Seroprevalence of pertussis among patients with chronic cough; a summary on previous reports from Thailand

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Introduction
The respiratory tract bacterial infection is a common problem in medicine that can be seen worldwide. Of several infections, pertussis is an important disease that the patient might present with prolonged cough (1). At present, this infectious disease can still be seen in many developing countries despite the pertussis vaccine has been used for a long time. In Thailand, a tropical country in Indochina, the universal pertussis vaccination for all newborns is the main public health policies but pertussis still exists (2).

Objectives
Here, the authors summarize the data from recent reports on seroprevalence of pertussis among Thai patients with chronic cough.

Materials and Methods
The authors searched for the previous publications reporting the seroprevalence of pertussis among Thai patients with chronic cough. The summarization of the available data in each report was done in order to calculate for the finalized summarized prevalence rate. The 95% confidence interval of the derived finalized summarized prevalence rate was also calculated.

Results
There are at least 2 reports on the seroprevalence of pertussis among Thai patients with chronic cough (3,4). Based on the data from the two included reports, the finalized summarized prevalence rate is equal to 10.3% (23/223) with expected range (95% confidence interval) between 6.7% and 15.2%.

Discussion
Based on the present study, it can be showed that a number of patients with chronic cough in Thailand have evidence of pertussis infection. This can imply the importance of pertussis control in Thailand. Of interest, the big question is on the effectiveness of the present universal pertussis vaccination program in Thailand (5). The new discussed issue in Thailand is the possible implementation of the universal re-booster dose during adolescent (6).

Authors’ contribution
Both authors wrote the manuscript equally.

Conflicts of interest
The authors declared no competing interests.

Core tip
Pertussis is an important respiratory tract bacterial infection. The infectious disease can still be seen in some developing countries despite the vaccination is available. In Thailand, a tropical country in Indochina, this disease is sporadically reported despite there is a universal diphtheria vaccination policy for all newborns. Here, the authors summarize the data from recent reports on seroprevalence of pertussis among Thai patients with chronic cough.

Keywords: Pertussis, Seroprevalence, Thailand
Ethical considerations
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