

## Hubungan pajanan debu batubara dan gangguan fungsi paru pada pekerja bagian coal handling dan ash handling PLYU X tahun 2014 = Association coal dust exposure and lung function disorder in coal handling and ash handling plant workers in 2014

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### Abstrak

#### [<b>ABSTRAK</b><br>

Salah satu penyebab terjadinya gangguan fungsi paru yaitu pajanan debu batubara. Penelitian ini bertujuan untuk menjelaskan hubungan pajanan debu batubara dan gangguan fungsi paru pada pekerja. Metode yang digunakan desain Cross Sectional dengan sampel 72 pekerja. Gangguan fungsi paru diperoleh dari data kesehatan perusahaan. Hasil penelitian menunjukkan bahwa gangguan fungsi paru restriksi 8,3%, obstruksi 2,8%, dan kombinasi 2,8%. Analisis bivariat menunjukkan gangguan fungsi paru berhubungan dengan masa kerja ( $p = 0,46$ ). Namun pajanan debu batubara, umur, dan penggunaan alat pelindung pernapasan, ada kecenderungan untuk menjadi faktor risiko terjadinya gangguan fungsi paru.

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#### <b>ABSTRACT</b><br>

One of the causes of lung function disorder in health problems is coal dust exposure. This study aims to describe the relationship of coal dust exposure and lung function disorder in workers. The method used cross-sectional design with a sample of 72 workers. Lung function disorder data is obtained from the company health data. The results of this research showed that the restriction of pulmonary function disorder 8.3%, obstruction 2.8%, and a combination of restriction and obstruction 2.8%. Bivariate analysis showed lung function disorder associated with year of work experience ( $p=0,46$ ). However, coal dust exposure, age, and the using of respiratory protective equipment showed there is a tendency to get risk for lung function disorders; One of the causes of lung function disorder in health problems is coal dust exposure. This study aims to describe the relationship of coal dust exposure and lung function disorder in workers. The method used cross-sectional design with a sample of 72 workers. Lung function disorder data is obtained from the company health data. The results of this research showed that the restriction of pulmonary function disorder 8.3%, obstruction 2.8%, and a combination of restriction and obstruction 2.8%. Bivariate analysis showed lung function disorder associated with year of work experience ( $p=0,46$ ). However, coal dust exposure, age, and the using of respiratory protective equipment showed there is a tendency to get risk for lung function disorders, One of the causes of lung function disorder in health problems is coal dust exposure. This study aims to describe the relationship of coal dust exposure and lung function disorder in workers. The method used cross-sectional design with a sample of 72 workers. Lung function disorder data is obtained from the company health data. The results of this research showed that the restriction of pulmonary function disorder 8.3%, obstruction 2.8%, and a combination of restriction and obstruction 2.8%. Bivariate analysis showed lung

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