DETERMINANTS OF LATENT TUBERCULOSIS
IN BANDUNG, WEST JAVA

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ABSTRACT

**Background:** TB remains a leading cause of morbidity and mortality in
developing countries, including Indonesia. About 7% of all deaths in
developing countries are attributed to TB. Latent tuberculosis infection (LTBI) is a state of
persistent immune response to stimulation by Mycobacterium tuberculosis
antigens without evidence of clinically manifested active TB. This study aimed to
examine the determinants of latent tuberculosis in Bandung, West Java.

**Subjects dan Method:** This was a cross-sectional study conducted in Bandung,
West Java. A total of 252 peoples were selected for this study, consisting of latent
tuberculosis cases and controls. The dependent variable was latent tuberculosis. The independent variables were age, nutrition status, BCG scar, and smoking. The data were collected by laboratory test and questionnaire. The data was analyzed by
a multiple logistic regression.

**Results:** The risk of latent tuberculosis increased with occasional smoking (OR= 9.34; 95% CI= 4.23 to 20.67), frequent smoking (OR= 12.99; 95% CI= 2.49 to 67.94), poor nutrition status (OR= 2.64; 95% CI= 0.49 to 14.31), but decreased
with BCG scar (OR= 0.45; 95% CI= 0.21 to 0.95).

**Conclusion:** The risk of latent tuberculosis increases with occasional smoking,
frequent smoking, poor nutrition status, but decreases with BCG scar.

**Keywords** : latent tuberculosis, smoking, nutrition status, BCG scar.

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