ABSTRACT

Traffic noise has already can be one of the environmental issue in the big city right now. Level of traffic noise can be high level until 70-80 dB. Noise have impacts especially on the increased blood pressure (hypertension) and hearing loss. Purpose of this study was to analyzing the relationship between level of traffic noise with increased blood pressure and hearing loss in pedicab drivers around Purabaya bus station.

The study was carried out using a cross-sectional method. Noise measurements was carried out in two places, around Purabaya bus station (study group) and Dukuh Menanggal Surabaya (control group) each measured eight times at one point. Method of sampling used simple random sampling respectively 22 respondents, so the total of sampling are 44 respondents.

The results of the study indicate there is significant relationship between the level of traffic noise and increased blood pressure (p = 0,034), but there is no significant relationship between the level of traffic noise and hearing loss. Other factors related with blood pressure is the history of family descent (p = 0,002). But there are no other factors associated with hearing loss (perception deafness).

The conclusion that can be drawn is the traffic noise related with the increase in blood pressure on a pedicab driver, but was not associated with hearing loss (perception deafness). Recommendation for the next researchers to measure the traffic noise more than a day and research any risk factors toward blood pressure and hearing loss.

Keywords: traffic noise, blood pressure, hearing loss, pedicab drivers.