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Difference of Plasma Interleukin-10 Level in Pulmonary Tuberculosis Patients and Healthy Nurses with Pulmonary Tuberculosis Risk

Abstract

Introduction: Tuberculosis is an emerging infectious disease. Indonesia is the third country with the most cases of tuberculosis in the world. Tuberculosis eradication program is only focused in case finding and treating tuberculosis patients. Health care workers are at risk of tuberculosis infection, but there is no examination yet for early detection of tuberculosis activity. To know the activity of tuberculosis, several examinations should be performed and one of them is IL-10. There is no IL-10 study yet in Indonesia, so a study about the difference of plasma IL-10 levels in lung tuberculosis patients and nurses at risk of lung tuberculosis is needed. Objective: to analyze the difference of plasma IL-10 of lung tuberculosis patients and nurses at risk of lung tuberculosis. Materials and methods: a cross sectional, observational analytical study of 10 nurses at risk of lung tuberculosis and 20 lung tuberculosis patients, has been conducted from March-August 2007, at the Dr. Soetomo General Hospital and Karang Tembok Hospital Surabaya. The lung tuberculosis patients included in this study were those with a positive Mycobacterium tuberculosis sputum culture and who had never been treated with anti-tuberculosis drugs. Nurses at risk of lung tuberculosis were those who had been working more than 2 years with negative Mycobacterium tuberculosis sputum culture, chest X-ray and TB-Dot. IL-10 examination (RayBio® Human IL-10 ELISA Kit, RayBiotech, Inc.) was performed using ELISA method. Differences of plasma IL-10 level in both groups were determined by two independent sample t-test. IL-10 cut-off value was determined by Receiver Operator Characteristics Curve and analyzed using Kappa agreement and McNemar test. Results: plasma IL-10 level in lung tuberculosis patients was 14.1 ± 5.3 pg/ml, while in nurses at risk of lung tuberculosis was 6.7 ± 3.3 pg/ml (p<0.001). IL-10 cut-off value was 8.6 pg/ml. Conclusion: plasma IL-10 level in lung tuberculosis patients was significantly higher than in nurses at risk of lung tuberculosis. IL-10 cut-off value was 8.6 pg/ml.

Keyword: plasma, IL-10, lung, tuberculosis, patients, nurses, at, risk, of, lung, tuberculosis, ,

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