The purposes of this study were to compare the infected rates of Hepatitis B in vaccinated and unvaccinated children aged 3 months- 2 years and to find the effectiveness of the Hepatitis B vaccine in Chonburi and Chiangmai provinecs.

The study was conducted with the Ministry of Public Health

which provided the plasma derived vaccine known as Korean Green

Cross Vaccine to children aged 3 month - 2 years in 1989-1990.

In Chonburi province, there were 1305 children, 1155 vaccinated

and 150 unvaccinated. In Chiangmai province, there were 780

were collected by interviewing and blood testing by

children, 739 vaccinated and 41 unvaccinated.

using radioimmunassay at Thai Red-Cross Association.

Title

Thesis Supervisory Committee

of Graduation

Nane

Degree

Effectiveness of Hepatitis B Vaccine in

Children Aged 3 Months - 2 Years, Chonburi

M.P.H.& T.M.

Ph.D. (Epidemiology)

and Chiangmai Provinces.

Master of Science (Public Health)

Somchai Supanvanich, M.D., M.P.H.,

Kumnuan Unchusak M.D., M.P.H.

22 January B.E. 2536 (1993)

Amornrath Podhipak, M.S. (Biostatistic),

major in Infectious Disease

Tw Chutarat Pichainarong

In Chonburi province was found that infected rates of Repatitis B in vaccinated and unvaccinated groups were 3.72% and 25.33% respectively, and were statistically significantly respectively. Relative risk was 6.81 as compare to vaccinated roup, the effectiveness of the vaccine was 85.31% and carrier was 2.38%

In Chiangmai province was found that infected rates of depatitis B in vaccinated and unvaccinated groups were 5.95% and 29.27% respectively, and were statistically significantly different. Relative risk was 4.92 as compare to vaccinated group, the effectiveness of the vaccine was 79.67% and carrier rate was 3.71%

The results indicated that unvaccinated children have higher risk of hepatitis B infection than the vaccinated children. Therefore, the hepatitis B vaccine should be given to newborn children by including in the Expanded Program on Immunization by the Ministry of Public Health.