

Universiti Teknologi MARA

**Early Dengue Diagnosis Based On
Fuzzy Logic**

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ABSTRACT

Dengue is a potentially high-risk vector borne disease that spread by the female aedes Aegypti mosquitoes. WHO in their report said that the dengue has become a global burden nowadays. Many cases have been report all over the world. The incidence of dengue has grown dramatically around the world in recent decades. The main goals of this project is study how the dengue is diagnose by a doctor and to create a system that can help to detect this disease from the early based on its symptoms. Due to this situation, an expert system using fuzzy logic are proposed. The system are design to perform a calculation based on the specific data that has been collected form the expertise. At the end, an expert system based on fuzzy logic has been successfully develop and tested and for the result, this project has archive 66.67% in the accuracy test with the expert from medical field. So, by having this expert system, we hope that by the it a bit can help to control this disease from widely spread without any preventions

Keywords-component; dengue; disease diagnosis; symptoms; expert system; fuzzy logic; fuzzy expert system.

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