

## **ABSTRACT**

### **RISK FACTORS ANALYSIS OF CARPAL TUNNEL SYNDROME ON CHIPS WORKERS IN CHIPS INDUSTRY CENTER OF BANDARLAMPUNG**

by

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Carpal Tunnel Syndrome (CTS) is a work related disease (Work related Musculoskeletal Disorders) and also called Cumulative Trauma Disorder (CTD). The highest prevalence was observed in manufacturers, construction, personal services industry, and in the trade sector. The purpose of this study was to determine the relation of age, gender, work duration, work periode, and BMI related to incidence of CTS and to determine the factors which is most associated with CTS on chips manufacturers in Bandarlampung's Center Chips.

Method of this research is analytic survey with cross-sectional approach. The research took place in Chips Industry Center of Bandar Lampung in Pagar Alam Road 1, Village Segalamider, Kedaton, Bandar Lampung on October-November 2014. The population used all workers in the Chips Industry Center in Bandar Lampung, 57 workers. The sampling method used total sampling. The statistical analysis used *chi-square* and *regretion logistic* test.

The results of this study are total of 27 respondents (47.4%) who complained of the Carpal Tunnel Syndrome (CTS). There is a significant relation between BMI, age of respondent, work duration and work periode, while gender does not have significant relation.

The conclusion of this study is IMT as a risk factor that most influence on the incidence of Carpal Tunnel Syndrome (CTS) on chips working in the Chips Center Industry Bandarlampung with OR=0,33.

Keywords: carpal tunnel syndrome, BMI, work duration, work periode, age.