

## Tingkat kebisingan dan gangguan pendengaran pada pekerja di Pelabuhan Udara El Tari Kupang 2016 = Noise level and hearing impairment of the workers in El Tari Airport of Kupang in 2016

Primus Mitaran, author

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### Abstrak

Gangguan pendengaran akibat bising masih menjadi masalah kesehatan baik di dunia maupun Indonesia. Data WHO 2005 melaporkan bahwa 278 juta 4.2 penduduk dunia mengalami gangguan pendengaran, 50 di Asia Tenggara termasuk Indonesia. Tingkat kebisingan di pelabuhan udara El Tari Kupang tahun 2010 mencapai 92,2 dB pada pagi hari dan 95,2 dB pada siang hari. Pada tahun 2011 tingkat kebisingan di area apron atau area udara mencapai rata-rata 90,48dB dengan interval 74,5-120 dB dan di area terminal rata-rata 89,2 dB. Pada tahun 2013 mencapai 91,5 dB di area apron dan 97,2 dB di ruangan check in, di ruangan keberangkatan mencapai 97 dB Data Tahunan KKP Kupang.

Penelitian ini bertujuan untuk mengetahui hubungan tingkat kebisingan dengan gangguan pendengaran pada pekerja di pelabuhan udara El Tari Kupang. Penelitian ini dilakukan menggunakan desain studi cross sectional analitik. Populasi studi pada penelitian ini adalah pekerja berjenis kelamin laki-laki yang bekerja pada perusahaan ground handling di pelabuhan udara El Tari Kupang tahun 2016. Hasil penelitian menemukan prevalensi gangguan pendengaran sensorineural pada pekerja di pelabuhan udara El tari Kupang sebesar 39,5.

Hasil estimasi risiko menemukan PR=1,80: 95 CI 1,01-3,19 artinya risiko gangguan pendengaran sensorineural pada pekerja ground handling yang terpapar tingkat kebisingan > 85 dBA 1,80 kali dibandingkan dengan pekerja ground handling yang terpapar tingkat kebisingan le; 85 dBA selama 8 jam TWA sehari di pelabuhan udara El Tari Kupang.

Kesimpulan: ada perbedaan risiko kejadian gangguan pendengaran antara pekerja yang terpapar tingkat kebisingan > 85 dBA dengan pekerja yang terpapar tingkat kebisingan le; 85 dBA selama 8 jam TWA sehari. Upaya pencegahan penting dilakukan yaitu mewajibkan semua pekerja menggunakan APD ear plug atau ear muff terutama yang bekerja di area apron pelabuhan udara El Tari Kupang.

.....Noise induced hearing impairment remained a health issue in Indonesia and the world. WHO 2005 reported 278 million 4.2 of the world population suffered from hearing impairment, 50 of them lives in South East Asia including Indonesia. In 2010, the noise level in El Tari airport of Kupang reached 92.2 dB in the morning and 95.2 dB in the noon time. In 2011, the noise level within the apron area or the air area reach the average of 90.48 dB with the interval of 74.5 ndash 120 dB and within the terminal area it reached the average of 89.2 dB. In 2013 the figure reached 91.5 dB within the apron area and 97.2 dB within the check in area, while within the departure area it reached 97 dB. Kupang Port Health Office, Annual Reports.

This research aims to find out the relationship between the noise level and the noise induced hearing impairment amongst the workers of El Tari airport in Kupang. The research applied cross sectional analytical design study. The study population of this research is male workers who works for the ground handling companies of El Tari airport in Kupang in 2016. The research found that the prevalence of sensorineural hearing impairment within the workers of El Tari airport in Kupang is 39.5.

The risk estimation result showed PR 1,80 95 CI 1,01 3,19. It means that the risk of suffering from sensorineural hearing impairment within the ground handling workers with the noise level exposure of more than 85 dB is 1.80 times compared to those with less or equal to 85 dBA noise level exposure for 8 TWA hours a day in the airport.

Conclusion there is a difference in the risk of suffering from sensorineural hearing impairment between the workers exposed to more than 85 dBA noise level and those exposed to less or equal to 85 dBA noise level per 8 TWA hours a day. It is crucial to take prevention efforts as in obliged the workers especially those working within the apron area of El Tari airport to use self protection devices ear plug or ear muff during their working hours within the apron area.