BIOMONITORING OF HEAVY METALS USING SOFT DRINKS FROM MISURATA CITY-LIBYA.

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Some 50 canned soft drink specimens collected from supermarkets across several regions in Misurata-Libya were analysed for Pb, Fe, Cu, Zn and Cd using atomic absorption spectrometry following digestion with an HCl and HNO₃ mixture (aquaregia) and H₂O₂.

The mean levels (±SE) of lead, iron, copper, zinc, and cadmium were found to be 0.170±0.038 mg/kg, 0.436±0.333 mg/kg, 0.187±0.181 mg/kg, 1.300±0.751 mg/kg, and 0.006±0.0016 mg/kg, respectively, in the soft drinks. Our data revealed that lead, iron, copper, zinc, and cadmium mean levels found in all soft drinks, collected from several regions in Misurata-Libya, were within the Libyan National Centre for Standardization and Metrology (LNCSM) values.

Keywords-Biomonitoring; heavymetals; Misurata/Libya, softdrinks, wetashing