

# **A WEB BASED FUZZY EXPERT SYSTEM PREECLAMPSIA PRE-DIAGNOSIS**



**THESIS SUBMITTED IN PARTIAL FULFILMENT  
OF THE REQUIREMENT FOR THE DEGREE  
OF BACHELOR OF SCIENCE (HONS) (INTELLIGENT SYSTEMS)**

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2006**

## **DECLARATION**

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline

27 APRIL, 2006

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## **ACKNOWLEDGEMENT**

*Bism illahirrahmanirrah im*

*In the name of ALLAH,*

*The most Gracious and the most Merciful.*

Firstly I would like to express my gratitude to Allah with His graciousness for giving me the time to complete this project paper on time. This completion of this report is through relentless cooperation of several persons in giving me guidance.

My utmost appreciation goes to my project supervisor, Pn Azlin Ahmad. She has give me such a good idea that has opened my minds to what is currently needed in the project with her strong knowledge in building fuzzy expert system, ethics and charisma. Without her endless advice and support, I would not have completed this work.

Secondly, my heart appreciation also goes to my lecturer for ITS 690 (IT Project), Pn Zaidah Ibrahim who has been tolerant and patient in guiding me in my efforts to complete this project paper. My credits are also due to Dr. Shahrol from Pusat Kesihatan UiTM for his most generous assistance.

My thank you also extends to all my friends who are very helpful in giving me information and creative idea for these project especially final students of CS 223. Lastly, I would like to express my thankful to my beloved parents and my supportive family. Thank you for being there wherever I am.

## **ABSTRACT**

A preeclampsia caused many cases of hypertension in pregnancy and it's typically develops after the 20th week of gestation and involves a wide spectrum of clinical signs and symptoms. 20<sup>th</sup> weeks after gestation is quite a heavy months for the pregnant lady. They are difficult to move easily and most of them face many problems in order to go for gestation check up or go for preeclampsia diagnose. Besides that, most of the pregnant lady has less information about hypertension during pregnancy or specifically preeclampsia. Therefore, this web based fuzzy expert system is developed to overcome this problem. In order to develop this prototype system, fuzzy set theory has been applied in the process of developing. Moreover, the Mamdani fuzzy inference also has been used as the fuzzy inference method. Besides that, the knowledge analysis that has been gathered is also being the important component of this system. All data that gathered from interviews, surveys, observations and printed material are combined to produce a strong knowledge base. Testing are done at the end the coding phase to ensure the end prototype fulfill the objectives of the project and to sort out any errors in the system.

## CONTENTS

	<b>Page</b>
<b>DECLARATION</b>	i
<b>ACKNOWLEDGEMENT</b>	ii
<b>ABSTRACTS</b>	iii
<b>CONTENTS</b>	iv-viii
<b>LIST OF TABLES</b>	ix
<b>LIST OF FIGURES</b>	x
<b>CHAPTER</b>	
<b>1.0 INTRODUCTION</b>	
1.1 INTRODUCTION	1,2
1.2 BACKGROUND OF THE PROBLEM	3
1.3 PROBLEM DESCRIPTION	
1.3.1 LACKS OF MEDICAL INFORMATION	4
1.3.2 BEING A SINGLE MOTHER / NO OTHER RELATIVES COULD HELP	4 4
1.3.3 COULD NOT DRIVE / DO NOT HAVE DRIVING LICENSE	4 4
1.3.4 TIME CONSTRAINTS	5
1.4 PROJECT OBJECTIVES	5
1.5 SCOPE OF THE PROJECT	5
1.6 SIGNIFICANCE OF THE PROJECT	6
1.7 SUMMARY	6