

عنوان مقاله:

Combined effect of workplace noise and smoking on some hematological parameters on workers in a food manufacturing plant

محل انتشار:

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خلاصه مقاله:

Generally, no industry can be found to be safe in terms of noise pollution. Noise is the wide- spread form of environmental stressor in the industrialized urban areas. Aim: the purpose of this paper is to evaluate the combined effect of workplace noise and smoking on some hematological parameters on employing work in a food manufacturing plant. This is a retrospective study before and after for five years since starting of the work. In this study, 50 male subjects participated: smokers (n=11) and nonsmokers (n=39), for further individual information and certain specific points, a developed standard questionnaire, were filled out by participants. For the past 4-year's details, blood tests and medical records of persons since initially hired, were used. The details of the fifth year were measured by the presenters. Using the ISO protocol 1999 and 9612, workplace noise was measured and the noise map was drawn using arc-view GIS software. Statistical analysis SPSS software version 18 was investigated. Due to the nature of the study, the significance level was set at a P value ≤ 0.1 . Statistical findings and laboratory data showed that the effect of noise and smoking on red blood cells and white blood cells of smokers and nonsmokers was significant ($p < 0.1$), so that the amount of red blood cells in smokers who are exposed to noise exceeding 88.83 dB, is higher than nonsmokers, and the white blood cells are lower in nonsmokers in compared with smokers. Our findings showed that combined of workplace noise and smoking has severe adverse effects on hematological parameters, and these alterations might be associated with a greater risk for more diseases. It is notable that results are from a research effort of its researchers and it is not completely certain so further investigation will be needed

کلمات کلیدی:

Hematocrit, Hematological, Hemoglobin, Smoking, Work Place Noise

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