

ABSTRAK

Latar belakang: Peningkatan penggunaan rekam medis elektronik (RME) mempunyai potensi besar dalam upaya peningkatan kegiatan belajar mengajar dalam pendidikan profesi kedokteran. Sebagai bagian dari *roadmap* kegiatan pengembangan dan pemanfaatan *Big Data* di Fakultas Kedokteran, Kesehatan Masyarakat dan Keperawatan Universitas Gadjah Mada (FKKMK UGM), dilakukan pengembangan sistem *Electronic Medical Record for Student* (EMRS). Sistem RME untuk bayi dan anak-anak dipilih karena rekam medis untuk bayi dan anak-anak membutuhkan data-data dan fungsi khusus yang berbeda dengan rekam medis untuk dewasa.

Tujuan: melakukan *usability evaluation* dan *feasibility study* pada prototipe sistem EMRS berbasis *web*

Metode: merupakan penelitian *mixed-methods* berdasarkan pada proses *development-evaluation-implementation* dengan pendekatan studi kasus. *Usability evaluation* dari prototipe sistem EMRS berbasis *web* dinilai secara kuantitatif dengan 16 buah pertanyaan dari kuesioner *Post-Study System Usability Questionnaire* (PSSUQ) Versi 3 terhadap kelompok dokter muda yang sedang melakukan proses koasistensi minimal 1 bulan dan sudah mendapatkan pelatihan dan pendampingan dalam menggunakan prototipe sistem EMRS di Departemen Ilmu Kesehatan Anak FKKMK UGM. Informasi tentang *feasibility* sistem EMRS diperoleh dengan melakukan *Focus Group Discussion* (FGD) dan wawancara mendalam setelah responden selesai mengisi kuesioner.

Hasil: Hasil skor rata-rata PSSUQ Versi 3, aspek kepuasan keseluruhan terhadap sistem (mean 5,45 SD 0,46), kegunaan sistem (mean 5,60, SD 0,17), kualitas informasi (mean 5,28, SD 0,60) dan kualitas antarmuka (mean 5,46, SD 0,66).

Kesimpulan: Analisa hasil *usability evaluation* menunjukkan bahwa prototipe sistem EMRS ini dapat digunakan dengan baik dan kepuasan keseluruhan pengguna cukup tinggi. Prototipe sistem EMRS dianggap sudah cukup baik dan layak untuk digunakan sebagai pendukung pendidikan profesi kedokteran dengan tambahan beberapa fitur untuk perbaikan sistem.

Kata kunci: rekam medis elektronik, *usability evaluation*, *feasibility study*, *Post-Study System Usability Questionnaire*

ABSTRACT

Background: *Electronic medical records has great potential to increase the teaching and learning activities in medical education at the academic and clinical levels. As a part of roadmap of the Big Data development and utilization activities in Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada we developing an Electronic Medical Record for Student (EMRS) system. An electronic medical records for pediatric patients was chosen because medical records for infant and pediatric patients required special data and functions that are different from medical records for adult patients*

Objective: *A usability evaluation and feasibility study on a web-based EMRS system prototype*

Methods: *A mixed-methods research based on the development-evaluation-implementation process with a case study approach. The usability evaluation of the web-based EMRS system prototype was assessed quantitatively with 16 questions from the Post-Study System Usability Questionnaire (PSSUQ) Version 3 questionnaire for a group of medical students who were doing the clerkship for at least 1 month and had received training and assistance in using the electronic medical record system at the Department of Child Health, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada. After the usability evaluation process, a Focus Group Discussion (FGD) and in-depth interviews was used to evaluate the feasibility of the EMRS system prototype.*

Results: *The results of the PSSUQ Version 3, overall user satisfaction (mean 5.45 SD 0.46), system usability (mean 5.60, SD 0.17), information quality (mean 5.28, SD 0, 60) and interface quality (mean 5.46, SD 0.66).*

Conclusion: *The usability results suggest that the EMRS system prototype is usable and overall user satisfaction was quite high. The EMRS system prototype was shown to be feasible to be used to support medical education with the addition of several features.*

Keywords: *electronic medical record, usability evaluation, feasibility study, Post-Study System Usability Questionnaire*