

## ABSTRACT

### **Database Management System on Inpatient Care at Prambon Public Health Center (PHC) in Sidoarjo Regency**

Inpatient database available in PHC Prambon still applies the conventional way. This rises some problems for input, process and output activities. Therefore, on the recording and reporting of inpatient care, database management systems on inpatient care is created in order to obtain precise, fast, and valid data. The purpose of this Database Management System is to identify activities, the user needs toward recording and reporting on inpatient care as well as creating and testing appropriate applications. This study applied a qualitative approach with action method research aiming to develop practical knowledge in achieving the goal. This research was conducted at Prambon public health center with the object of research is inpatient recording and reporting as well as informants and subjects for testing the results. Identifying the user needs for the database management system means finding an integrated registered patients with inpatients and also with having their ID. Thus, the information obtained is accurate, fast and valid, with the output in the form of daily, monthly recapitulation report, BOR LOS, the ten highest diseases, and data for preventing infectious diseases. Designing the database application is conducted by first designing the user view, and a conceptual schema, namely data normalizing, creating a data flow diagram, ERD, data dictionary, and designing the physical database. By using WEB-based applications with PHP and MySQL, the database management system was designed and created and then conducted with the test to determine the barriers for health care workers in applying the database application on inpatient care.

**Keywords:** database management system, inpatient care of public health center