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**Evaluasi Penerapan Sistem Peresepan Elektronik Dalam Mencegah  
*Medication error* Pada Tahap *Prescribing* Di Rumah Sakit Bhakti Wira  
Tamtama**

**ABSTRAK**

**Latar Belakang :** *Medication error* merupakan kesalahan medis yang dapat dicegah, namun masih sering terjadi, khususnya pada tahap *prescribing* yang memiliki risiko tinggi terhadap keselamatan pasien. Untuk meminimalkan kesalahan tersebut, sistem peresepan elektronik dikembangkan. Penelitian ini bertujuan untuk mengevaluasi efektivitas sistem peresepan elektronik dalam mencegah *medication error* di Instalasi Farmasi Rawat Jalan RST Bhakti Wira Tamtama.

**Metode :** Penelitian ini merupakan studi analitik observasional dengan pendekatan *cross-sectional*, menggunakan data retrospektif dari 100 resep elektronik. Sampel dipilih dengan teknik *proportional random sampling* selama periode September 2024 hingga Februari 2025. Resep yang dianalisis berasal dari pasien BPJS dan non-BPJS rawat jalan, dengan periode resep dari September 2024 hingga November 2025. Data dianalisis secara univariat untuk mengetahui distribusi frekuensi dan persentase kejadian *medication error* pada tahap *prescribing*.

**Hasil :** Hasil menunjukkan bahwa *medication error* masih terjadi pada resep elektronik, terutama pada bagian *pro* (tidak dicantumkan berat badan pasien) dan *signatura* (aturan pakai tidak dicantumkan). Kesalahan lain ditemukan pada *prescriptio* berupa ketiadaan bentuk sediaan dan dosis. Sementara itu, bagian *inscriptio*, *invocatio*, dan *subscriptio* tidak menunjukkan adanya kesalahan.

**Kesimpulan :** Sistem peresepan elektronik mampu mengurangi beberapa jenis *medication error*, namun belum sepenuhnya efektif. Diperlukan optimalisasi sistem, peningkatan pengawasan, serta edukasi bagi tenaga medis untuk meningkatkan akurasi dan keselamatan dalam peresepan.

**Kata Kunci :** *medication error*, *prescribing*, *e-prescribing*, elektronik

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**Evaluation of the Implementation of the Electronic Prescribing System in Preventing Medication Errors at the Prescribing Stage at Bhakti Wira Tamtama Hospital**

**ABSTRACT**

**Background:** Medication error is a preventable medical mistake that still frequently occurs, particularly during the prescribing stage, which carries a high risk to patient safety. To minimize such errors, electronic prescribing systems have been developed. This study aims to evaluate the effectiveness of the electronic prescribing system in preventing medication errors at the Outpatient Pharmacy Installation of Bhakti Wira Tamtama Hospital.

**Methods:** This research is an analytical observational study with a cross-sectional approach, using retrospective data from 100 electronic prescriptions. Samples were selected using proportional random sampling during the period from September 2024 to February 2025. The analyzed prescriptions were taken from BPJS and non-BPJS outpatients, covering prescriptions issued from September 2024 to November 2025. Data were analyzed using univariate analysis to determine the frequency distribution and percentage of medication error occurrences in the prescribing stage.

**Results:** The results showed that medication errors still occurred in electronic prescriptions, particularly in the pro section (absence of patient weight) and signatura (missing usage instructions). Additional errors were found in the prescriptio section, such as missing dosage and dosage form. Meanwhile, no errors were found in the inscriptio, invocatio, and subscriptio sections.

**Conclusion:** The electronic prescribing system helps reduce certain types of medication errors, but it is not yet fully effective. System optimization, enhanced supervision, and continuous education for medical personnel are needed to improve accuracy and safety in prescribing practices.

**Keywords:** medication error, prescribing , e-prescribing, electronic