

عنوان مقاله:

Relationship of Respiratory Diseases and the Lead Level in Tiran & Karvan Region, Iran

محل انتشار:

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خلاصه مقاله:

Aims Lead is emerged as one of the most hazardous elements, existing in the air and soil, which can create irreparable outcomes in the human body due to its highly severe damages. The aim of this study was to determine the relationship between Lead level and the respiratory diseases in Tiran & Karvan Region, Iran. Instrument & Methods The research methodology was analytical based on the documents and evidence, and library studies and was performed during 2011 to 2015 in Tiran & Karvan Region, Isfahan Province, Iran. The respiratory diseases statistics regarding the studied areas were gathered from the information and statistics of Isfahan University of Medical Sciences and Iran Management Center for Diseases during 2007 to 2009 documents (3215 cases). 110 soil samples and 55 water samples were collected from different positions at Summer 2011, randomly. The variation map of the respiratory diseases and lead spatial distribution for research area were drawn by Arc GIS 10.2 software. Findings The concentration of lead was 59.4 ± 7.9 ppm in soil and 48.2 ± 4.1 ppm in water of the region. The lead variation map showed that the soil in the eastern, northern and western areas consists of a relatively high portion of lead. Also special distribution of the respiratory diseases in Tiran & Karvan showed that the disease variation is in a cluster manner and that the disease follows a special centralization. Conclusion There is a direct relation between respiratory diseases distribution and the existence of lead in Tiran & Karvan Region, Isfahan Province, Iran.

کلمات کلیدی:

Respiration Disorders; Contamination; Lead; Soil; Water

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