

## INTISARI

### PENGARUH KADAR DEBU TERHADAP FUNGSI PARU TENAGA KERJA PENGGILINGAN PADI DI KECAMATAN POLOKARTA KABUPATEN SUKOHARJO

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**Latar Belakang:** Paparan debu dapat menyebabkan gangguan kesehatan diantaranya berupa penurunan volume ekspirasi paksa dalam satu detik, dan penurunan volume kapasitas vital. Survey awal penelitian kepada 10 orang karyawan penggilingan padi di wilayah Polokarto yang bekerja di beberapa desa yang berbeda diperoleh keterangan terdapat 6 diantaranya mengalami ciri-ciri dari gangguan infeksi saluran nafas (ISPA) seperti batuk-batuk, sesak nafas dan sakit kepala, karyawan tidak menggunakan Alat Pelindung Diri (APD).

**Tujuan:** Mengetahui pengaruh kadar debu dengan fungsi paru pada pekerja penggilingan padi di Kecamatan Polokarto Kabupaten Sukoharjo.

**Metode:** Jenis penelitian non eksperimen dengan pendekatan *cross sectional*. Populasi dalam penelitian ini adalah para pekerja penggilingan padi di kecamatan polokarto, yang berjumlah 154 orang, diambil sampel 60 orang dengan teknik *purposive sampling*. Alat analisis dengan analisis chi-square dan uji *t-test*.

**Hasil:** (1) Kadar debu di industri penggilingan padi di Kecamatan Polokarto Kabupaten Sukoharjo mayoritas tergolong di atas ambang batas yaitu sebanyak 44 orang (73,3%); (2) Fungsi paru pada tenaga kerja penggilingan padi di Kecamatan Polokarto Kabupaten Sukoharjo sebagian besar tergolong tidak normal yaitu sebanyak 37 orang (61,7%); (3) Terdapat pengaruh kadar debu dengan fungsi paru tenaga kerja penggilingan padi di Kecamatan Polokarto Kabupaten Sukoharjo ( $t_{hit} = 2,648$ ;  $p\text{-value} = 0,010$ ).

**Kesimpulan:** Terdapat pengaruh kadar debu dengan fungsi paru tenaga kerja penggilingan padi di Kecamatan Polokarto Kabupaten Sukoharjo.

**Kata kunci:** Kadar debu, fungsi paru, tenaga kerja penggilingan padi.

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## **ABSTRACT**

### **THE EFFECT OF DUST CONTENT OF PULMONARY FUNCTION OF LABOR IN RICE MILL DISTRICT POLOKARTA SUKOHARJO**

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**Background:** *Exposure to dust can cause health problems such as a decrease in forced expiratory volume in one second, and a decrease in vital capacity volume. Survey start of the study to 10 employees millers in the region Polokarto which works in several different villages obtained information, there are 6 of them experienced the characteristics of the disorder respiratory infections (ARI), such as coughing, shortness of breath and headaches, employees do not use Personal Protective Equipment (PPE).*

**Objective:** *To determine the effect of dust content with lung function in rice mill workers in District Polokarto Sukoharjo district.*

**Method:** *non-experimental studies with cross sectional approach. The population in this study were workers polokarto rice mills in the district, which amounted to 154 people, was taken a sample of 60 people with purposive sampling technique. Analysis tools to the analysis chi-square and t-test.*

**Results:** *(1) Concentration of dust in the rice milling industry in the district of Sukoharjo majority Polokarto classified above the threshold as many as 44 people (73.3%); (2) Pulmonary function on the labor Polokarto rice mill in the district of Sukoharjo largely classified as not normal that as many as 37 people (61.7%); (3) There is the influence of dust content with lung function manpower rice mills in the district Polokarto Sukoharjo (thit = 2.648; p-value = 0.010).*

**Conclusion:** *There is the influence of dust content with lung function manpower rice mills in the district Polokarto Sukoharjo.*

**Keywords:** *Concentration of dust, lung function, labor millers.*

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