

# Tingkat kepatuhan penggunaan alat pelindung diri masker n-series tipe 8211 dan gambaran fungsi paru pada pekerja tambang batubara PT.X di Kutai Kartanegara, Kalimantan Timur = Compliance of personal protective equipment ppe n series mask type 8211 and the description of lung function of the coal mining workers PT.X Kutai Kartanegara East Borneo

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## Abstrak

### <b>ABSTRAK</b>

Latar Belakang: Paparan utama pada pekerja tambang batubara adalah debu kimia yang akan menimbulkan gangguan fungsi pernapasan dengan paparan kronis menahun. PT. X mengalami trend peningkatan prevalensi penurunan fungsi paru selama tiga tahun 2013 ndash; 2015 yaitu 15.8 , 18.3 , dan 21.9 . November 2015, PT. X menerapkan kebijakan menggunakan APD masker N-series tipe 8211 pada pekerja lapangan. Metode :Penelitian menggunakan desain potong lintang pada PT. X, Kontraktor Tambang Batubara di Kalimantan Timur dengan 300 orang dipilih secara convenient sampling. Pengambilan data primer dengan wawancara dan pengisian kuisioner penelitian, sedangkan data sekunder dari data laporan kesehatan tahunan 2015 ndash; 2016 dan data laporan bulanan HRD - HSE PT. X. Variabel yang diteliti adalah motivasi kerja, tingkat pengetahuan, kenyamanan kerja, reward/punishment, masa kerja, status kerja, supervisi pengawas, dan ketersediaan fasilitas masker. Penelitian ini juga melihat distribusi penurunan fungsi paru per 2015 - 2016. Hasil :Dijumpai 82 pekerja patuh menggunakan masker. Terdapat hubungan antara motivasi kerja p 0.02, ORa 4.80, 95 CI 1.22 ndash; 18.86 , tingkat pengetahuan.

### <hr><i><b>ABSTRACT</b>

Background: Main hazard for the coal mining workers is chemical dust that cause declining of lung function with chronic exposure. PT. X experienced elevated trend of declining lung function of workers within past three years 2013 ndash 2015 i.e. 15.8 , 18.3 , and 21.9 . November 2015, PT. X stipulated new policy to its field workers that oblige them to use PPE mask of N series type 8211. Method This study uses cross sectional design on PT. X, a coal mining contractor in East Borneo, with 300 people chosen by convenient sampling. Primary data collection was conducted via interview and filling questionnaire secondary data collection was compiled from PT. X rsquo s MCU reports of 2015 2016 and HRD HSE monthly reports. Studied variables are work motivation, knowledge, PPE comfortability, reward punishment, working duration, working status, supervision, and availability of the PPE mask. The study also describe the declining lung function as per 2015 2016. Study Results As much as 82 of workers are comply to use PPE. There are statistically significant relation between work motivation p 0.02, ORa 4.80, 95 CI 1.22 ndash 18.86 , PPE knowledge.</i>