

## Tingkat kebisingan dengan gangguan pendengaran pada PT X tahun 2019 = Noise level and hearing loss among workers at PT X in 2019

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### Abstrak

Penelitian ini bertujuan untuk menganalisis tingkat kebisingan, faktor karakteristik pekerja (usia, masa kerja, durasi kerja, riwayat diabetes, riwayat hipertensi), dan faktor perilaku pekerja (penggunaan APT dan perilaku merokok), dengan gangguan pendengaran pada pekerja bagian refining PT X tahun 2019. Desain studi yang digunakan dalam penelitian ini adalah cross-sectional dengan jumlah sampel sebanyak 66 orang pekerja bagian refining. Data gangguan pendengaran pada pekerja diperoleh dari hasil Medical Check Up rutin yang dilakukan oleh perusahaan, sedangkan data tingkat kebisingan diperoleh melalui pengukuran secara langsung menggunakan Sound Level Meter di area kerja bagian refining. Hasil uji Chi Square menunjukkan bahwa terdapat hubungan yang signifikan antara usia (OR 7; 95% CI: 1,608-30,474), masa kerja (OR 7,8; 95% CI: 0,925-65,747, dan perilaku merokok (OR 7,8; 95% CI: 0,925-65,747) dengan gangguan pendengaran pada pekerja bagian refining. Selain itu, didapatkan rata-rata tingkat kebisingan yang berbeda pada setiap unit kerja bagian refining, yakni unit kerja Peleburan sebesar 87,08 dBA, Pemurnian Perak sebesar 89,04 dBA, Pemurnian Emas sebesar 83,25 dBA, dan Waste Management sebesar 77,85 dBA.

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This study aims to analyze noise level, characteristics of worker (age, work period, work duration, history of diabetes, history of hypertension), worker behaviour (use of ear protector and smoking behaviour) with hearing loss among refining unit workers at PT X in 2019. A cross-sectional study was conducted involving 66 refining workers. Data on hearing loss among workers are obtained from the results of routine medical check up conducted by the company, while noise level data is obtained through direct measurement using the Sound Level Meter in the refining section work area. Chi Square test results showed that there was a significant relationship between age (OR 7; 95% CI: 1,608-30,474), work period (OR 7.8; 95% CI: 0.925-65,747, and smoking behavior (OR 7.8; 95% CI: 0.925-65,747) with hearing loss among refining workers. In addition, different noise levels were obtained for each refining work unit, the Smelting work unit was 87.08 dBA, Silver Refining was 89.04 dBA, Gold Refining was 83.25 dBA, and Waste Management was 77, 85 dBA.