Universiti Teknologi MARA

Early Dengue Diagnosis Based On Fuzzy Logic

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Report submitted in fulfilment of the requirement for Bachelor of Computer Science (Hons.) Faculty of Computer and Mathematical Sciences

JANUARY 2017

ACKNOWLEDGEMENT

Alhamdulillah, praise and thanks to Allah because of His Almighty and His utmost blessings, I was able to finish this research within the time duration given. Firstly, I would like to acknowledge with much appreciation and thanks to Assc Prof Dr Hamidah Jantan, my lecturer for Project Formulation subject (CSP650) and also for last semester Project lecturer (CSP600) for all knowledge and guidance that has been shared during this study and research.

My special thanks also goes to my supervisor Assc. Prof. Wan Dorishah Wan Abdul Manan for the continuous support of my project and related research, for her patience, motivation, and immense knowledge. Her guidance helped me in all the time of research and writing of this thesis.

Special appreciation also goes to my beloved family who has become my big supporter and my inspired at all from the beginning. Last but not least, I would like to give my gratitude to my dearest friend because of their help and guidance's in way to finish this project.

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.

TABLE OF CONTENTS