

ABSTRACT

Name : Cyndi Dwi Jayanti
Program Study : Public Health (Occupational Health and Safety)
Title : Factors Associated with the Symptoms of Silicosis in SOWJ-MRT Project Workers at Setiabudi Station Jakarta

Underground construction work has a risk of exposure to silica dust that can cause symptoms of silicosis in workers. This is due to the limitations of space and air circulation in the ground, so that the dust settles and floats in the air that workers can breathe. Silicosis is disabling and often fatal lung disease caused by breathing dust that has very small pieces of crystalline silica in it. Symptoms may include shortness of breath, severe cough, chest pains and weakness. Setiabudi Station is one of the stations under development of MRT Jakarta which is undertaken by SOWJ. The purpose of this study was to investigate and explain the correlation of respirable dust, age, smoking habit, nutritional status and working period for symptoms of silicosis in SOWJ-MRT Project Work Station Setiabudi Jakarta. Penelitian ini menggunakan metode analitik observasional dengan pendekatan *cross sectional* yang melibatkan 30 pekerja sebagai subjek penelitian. The data collected from the primary data are PM 2.5 (air quality measurement) using *High Volume Air Sampler (HVAS)*, filling out questionnaires related to silicosis symptoms information, age, smoking habit, nutritional status and working period. The results showed that there was a significant correlation between respirable dust and silicosis symptoms ($p = 0,011$), there was no significant correlation between age with symptoms of silicosis ($p = 1,000$), there was a significant correlation between smoking habit and silicosis symptoms ($p = 0.042$), there was no significant correlation between nutritional status and symptoms of silicosis ($p = 1,000$), there was no significant correlation between the working period and the symptoms of silicosis ($p = 0,649$). The researchers give the advices to prevent the symptoms of silicosis is the company provides a respirable mask for the workers and provide a warning to workers who have a habit of smoking.

Key Words : Silicosis Symptoms, respirable dust, age, smoking habit, nutritional status and working period

xvii + 67 pages ; 5 pictures; 14 tables

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