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EXPECTED PREVALENCE OF GOAT CYSTICERCOSIS: AN ANALYSIS IN A RURAL AREA OF THAILAND

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Taeniasis is an important tropical infection. The problem is usually mentioned regarding the infected pig and cattle. However, the cysticercosis can also be seen in other kinds of animals including to goat. Outbreaks among goats are sporadically reported and the problem is still the important tropical infection [1-2]. Here, the authors use the Geographic information System (GIS) technology for prediction of cysticercosis in goat. Here, the authors focuses the interest on the situation of goat cysticercosis in a rural province of Thailand namely Nakornratchasrima province where there are many agricultural farms. The protocol for GIS prediction is the same as previously used previous referencing studies [3-6]. First, the data on goat density and prevalence of goat cysticercosis based on meat inspection in the local area in Nakornratchasrima province were collected and these data were further used for further finding for a mathematical modeling for prediction of prevalence of goatcysticercosis in this specific area. From assessment, an equation, "$Y = 7.1 *10^{-5} X + 3.72$" where Y is the predicted prevalence (%) of goatcysticercosis and X is the number of goat population, can be derived. The map showing the risk areas of goat cysticercosisis presented in Figure 1. Of interest, the risk areas are at the same as the area for dairy cow farming. This study show that the goat cysticercosis is an actual forgotten and neglected disease in the province.

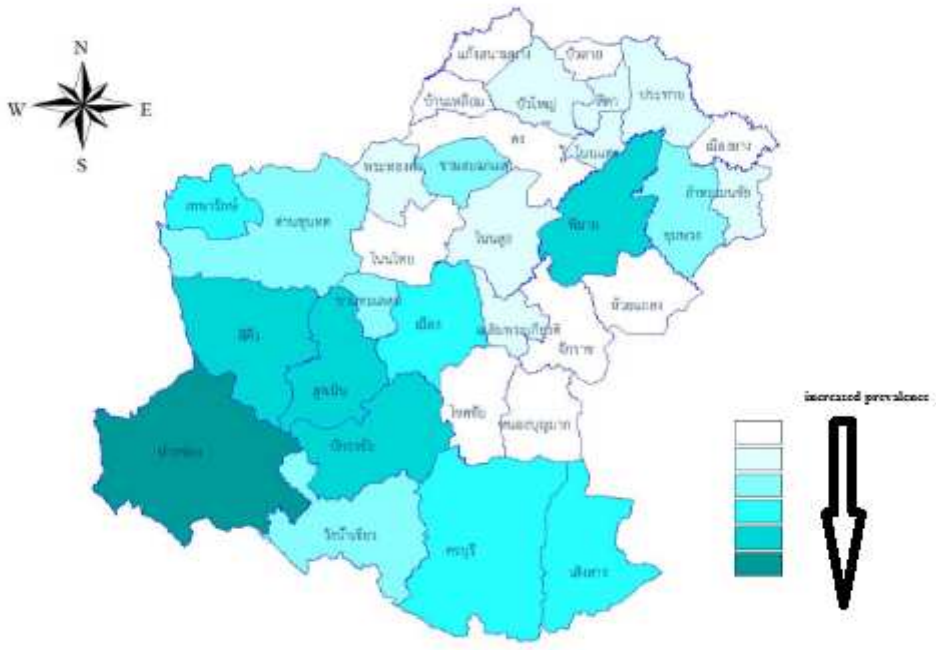

Figure 1.GIS picture representing the areas with risk of goat cysticercosis

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