

عنوان مقاله:

Cardiovascular deaths related to Carbon monoxide Exposure in Ahvaz, Iran

محل انتشار:

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خلاصه مقاله:

Carbon monoxide is an odorless, colorless and toxic gas that emitted from combustion. Carbon monoxide can cause harmful health effects by reducing oxygen delivery to the body's organs (like the heart and brain), tissues, fibrinolysis effects, abortion and death at extremely high levels. The aim of this study was to assess health- effects of carbon monoxide exposure in Ahvaz city. Data were collected through Ahvaz Meteorological Organization and Department of Environment. Raw data processing by Excel software includes (instruction set correction of averaging, coding and filtering) and after the impact of meteorological parameters was converted as input file to the Air Q model. Finally, health-effects of carbon monoxide exposure were calculated. The results showed that the concentration of carbon monoxide was 7.41 mg/m³ in Ahvaz as annual average. Sum of total numbers of deaths attributed to carbon monoxide was 16 cases within a year. Approximately 4.3% of total Cardiovascular deaths happened when the carbon monoxide concentrations was more than 20 mg/m³. This could be due to higher fuel consumption gasoline in vehicles, Oil industry, steel and Heavy industries in Ahwaz. Mortality and Morbidity risks were detected at current ambient concentrations of air pollutants

کلمات کلیدی:

Carbon monoxide, Cardiovascular deaths, Mortality, Morbidity, Ahvaz

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