhance human resource capacity, strengthen information technology infrastructure, and improve discipline in regularly updating inventory data to ensure a more optimal implementation of the application.*

**Keywords:** *application implementation, asset inventory, medical equipment, information systems, hospital.*