

GAMBARAN KADAR *C-reactive protein* (CRP) PADA PEKERJA BATU KAPUR

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ABSTRAK

Lingkungan kerja di industri pertambangan dan pengolahan batu kapur di Dukuh Pancuran Kecamatan Sale Kabupaten Rembang terdapat banyak debu, gas polutan serta serbuk kapur yang dapat terhirup oleh tenaga kerja secara berlebihan hingga terjadi penimbunan debu di paru. Penimbunan dan pergerakan debu di paru mengakibatkan terjadinya peradangan yang mana saat terjadinya peradangan makrofag memproduksi *Interleukin-6* (IL-6) yang merangsang hati membentuk protein fase akut berupa CRP. Tujuan penelitian adalah untuk mengetahui gambaran kadar CRP pada pekerja batu kapur di Dukuh Pancuran Kecamatan Sale Kabupaten Rembang. Jenis penelitian adalah deskriptif. Populasi penelitian adalah pekerja batu kapur di Dukuh Pancuran Kecamatan Sale Kabupaten Rembang. Sampel diambil menggunakan teknik quota sampling yaitu 20 pekerja. Data diperoleh dari kuesioner dan hasil pemeriksaan CRP kemudian dianalisa secara deskriptif. Pengukuran CRP menggunakan metode lateks imunoaglutinasi. Hasil penelitian menunjukkan 15 pekerja memiliki kadar CRP normal, 2 pekerja memiliki kadar CRP 6 iU/mL, dan 3 pekerja memiliki kadar CRP 12 iU/mL. Kesimpulan: sebagian besar pekerja batu kapur di Dukuh Pancuran Kecamatan Sale Kabupaten Rembang memiliki kadar CRP normal.

Kata kunci: Batu kapur, Inflamasi, CRP

DESCRIPTION OF *C-reactive protein* (CRP) LEVELS IN LIMESTONE WORKERS

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ABSTRACT

The working environment in the mining and limestone processing industry in Pancuran, Sale District, Rembang Regency, has a lot of dust, pollutant gases and lime powder which can inhale by limestone workers excessively, it can resulting an accumulation of dust in the lungs. The accumulation and movement of dust in the lungs causes inflammation which is macrophage produce Interleukin-6 (IL-6) to stimulates liver to form an acute phase protein namely CRP. The research purpose was to determine the description of CRP levels in limestone workers in Pancuran, Sale District, Rembang Regency. The type of research is descriptive. The research population was limestone workers in Pancuran, Sale District, Rembang Regency. Samples were taken using a quota sampling technique, namely 20 workers. Data obtained from questionnaires and the CRP examination results then analyzed descriptively. CRP measurement using immunoagglutination latex method. The results showed 15 workers had normal CRP levels, 2 workers had CRP levels of 6 iU / mL, and 3 workers had CRP levels of 12 iU / mL. In conclusion: most of the limestone workers in Pancuran, Sale District, Rembang Regency had normal CRP levels.

Keywords: *Limestone, Inflammation, CRP*