

ABSTRACT

Bihbul Health Center obliged to do most health efforts imposed by the Bandung City Health Office. The number of patients who use Bihbul Health Center services reached 16,206 souls of the total population amounted to 72,601 souls Margahayu District. Until recently, the Bihbul Health Center patients still use the card written manually (handwritten). In addition, these data (medical records) disease patients in clinic information system is still recorded in the books. This can lead to many books and papers that are less practical when a search conducted of health data and medications for the treatment of patients. Therefore, it is necessary to repair health centers and business process design technology-based health information system by using RFID Card with Waterfall method at Bihbul Health Center.

Waterfall method at the Bihbul Health Center use by modeling the information system using RFID Card equipment, software requirements analysis derived from observation and verification, design software applications using Microsoft Visual Basic 6.0, writing programs with Visual Basic programming language, application testing and maintenance applications by several users.

The results of this study obtained data of business process analysis and computation time of existing and proposed business processes for each type of health services. An increase in the percentage of computation time of existing and proposed, such as: Registration of a new patient cycle time efficiency of existing 20.84% and proposed 31.86%; Registration old patient cycle time efficiency of existing 17.49% and proposed 46.4%; Treatment of patients (common part) of existing 89.81% and proposed 91.8%; Retrieval of existing medicines 16.41% and proposed 16.58%.

Keywords: Business Process, Information Systems, RFID Card.