

REDESIGN AND DESIGNING THE USER INTERFACE FOR ANALYSIS THE COMPLETENESS OF ELECTRONIC MEDICAL RECORDS FOR INPATIENTS USING THE USER CENTERED DESIGN (UCD) METHOD AT PRAMBANAN REGIONAL HOSPITAL

Nandita Putri Maharani¹, Munica Rita Hernayanti², Syarah Mazaya Fitriana³
^{1,2,3} Program Study in Medical Record and Health Information Poltekkes

Kemenkes Yogyakarta

Jl. Mangkuyudan MJ III/304, Mantrijeron, Yogyakarta

Email : nanditaputri182@gmail.com, munica.ritah@poltekkesjogja.ac.id,
syarah.fitriana@poltekkesjogja.ac.id.

ABSTRACT

Background: Medical records include data on patient service journeys, identity, examination results, treatment, and health actions as regulated by the Regulation of the Minister of Health of the Republic of Indonesia Number 24 Of 2022. The implementation of quantitative and qualitative analysis of the completeness of electronic medical records at Prambanan Regional Hospital still faces obstacles in the interface displays, namely not being integrated, lacking features, and menus which hamper the performance of officers.

Objective: Analyze user problems and needs, designing interface designs, and evaluating the results of the interface design analysis of the completeness of inpatient electronic medical records at Prambanan Regional Hospital.

Method: The type of R&D research uses a qualitative approach, the data collection method is observation and interview with 8 informants, and the User Centered Design (UCD) design method in redesigning and designing the interface displays.

Result: The research results showed several user constraints related to the inpatient electronic medical record completeness analysis interface, leading to a redesign and design of the interface, which can be accessed at <https://bit.ly/AnalisisKelengkapan>. The evaluation and usability testing results indicated that users were satisfied with the developed interface design.

Conclusion: Redesigning and designing the interface displays for analyzing the completeness of inpatient electronic medical records using the User Centered Design (UCD) method is able to increase efficiency and suitability to user needs.

Keywords: electronic medical records, user centered design, interface design, analysis of completeness of electronic medical records.

REDESAIN DAN PERANCANGAN TAMPILAN ANTARMUKA ANALISIS KELENGKAPAN REKAM MEDIS ELEKTRONIK PASIEN RAWAT INAP MENGGUNAKAN METODE *USER CENTERED DESIGN* (UCD) DI RSUD PRAMBANAN

Nandita Putri Maharani¹, Munica Rita Hernayanti², Syarah Mazaya Fitriana³
^{1,2,3} Program Studi Rekam Medis dan Informasi Kesehatan Poltekkes Kemenkes
Yogyakarta

Jl. Mangkuyudan MJ III/304, Mantrijeron, Yogyakarta

Email : nanditaputri182@gmail.com, munica.ritah@poltekkesjogja.ac.id,
syarah.fitriana@poltekkesjogja.ac.id.

ABSTRAK

Latar Belakang: Rekam medis mencakup data perjalanan pelayanan pasien, identitas, hasil pemeriksaan, pengobatan, dan tindakan kesehatan yang diatur oleh Peraturan Menteri Kesehatan RI Nomor 24 Tahun 2022. Implementasi analisis kuantitatif dan kualitatif kelengkapan rekam medis elektronik di RSUD Prambanan masih terdapat kendala pada tampilan antarmuka yaitu belum terintegrasi, fitur dan menu yang kurang sehingga menghambat kinerja petugas.

Tujuan: Menganalisis permasalahan dan kebutuhan pengguna, merancang desain antarmuka, serta mengevaluasi hasil desain antarmuka analisis kelengkapan rekam medis elektronik rawat inap di RSUD Prambanan.

Metode: Jenis penelitian R&D dengan pendekatan kualitatif, metode pengumpulan data adalah observasi dan wawancara dengan jumlah informan 8 orang, dan metode desain *User Centered Design* (UCD) dalam redesain dan perancangan tampilan antarmuka.

Hasil: Hasil penelitian menunjukkan bahwa terdapat beberapa kendala pengguna terkait tampilan antarmuka analisis kelengkapan rekam medis elektronik rawat inap sehingga dilakukan redesain dan perancangan tampilan antarmuka yang dapat diakses pada link: <https://bit.ly/AnalisisKelengkapan>. Hasil evaluasi dan uji kegunaan menunjukkan bahwa pengguna merasa puas terhadap hasil desain tampilan antarmuka yang telah dikembangkan.

Kesimpulan: Redesain dan perancangan tampilan antarmuka analisis kelengkapan rekam medis elektronik rawat inap menggunakan metode *User Centered Design* (UCD) mampu meningkatkan efisiensi dan kesesuaian dengan kebutuhan pengguna.

Kata Kunci: rekam medis elektronik, *user centered design*, desain tampilan antarmuka, analisis kelengkapan rekam medis elektronik.