

## ABSTRACT

Symptoms of dengue fever or dengue and typhoid have some similarities. Both diseases are characterized by a high fever that disrupt the activity of sufferers. If mistakenly identify disease recognizes the type of illness can lead mistakenly in treating patients, it can even cause death. Therefore, this study aims to classify the two diseases based on the symptoms of the illness suffered by the patient. To perform the classification of the two diseases, is a decision tree model to predict the patient's illness and saw the most influential variable on disease patients with typhoid and dengue category. The data of this research is the laboratory test results of patients, characteristics, symptoms, and physical condition of patients in the can from the hospital medical record. The data used is laboratory results of patients were taken during examination the patient come first before it had typhoid or dengue disease. The independent variables or input variables (predictors) in this study was the examination of patients which include age categories, fever, duration of fever, platelets, hematocrit, and test widal patients. While the condition of patients who would have predicted are a patient's disease status typhoid or dengue. The algorithm used is C5.0 then the model is represented in the form of rules (rule). from the model established obtained accuracy greater than 84%

**Key Word:** Dengue Haemorrhagic Fever, typhoid, C5.0 algorithm