

Thesis Title : The Study Coverage of Immunization in Children  
0-4 Years in Samutsongkram Province

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### ABSTRACT

The purpose of this study (the immunization of children, from infancy upto 4 years of age in Samutsongkram) was to determine the efficacy of the services run by the village health volunteer group and the housewives' groups, set up to encourage mothers or parents to realize the importance of immunization of children the sample population consisted of 1,279 children, 0-4 years of age, chosen randomly from those who live outside the municipal area. The number of children by age groups were as follows: 578 from the under 1-year-old groups, 701 from the 1-4-year-old groups. 380 children from the former groups were taken care of by volunteers and the rest by housewives. 465 children from the latter group were taken care of by village health volunteers and the rest by house wives.

At 0.05 level of significance the results were as follow :

After the village health volunteers and housewives volunteers implementation, the immunization coverages in children under-1-year-old and 1-4-year-old were significantly higher than prior implementation and they were significantly higher than 10 percents in the past when z-test proportion is used as measurement. After the village health volunteers implement, the drop out rates in children under 1-year-old were significantly lower than before implementation and the decreasing drop out rate were significantly higher than that in the past. Except that the decreasing drop out rates of  $DPT_1-DPT_2$ ,  $OPV_1-OPV_2$  is not higher than that in the past. When the housewives volunteers implementation, the decreasing drop out rates were higher than that in the past too. Except the decreasing drop out rates of  $DPT_1-DPT_2$ ,  $DPT_1-DPT_3$  and  $OPV_1-OPV_2$  were not higher than that in the past. This was decision by  $\alpha = 0.05$ .

When we compare the efficiency in running the services of village health volunteer and housewives volunteer, we find out that both are not difference to encouraging mother and parents to give vaccination to their children by using  $\alpha=0.05$  to decision.