

**DESIGN AND DEVELOPMENT OF WEB-BASED ELECTRONIC
MEDICAL RECORD OF OUTPATIENT SERVICES IN PATRANG
PRIMARY HEALTH CARE**

Muhammad Yunus, S.kom., M.Kom

Hikmah Amaliyah

Health Information Management Study Program

Department of Health

ABSTRACT

Patrang primary health care in administering outpatient service activities doesn't use an information system and still use semi-manually assisted by google sheets. This leads to a long registration process, especially for new patient because officers must record register data on google sheets and also write back for manual medical record files. While recording patient examinations on medical records which are also still performed semi-manually and also have an average daily visit of more than 30 patients has led to incomplete filling of patient medical records so that it affects the quality of the information. Based on the problem, it's considered to design and development of a system that can support the activities of recording outpatient services at the Patrang primary health care. This study uses a Research and Development method with Waterfall system development method which includes the steps of requirement analysis by interviewing users for data needs. Afterwards, design makes flowcharts, data flow diagrams and entity relation diagrams. Next is implementation by creating program code using the PHP programming language and the last step is testing using blackbox testing to test system functionality. The outcome of this study is an electronic medical record of outpatient services that can help officers in registration and examination activities, the result of examination activities can also be connected directly to the pharmacy menu so it can optimize officer time to provide medicines for patients. the electronic medical records for outpatient services is also hoped to increase effectiveness and efficiency in providing outpatient services at the Patrang primary health care.

Keyword : *Outpatient Services, Electronic Medical Records, Waterfall,
Primary Health Care*