

P81. SLY POISON ARSENIC: OCCUPATIONAL ARSENIC EXPOSURE THAT COME TRUE IN TURKEY

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Arsenic belongs to nitrogen group and has three allotropes; which are black, yellow and grey arsenic. Arsenic is 33rd element in the periodic table furthermore, it is colorless and odorless. It can be found in rocks, soil, water and air. There are two forms of arsenic; organic and inorganic. Since inorganic arsenic compounds are more toxic than other compounds, 70- 180 mg of it is enough to kill a human. Arsenic can be exposed through the mouth, skin and air. It accumulates in nails and hair and is excreted via urine, sweat and skin.

Dysphagia, abdominal pain, diarrhea, vomiting, muscle cramps and feeling of dehydration are symptoms of arsenic poisoning. Since arsenic is very poisonous, colorless and odorless, it was used in many suicide and homicide incidents in the past. Many famous people, such as Napoleon, was poisoned by arsenic.

Arsenic poisonings are mostly originated from drinking arsenic contaminated water and being exposed occupationally to arsenic in Turkey. The highest occupational exposure occurred in Kütahya, Gümüşköy so far. Arsenic poisoning causes permanent damage to people, who are exposed to it occupationally, such as cancer, skin lesions and loss of limbs. This study will refer exposure to arsenic occupationally in Turkey.