

## Examining the effect of physical, chemical and biological harmful factors on miners

**Authors:****Jafar Jalilian****Institution:**

MSc of Toxicology,  
Mazandaran University of  
Medical Science, Sari, Iran.

**Corresponding author:****Jafar Jalilian****Abstract:**

Mining is considered as a difficult and harmful job as it is done in a very difficult physical and environmental condition. In addition to that, miners are exposed to the dangers, damages and even death because of the bad condition of mines. The dangers of mines are different in accordance with the kind of mine which may be underground or surfaces. The dangers may be a bit different in different cities and mines. Main harmful factors in mining are the physical damages, hyperthermia, hearing loss, lung diseases, musculoskeletal diseases and facing with dangerous gases and beams. The purpose of this essay is to examine the effect of physical, chemical and biological harmful factor on miners. This survey has adopted descriptive method and data are collected by library method. The results showed that the exposure of chemical factors such as dust, methane and silica, and physical factors such as noise, radiation, and biological factors may have great danger for miners.

**Keywords:**

Harmful factors, Miners, Physical-chemical dangers.