

ABSTRAK

BPJS Kesehatan menuntut akurasi dalam pencatatan diagnosis dan tindakan medis guna mendukung kelancaran proses klaim dan menjaga kualitas layanan kesehatan. Namun, masih ditemukan ketidaksesuaian kode diagnosis dan tindakan medis pasien dengan standar *International Classification of Diseases* (ICD) yang ditetapkan oleh Kementerian Kesehatan oleh fasilitas kesehatan. Penelitian ini bertujuan untuk merancang dan mengimplementasikan aplikasi berbasis web yang dapat menganalisis kesesuaian kode diagnosis dan tindakan medis pasien dengan standar ICD dari Kementerian Kesehatan. Sistem dikembangkan menggunakan metode *Rapid Application Development* (RAD), sementara metode *Forward Chaining* diterapkan untuk membantu pencocokan kode data diagnosis dan tindakan medis dengan aturan yang terdapat dalam ICD-10 dan ICD-9. Sistem berbasis web yang dibangun menyediakan fitur-fitur seperti manajemen data ICD, diagnosis, tindakan medis. Hasil pengujian menunjukkan bahwa seluruh fitur berjalan sesuai fungsi dan sistem mampu mengidentifikasi kesesuaian data. Sistem dinilai dapat membantu dalam memverifikasi kesesuaian kode diagnosis dan tindakan medis, serta berpotensi meningkatkan ketepatan pencatatan medis di lingkungan BPJS Kesehatan.

Kata Kunci: Diagnosis, ICD, BPJS Kesehatan, Forward Chaining, RAD

ABSTRACT

BPJS Kesehatan demands accuracy in recording patient diagnoses and medical procedures to ensure smooth claim processing and maintain the quality of healthcare services. However, discrepancies are still found between patient diagnoses and procedures and the standards of the International Classification of Diseases (ICD) established by the Indonesian Ministry of Health. This study aims to design and implement a web-based application that can analyze the conformity of patient diagnoses and procedures with the ICD-10 and ICD-9 standards. The system was developed using the Rapid Application Development (RAD) method to accelerate the development process, while the Forward Chaining method was applied to assist in matching diagnosis and procedure data with the defined rules. The resulting web-based system provides features such as ICD data management, diagnosis and procedure management, and automatic analysis of matching results. Testing results showed that all features functioned properly and the system was able to accurately identify data conformity. The system is considered helpful for administrators in verifying the accuracy of patient diagnoses and procedures and has the potential to improve the quality and efficiency of medical recordkeeping at BPJS Kesehatan.

Keywords: Diagnosis, ICD, BPJS Kesehatan, Forward Chaining, RAD