

3936040 PHPH/M : MAJOR: INFECTIOUS DISEASE; M.Sc. (PUBLIC HEALTH)

KEY WORD : Trichinellosis/ELISA/*Trichinella spiralis*/KAP./hilltribe people

CHUTIMA INTHASORN : (THE ASSOCIATION OF ELISA VALUE OF TRICHINELLOSIS WITH KNOWLEDGE, ATTITUDES AND PRACTICE IN HILLTRIBE PEOPLE. THESIS ADVISOR: PAKPIMOL MAHANNOP, Ph.D. WANPEN CHAICUMPA, Ph.D. WONGDYAN PANDII, Ph.D. CHALERMPOL TANSAKUL, Ph.D. PRASERT SETASUBAN, Ph.D. 151 p. ISBN 974-589-850-3

The association between ELISA value of trichinellosis and knowledge, attitudes and practice of Karen hilltribe people at Tumbol Wat Chan and Tha Pha, Mae Cham District, Chiang Mai province were studied during April 1 to May 1, 1997. Groups of people : **group 1** was 21 Karen hilltribe people who were sick from trichinellosis, **group 2** was 42 Karen hilltribe people in Wat Chan who had never suffered from trichinellosis, **group 3** was 36 Karen hilltribe people who had intestinal worm, **group 4** was 30 normal healthy people and **group 5** was 42 town people. The sera were collected from people of groups 1, 2, 3 and 4 for ELISA. Thirty-eight swines' sera were also collected for ELISA.

The results of ELISA from 4 groups of human sera are cut off OD (14.29%) = 0.317, mean of OD ( $\bar{X} \pm \text{sd.}$ ) is  $0.575 \pm 0.240$  and 3 cases have OD value lower than cut off OD in group 1. Mean of OD ( $\bar{X} \pm \text{sd.}$ ) is  $0.161 \pm 0.082$  and 6 cases (14.29%) have OD value more than cut off OD in group 2. OD value of 2 groups are significantly different ( $P < 0.001$ ). This test has sensitivity 85.7% and specificity 95.2%. The result of ELISA from swines' sera is cut off OD = 0.574, sensitivity and specificity is 100%. Mean of OD ( $\bar{X} \pm \text{sd.}$ ) is  $0.207 \pm 0.073$  in swine sera. OD value of all swines are lower than cut off OD. It was found that the knowledge and practice between group 1, 2 and 5 are non-significantly different ( $P > 0.05$ ), but attitudes of 3 groups are significantly different ( $P = 0.02$ ). It was also found that the source where people buy the pork is the risk factor of trichinellosis for hilltribe people (group 1 plus 2) and town people at Tha Pha (group 5).