ABSTRACT

DETERMINANTS ANALYSIS OF LUNG FUNCTION DISORDERS CAUSED BY FORMALDEHYDE EXPOSURE
(Studies in Plywood Industry PT. XYZ in Lumajang District)

This research that aimed to analyze the determinant factors that affect Lung function disorders caused by formaldehyde exposure. Determinants factors were age, height, weight, BMI, workload, working period, working time, the use of masks, work history, smoking behavior of workers and the number of cigarettes consumed. The research was conducted on gluing workers unit PT. XYZ lumajang district in April - July 2013. The approach in this research was observational with cross-sectional research design. The total population in this research was 53 with a sample of 39 workers. The sampling was done by simple random sampling system. The results showed that there was an effect between lung function disorders with working period (0.008) and number of cigarettes consumed a day (0.029). The results also showed that there was no significant effect between lung function disorders with age, height, weight, BMI, workload, working time, the use of masks, work history, and workers smoking behavior.

Conclusion: The working period and the number of cigarettes consumed with lung function disorders due to formaldehyde exposure in gluing unit PT. XYZ workers in Lumajang district.

Keywords: lung function disorder, formaldehyde exposure, plywood industry

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