Anguishing Reports of Ambient Air Pollution in Tehran Capital of Iran

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Benzene is the aromatic hydrocarbon, organic and petrochemicals. It has high octane number and used as ethybenzene. It composed a few percent of gasoline mass less than 1%. Benzene was used before 1950 but after that year replaced with tetraethyl lead. The recent material was associated with environmental pollution so came back again benzene in the petrol cycle production. Human is exposed with benzene by several ruts; gasoline fumes, motor vehicle exhaust, and smoking. Inhalation is the main route of toxicity in urban area. Standard threshold of benzene concentration is 1.56 part per billion (PPB) in accepted air quality. The current study displayed that benzene concentration in Tehran (capital of Iran) was between 2-20 times higher than the standard (1). This is the first official report published about ambient air pollution in 2013. However, the Tehran Ministry of Health announced that Asbestos and benzene levels had 50-100, respectively. It means that there were 10 times more than standard levels in the Tehran urban area.

These materials, especially benzene, has potential ability as cancer risk factor to inducing acute and chronic bloods leukemia (3). In addition, there are relations between benzene exposure and lung cancer (4). Benzene can induce aryl hydrocarbon receptor which leads to tumorigenesis (5). The vision of information dictates assumption of planning in two aspects. The arrangement may be suggested that the sources of pollutants will be reduced in the environment thought activation of dependable organizations and investigation of at-risk population based on the prioritizes.

References


2. 5,000 people annually die in Tehran because of heavy air pollution. Available at the: http://en.trend.az/regions/iran/2081607.htm I, in 2014


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