UNIVERSITI TEKNOLOGI MARA

THE IMPACT OF HEALTH PRACTICES AMONG FOGGERS IN VECTOR UNIT

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Project submitted in fulfillment of the requirements for the degree of

Bachelor in Environmental Health and Safety

(Hons.)

Faculty of Health Sciences

July 2017

DECLARATION BY STUDENT

Project entitled "The Impact of Health Practices Among Foggers of Vector Unit" is a presentation of my original research work. Whenever contributions of others are involved, every effort is made to indicate this clearly, with due reference to literature, and acknowledgement of collaborative research and discussions. The project was done under the guidance of Project Supervisor, En. Razi Ikhwan Bin Md Rashid. It has been submitted to the Faculty of Health Sciences in partial fulfilment of the requirement for the Degree of Bachelor in Environmental Health and Safety (Hons).

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ACKNOWLEDGEMENT

In the name of Allah, The Most Gracious, The Most Merciful.

Assalamualaikum and *Alhamdulillah* to Allah S.W.T for his blessings and for giving me the will, strength, good health and self-confidence in order for me to successfully complete my study.

Firstly, i would like to express my sincere gratitude to my supervisor, Encik Razi Ikhwan Bin Md Rashid for his guidance and the continuous support he had given me since day one. He never stopped believing in me and he had been really considerate and understanding to me although with all the obstacles and problems i had faced during the study period. Every time i felt like giving up and he will be there to keep me going. I am truly blessed to have him as my supervisor.

Next, i would like to give my sincere thanks to my parents, wife and son for the love and support given to me all the way from the start. Their love had given had made me who I am now. Their love had also given me the inspiration to study harder and never gave up in order to do better in my study for a better future ahead.

Apart from that, i would also like to express my thanks to all the lecturers and members of the staffs of Faculty of Health Science, UITM Puncak Alam who helped me during my entire journey as a student. Not to forget, many thanks to my colleagues of e-PJJ Batch September 2013 of their great cooperation, support and friendship during this study. Lastly I would like to thank everyone involved in helping me to complete my final year project and may Allah bless all of you.

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ABSTRACT

The foggers of the Vector Unit in the Ministry of Health (MOH) is at danger due to the

handling of hazardous chemicals which may cause organophosphate poisoning. Study

was performed to study the impact of health practice to the cholinesterase level among

the foggers and to determine the association. Baseline and periodic blood sample from

a total of 35 foggers from vector unit of Pejabat Kesihatan Kawasan Kota Kinabalu was

taken for cholinesterase test and a set of questionnaires, (KKM/BKP/OHU/08) that was

adapted from the Occupational Safety & Environmental Unit, MOH was distributed to

the respondents to determine their health practice. The compliance to personal

protective equipment (PPE) during the mixing of pesticide and fogging activity showing

higher cholinesterase percentage reduction are among foggers that did not used PPE.

This means that those who used PPE are less exposed to organophosphate (OP) pesticide

compared to foggers who did not used PPE. Besides that, those foggers who takes bath

and changing clothes after fogging is less exposed than those who do not as higher

percentage of cholinesterase reduction are among those not taking their bath. In addition,

fogging against the direction of the wind has higher exposure among foggers towards

OP compared to those not fogging against the direction as higher percentage of

cholinesterase reduction are among foggers who fogs against the wind direction. Hence,

level of exposure towards organophosphate pesticide among foggers has strong

association with the health practice.

Keywords: Foggers, Organophosphate pesticide, Health practice, Cholinesterase level,

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