

# **Design and Development of a Web-Based Patient Screening Information System at RSD Balung**

Mudafiq Riyan P., S.Kom., M.Kom. (Supervisor 1)

**Bagas Lambang Rahmandika**

Diploma IV Program in Health Information Management

Faculty of Health Sciences

## **ABSTRACT**

Balung Regional Hospital have average service time for outpatients was recorded at 64 minutes, while the Emergency Department (IGD) recorded an average of 344 minutes in 2023. Outpatient service time is measured from the patient's entry into the polyclinic to the receipt of medication, whereas IGD service time is calculated from the patient's arrival in the emergency unit until discharge or admission to the inpatient unit. The standard maximum service time is less than 60 minutes for outpatient care and less than 360 minutes (6 hours) for emergency services. Therefore, there is a need for an information system that can speed up patient screening service time. This study aims to design and develop a web-based patient screening information system using the *Waterfall* development methodology to improve service efficiency at RSD Balung. The resulting system comprises several key modules, including master data management for users and patients, screening data for general and COVID-19 cases, and visualization of screening data through graphical reports. The implementation of this system is expected to support faster and more accurate patient screening processes. The website-based patient screening information system at Balung Regional Hospital is expected to help develop screening services at Balung Regional Hospital.

**Keywords:** *Waterfall* Method, Patient Screening, Information System.