

## ABSTRAK

**Latar Belakang:** Pentingnya pemanfaatan laboratorium pada institusi pendidikan khususnya yang bergerak di bidang kesehatan dengan menerapkan rekam medis elektronik dalam praktik klinik sehingga dapat meningkatkan kompetensi mahasiswa sehingga perlu dibuat suatu sistem informasi rekam medis elektronik di laboratorium untuk menunjang kegiatan pembelajaran di Politeknik Kesehatan KMC Kuningan. Perancangan RME fokus pada KEPMENKES Nomor HK.01.07/MENKES/1423/2022 tentang Variabel dan Meta Data dalam RME yang dijadikan pedoman utama dalam menentukan item data dan menu dalam RME.

**Tujuan:** Membuat sistem informasi rekam medis elektronik berbasis web dengan menggunakan metode Unified Modeling Language (UML).

**Metode:** Analisis kebutuhan dilakukan dengan wawancara mendalam dan studi literatur, pengembangan sistem menggunakan metode *Waterfall*, perancangan sistem menggunakan metode UML, dan pengujian menggunakan *uji usability*.

**Hasil:** Telah dihasilkan Perancangan Sistem Informasi Rekam Medis Elektronik dengan menggunakan metode perancangan sistem UML (Unified Modeling Language) berupa *Use Case Diagram*, 10 *Activity Diagram* dan *Class Diagram*. Selain itu menghasilkan basis data dan desain *user interface* Sistem Informasi Rekam Medis Elektronik.

**Kesimpulan:** Sistem Informasi Rekam Medis Elektronik ini telah memenuhi unsur *usability* yang mengukur kegunaan sistem informasi dalam menjalankan suatu tugas berdasarkan sudut pandang pengguna.

**Kata Kunci:** Rekam Medis Elektronik, Laboratorium, Perancangan Sistem

## ABSTRACT

**Background:** *The importance of using laboratories in educational institutions, especially those engaged in the health sector, implements electronic medical records in clinical practice so that it will increase student competence. To overcome this, it is necessary to create an electronic medical record information system in the laboratory to support learning activities at the KMC Kuningan Health Polytechnic. The design of the EMR focuses on KEPMENKES HK.01.07/MENKES/1423/2022 concerning Variables and Meta Data in the EMR which is used as the main guideline in determining the data items and menus in the EMR.*

**Objective:** *Create a web-based electronic medical record information system using the Unified Modeling Language (UML) method.*

**Methods:** *Requirements analysis was carried out using in-depth interviews and literature studies, system development using a waterfall, system design using the UML method, and testing using a usability test.*

**Results:** *Electronic Medical Record Information System Design was produced using the UML (Unified Modeling Language) system design method in the form of a Use Case Diagram, 10 Activity Diagrams and Class Diagrams. Apart from that, it produces a database and user interface design for the Electronic Medical Record Information System.*

**Conclusion:** *This Electronic Medical Record Information System has fulfilled the usability element which measures the usefulness of the information system in carrying out a task based on the user's perspective.*

**Keywords:** *Electronic Medical Records, Laboratory, System Design*