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Trace Elements in the Drinking Water and Their Possible Health Effects in Aligarh City, India

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ABSTRACT

Environmental degradation and unethical human intervention in the natural system has increased the concern for the betterment of healthy living. The deterioration of aquatic system is commonplace in the developing world. The present paper shows the trace elements (Ni, Zn, Fe, Pb, Cd, Co, Cu and Mn) concentrations in the drinking water of Aligarh city and their possible effect on the health of the inhabitants. The higher concentration of some elements in the drinking water and the poor health of inhabitants are found correlated. The statistical analysis of the data shows positive correlation between some elements. The principal component analysis of the data gives four factors with significance level of 42%, 29%, 15% and 12% respectively.

KEYWORDS

Water Quality, Trace Elements, Drinking Water, Health

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