RISK FACTORS FOR ACTIVE TUBERCULOSIS IN HIV PATIENTS RECEIVING HAART

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M.Sc. (PUBLIC HEALTH) PROGRAM IN INFECTIOUS DISEASES AND EPIDEMIOLOGY

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ABSTRACT

For many decades, Human Immunodeficiency Virus infection (HIV) has become a major public health problem throughout the world because of premature deaths among HIV by Acquire Immunodeficiency Disease Syndrome (AIDS). The major cause of premature death among people living with HIV/AIDS (PLWHA) is tuberculosis (TB), because tuberculosis can accelerate severity of HIV and cause complication of HIV treatment. Early detection of TB can save many lives of PLWHA in addition to providing proper case management.

A matched case-control study was employed to investigate risk factors of TB among PLWHA patients who were diagnosed and treated by Highly Active Antiretroviral Therapy (HAART) during the period from 2008-2012 at Bamrasnaradura Infectious Diseases Institute. Cases were newly confirmed TB who receiving HAART for at least 3 months. Controls were randomly selected from the same risk set on the day case(s) was diagnosed. Conditional logistic regression was applied to estimate Odds ratio at significant level 0.05. Of the 200 pairs of cases and control (samples), this study revealed significant association between TB close contact and history of taking care of TB patient. PLWHA patients who had close contact with TB patient had a higher risk of TB than others (OR=15.3, 95% CI=2.97-78.90). While PLWHA patients who were taking care of TB patient had a higher risk of getting TB, 64.566 times more (95% CI=11.73-355.42) than those who had not. PLWHA patients are highly vulnerable to TB infection. Therefore, strengthening a screening program among PLWHA patients in this high risk group who are at risk is essential to controlling and preventing of TB in these specific groups.

KEY WORDS: RISK FACTOR/ TB/ HIV/ HAART

97 pages