

**CAPACITY FOR EARLY DETECTION, RESPONSE AND  
PRACTICE OF VILLAGERS IN RELATION TO VETERINARY  
EMERGENCY PREPAREDNES FOR PREVENTION, DIAGNOSIS  
AND SURVEILLANCE OF HIGHLY PATHOGENIC AVIAN  
INFLUENZA (HPAI) IN SUPHANBURI PROVINCE**



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**A Thesis Submitted in Partial Fulfillment of the Requirements  
for the Degree of Master of Public Health Program in Health Systems Development  
College of Public Health  
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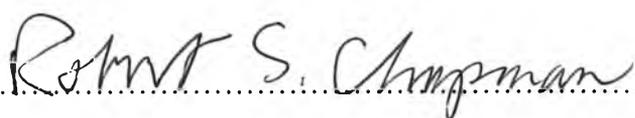
Thesis Title            Capacity for early detection, response and practices of villagers  
                                 in relation to Veterinary Emergency Preparedness for  
                                 prevention, diagnosis and surveillance of Highly Pathogenic  
                                 Avian Influenza(HPAI) in Suphanburi province  
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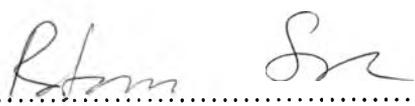
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DUBRAVKA SELENIC MINET: CAPACITY FOR EARLY DETECTION, RESPONSES TO AND PRACTICES OF VILLAGERS IN RELATION TO VETERINARY EMERGENCY PREPAREDNESS FOR PREVENTION, DIAGNOSIS AND SURVEILLANCE OF HIGHLY PATHOGENIC AVIAN INFLUENZA (HPAI) IN SUPHANBURI PROVINCE THAILAND. THESIS ADVISOR: ASSOCIATE PROFESSOR RATANA SOMRONGTHONG, M.A., Ph.D., 90 pp.

The purpose of this study was to evaluate the knowledge, practices, and responses of Thai villagers in relation to avian influenza (AI), in Suphanburi province where there was more than one outbreak with human fatal cases and to provide this information to governmental and non governmental institutions for evaluation of all veterinary and health action taken during four waves of avian influenza outbreaks in Thailand. The study also describes socio-demographic characteristics, source of information on avian influenza and attitudes regarding satisfaction of affected farmers with governmental action and compensation.

A cross-sectional analytical study with a self-administered questionnaire and group discussion were used in this study with a systematic sampling method, using one adult per household. The results showed that respondents had a reasonably accurate knowledge about AI. About 68% of respondents had moderate knowledge about symptoms of sick birds and 58.3% had moderate knowledge regarding AI transmission; 67.2% have moderate knowledge about AI and 48.9 % had moderate practice level.

The survey result shows that the knowledge of respondents does not relate directly to their practices in relation to disease prevention, surveillance and diagnosis.

The main source of avian influenza information was TV broadcasts. Correlation analysis showed that income was positively and highly significant correlated with basic knowledge score ( $r=0.227$ ,  $p<0.002$ ) and positively correlated with precaution ( $r=0.182$ ,  $p<0.015$ ). Significant association was found between knowledge of AI symptoms of affected poultry farmers ( $p<0.004$ ). Positive significant association was as well between AI basic knowledge and affected farmers ( $p=0.013$ ). There was highly significant association between knowledge and practice ( $p<0.001$ ). Practice score was positive significant correlated with score for transmission knowledge ( $p<0.004$ ).

Taking into account that good practice is carried out by less than 50% of farmers' means that the government needs to explain more about safety practices.

The government has carried out a massive campaign to explain the dangers and to make people aware of AI but this has not had the expected impact on farmers who still do not fully believe the dangers.

Field of Study: Health System Development

Student's signature

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## **List of Abbreviations**

AI	Avian Influenza
HPAI	Highly Pathogenic Avian Influenza
AUSVETPLAN	Australian Veterinary Emergency Plan
CDC	Center of Disease Control
COE-DMHA	Center of Excellence Disaster Management & Humanitarian Assistance
DLD	Department of Livestock Development
DG SANKO	Directorate General for Health and Consumer Affairs
FAO	Food and Agriculture Organization of the United Nations
OIE	World Organization for Animal Health
MOPH	Ministry of Public Health
NGO	Non-governmental Organization
WHO	World Health Organization