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Model of Bacterial Contamination on Street Food Sold at Primary Schools By Diah Titik Mutiarawati

ORIGINAL RESEARCH ARTICLE Int J Pharm Bio Sci Volume 7 Issue 1, 2016 (January - March), Pages:445-449 MODEL OF BACTERIAL CONTAMINATION ON STREET FOOD SOLD AT PRIMARY SCHOOLS TJIPTO RINI AND DIAH TITIK MUTIARAWATI DOI: [Download PDF] Abstract: Street food might be contaminated by bacteria through unhygienic preparation process, improper storing method (i.e. exposure to open- air which resulted in attracting flies and dust contamination), or caused by the vendors' lacks of hygiene awareness, such as by touching the food directly using unhygienic hands and talking while serving the customers. Most of the producers also did not pay much attention on hygienic and sanitary aspects during preparing their products so that the products they served potentially contained pathogenic bacteria, such as Escherichia coli, Salmonella sp. and Klebsiella sp. This phenomena was caused by their low educational level resulted in their ignorance on health awareness. This research was conducted to confirm the indicators composing educational level variable, health awareness variable, food preparation variable, and bacterial contamination variable. This cross-sectional research applied observational design aimed to examine and explain causal relationship among the variables by testing the hypotheses. Structural Equation Modeling (SEM) statistical analysis using Partial Least Square (PLS) software was used to confirm the indicators composing the variables and finding the best model of effect paths. The findings of this research proved that the variables were measurable through its indicators. The best testing model indicated that educational level affected bacterial contamination through health awareness. This research provided a new perspective on further researches, studies, and policies made in the future. Government needs to issue policies which are in accordance with changing environment and to formulate a system to guide the behavior of food vendor. The government is also expected to be able to internalize the policies and system into an organizational practice. Keywords: Educational Level, Health Awareness, Food Preparation, Bacterial Contamination