

**DESIGN OF A USER INTERFACE FOR THE ELECTRONIC PRE-
OPERATION AND POST-OPERATION HANDOVER FORM
USING THE UCD METHOD AT CLASS III HOSPITAL
04.06.03 DR. SOETARTO YOGYAKARTA**

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ABSTRACT

Background: Permenkes No. 24 of 2022 requires health facilities to organize electronic medical records. TK III 04.06.03 Dr. Soetarto Hospital Yogyakarta has implemented RME, but the pre and post operative handover forms used to transfer data between treatment rooms still use manual forms. This slows down the process of searching for surgery patient data. The design of the user interface design is a solution provided to ensure compatibility and interoperability between electronic systems so that they can work in an integrated manner in exchanging data in accordance with the RME meta data variables in Kepmenkes No.1423 of 2022.

Objective: To design an electronic user interface for pre-operative and post-operative handover forms using the User Centered Design (UCD) method.

Methods: This research is a qualitative study with a research design using Research and Development (R&D) which adopts the UCD method as a design design method. The UCD method consists of 4 stages, namely identifying the context of use, analyzing user needs, designing user interface designs, and evaluating the results of user interface design designs.

Result: This study produces a user interface design including Login Page, Dashboard Page, OK Menu Page, Pre operative Page, Post operative Page, Print Page and PDF of Pre operative and Post operative Handover Filling Results. The user evaluation results show an average design acceptance score of 86.5 which is included in the "Acceptable" assessment criteria with a grade scale of 'B' and an adjective rating of "Best Imaginable".

Conclusion: The user interface design of electronic pre operative and post operative handover forms is acceptable to users and in accordance with user needs.

Keywords: user interface, EMR, UCD, SUS, handover form

**PERANCANGAN DESAIN *USER INTERFACE* FORMULIR SERAH
TERIMA *PRE* OPERASI DAN *POST* OPERASI ELEKTRONIK
DENGAN METODE UCD DI RS TK III 04.06.03
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ABSTRAK

Latar Belakang : Permenkes No. 24 Tahun 2022 mewajibkan fasyankes menyelenggarakan rekam medis elektronik. RS TK III 04.06.03 Dr. Soetarto Yogyakarta telah menerapkan RME, namun formulir serah terima *pre* dan *post* operasi yang digunakan untuk transfer data antar ruang perawatan masih menggunakan formulir manual. Hal ini memperlambat waktu proses pencarian data pasien operasi. Perancangan desain *user interface* merupakan solusi yang diberikan untuk menjamin kemampuan kompatibilitas dan interoperabilitas antara sistem elektronik agar dapat bekerja secara terpadu dalam pertukaran data sesuai dengan variabel meta data RME pada Kepmenkes No.1423 Tahun 2022.

Tujuan : Merancang desain *user interface* formulir serah terima *pre* operasi dan *post* operasi elektronik dengan metode *User Centered Design* (UCD).

Metode: Penelitian ini merupakan penelitian kualitatif dengan desain penelitian menggunakan *Research and Development* (R&D) yang mengadopsi metode UCD sebagai metode perancangan desain. Metode UCD terdiri dari 4 tahap yaitu mengidentifikasi konteks penggunaan, menganalisis kebutuhan pengguna, merancang desain *user interface*, dan mengevaluasi hasil rancangan desain *user interface*.

Hasil: Penelitian ini menghasilkan desain *user interface* meliputi Halaman *Login*, Halaman *Dashboard*, Halaman Menu OK, Halaman *Pre* Operasi, Halaman *Post* Operasi, Halaman Cetak dan PDF Hasil Pengisian Serah Terima *Pre* Operasi dan *Post* Operasi. Hasil evaluasi pengguna menunjukkan skor rata-rata penerimaan desain sebesar 86,5 yang termasuk dalam kriteria penilaian “*Acceptable*” dengan *grade scale* “B” dan *adjective rating* “*Best Imaginable*”.

Kesimpulan : Perancangan desain *user interface* formulir serah terima *pre* operasi dan *post* operasi elektronik dapat diterima oleh pengguna dan sesuai dengan kebutuhan pengguna.

Kata Kunci: *user interface*, RME, UCD, SUS, formulir serah terima