ABSTRACT

Dengue Hemorrhagic Fever (DHF) is an infectious disease transmitted through mosquitoes, especially Aedes aegypti and Aedes albopictus which are found in tropical and subtropical areas. Dengue Hemorrhagic Fever (DHF) is a type of disease that must be watched out for, because this disease can cause death if not treated promptly.

This problem is due to the lack of fast handling and follow-up, causing several areas in the city of Bandung to still suffer from dengue fever. From the above problems, it is necessary to have a decision-making system for handling dengue fever which is indicated by the Bandung City Health Office in making decisions which are expected to assist in making decisions quickly and accurately by the Bandung City Health Office in dealing with DHF.

In this research, the decision making method used is the Simple Additive Weighting (SAW) method. The basic concept of the SAW method is to find the sum of the weights of the performance rating for each alternative in all attributes. In this case, the data used were obtained from the Bandung City Health Office. Decision support system is a web-based application built using the PHP programming language. This system also uses MySQL as a container for data storage.

From the research results, it was found that this simple additive weighting method could be implemented and it is hoped that in the future it will help recommend the decision to handle dengue hemorrhagic fever to the Health Office with the test results in the form of user satisfaction with the application with an average of 85.18%. The average score is derived from the total percentage of several aspects including learnability, efficiency, memorability, error and satisfaction aspects.

***Keywords**: Dengue hemorrhagic fever, Decision Support Systems, Simple Additive Weighting.*