

Thesis Title

Risk Factors of Pneumonia in Children

Under five year old at Children Hospital

Name

Prisavas Sriarune

Degree

Master of Science (Epidemiology)

Thesis Supervisory Committee: Somchai Supunvanit, M.P.H & T.M.

Ladawan Chuenchit, DIP AMER BOARD PED.

Amornrat Podhipak, B.Sc., M.S.C., Ph.D.

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ABSTRACT

The objective of this study was to analyze risk factors associated with Pneumonia in children under five years old at Children's Hospital. The retrospective study consisted of 100 cases and 150 controls. The data were collected by interviewing children's parents or care takers and summarizing the medical information from hospital records

Using univariate analysis to estimate odds ratio of each factors, the results showed that the most important factors were incompletely vaccination with odds ratio 6.80. The other risk factors were low family income (5.31), household smokers(4.23), place of smoking of family member(3.22), wood-stoves burning(2.97), using electric fan while sleeping(2.89), factory near house(2.35), closing window while sleeping(2.33), insecticide(2.13), Low birth weight(2.13), non-breast feeding(2.09), malnutrition(2.05), father education (1.86), type of house(1.75) and having pet(1.65).

The estimation of odds ratio, using multivariate analysis, indicated that risk factors of Pneumonia were low family income (15.47), incompletely vaccination(12.44), caretakers (7.15), using electric fan while sleeping(5.47), place of smoking of family member(5.41), day-care(3.90), father occupation(2.96), having pet(2.84), malnutrition (2.80), crowding (2.48), non-breast feeding(2.39), insecticide(2.24), and bed sharing (2.11).