

ABSTRACT

Ertha Dwi Carmelia Putri. 2023. *The Relationship between Knowledge of PPE, utilization of PPE dan work period with Occupational Accidents at the Cracker Factory Trade. VIRRA Jaya, Kepanjen Malang*, Thesis, Malang Ministry of Health Polytechnic, Applied Occupational Safety and Health Bachelor Study Program. Preceptor I : Rizki Mustika Riswari, SST., MPH, Preceptor II : Ani Asriani Basri SKM., M.KKK. Email : ertha_p17451204023@poltekkes-malang.ac.id

Background: *Informal sector workers still dominate in Indonesia, the Cracker Factory Trade. VIRRA Jaya is a business in the informal sector which operates in the food sector, namely the production of crackers, where every activity has high danger and risk. Dangerous work situations and conditions from unsafe workplaces can result in cases of work accidents. Work accident that occurred at the UD cracker factory. VIRRA Jaya is the result of not using PPE, which causes burns, shortness of breath and allergies. This research aims to determine the relationship between knowledge of PPE, use of PPE and years of work with work accidents at the UD cracker factory. VIRRA Jaya, Kepanjen sub-district, Malang regency.*

Method: *The research method used is quantitative using a cross-sectional method. Besides the sampling technique was total sampling with a sample of 30 people. The data collection used questionnaire instruments and field observations. The data analysis using the Chi-Square test and Odds Ratio (OR).*

Result: *Based on the results of the analysis, the significance value of the relationship between PPE knowledge and work accidents was obtained ($p = 0.000 < \alpha 0.05$) with an OR value (0.020), the relationship between PPE use and work accidents ($p = 0.001 < \alpha 0.05$) with an OR value (0.048) and the relationship between work experience and work accidents ($p = 0.003 < \alpha 0.05$) with an OR value (0.076).*

Conclusion: *The third variable in this study has a significant relationship with work accidents, workers at the UD cracker factory. Virra Jaya, Kepanjen District, Malang Regency has insufficient knowledge, 21 people do not use complete PPE and most of the new workers are <6 years old.*

Keywords: *knowledge of PPE, utilization of PPE, work period, work accidents*