

ABSTRACT

Related Factors with Lead Levels in the Blood on Gas Station's Operator in Tamalanrea District, Makassar

Gas Station are business activities in the field of distribution of fuel to operate 24 hours a day to serve consumers with operator as gas station servant. Gas station are located at the side of highway. It makes all Operator could be exposed by the fume from vehicles as well as vehicles are in a queue of refueling process easily. The Chemicals are surrounding Operators so it would give extra burden on Operator that would affect their health.

This research aims to analyze related factors with lead levels in the blood on gas station's operator in Tamalanrea District, Makassar. This research had been conducted since June until July 2014 and this research used quantitative research are analytical survey with cross sectional design with the number of sample were 51 gas station's operator.

This Analysis using Pearson product moment correlation test to test the strength of the relation of factors related to the level of lead in the blood at the gas station's operator while to see the most dominant factor affecting levels of lead in the blood used linear regression test. Correlation result test showed that there are relations between characteristic respondents, working time and the amount of fuel sold with significant value $\leq 0,05$. Linear regression test result showed that the work, the amount of fuel sold and eating habits before work is the most associated with factors that lead levels in the blood.

Lead exposure of workers could be controlled by the company fuel distribution (PT. Pertamina Retail Section), the supervisor of gas station and the workers. They must follow the procedures of service operator to consumers with the slogan of 3S and they must socialize to all workers for using self protective equipments like respirator, for gas station supervisor must pay attention on health's monitoring, checking preodic and workers must improve the understanding of reducing smoking habit and also must have a good personal hygiene.

Keywords: lead, gas station's operator, characteristic operated, working time