

عنوان مقاله:

Fluoride Content of Bottled Drinking Water Available in North West of Iran

محل انتشار:

مجله آرشیو علوم بهداشتی، دوره 4، شماره 2 (سال: 1394)

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خلاصه مقاله:

Background: Consumption of bottled waters has received popularity and more acceptances. Fluoride is necessary for human life. But high levels of fluoride can cause some problems for human health such as Fluorosis and teeth and bones problems. The aim of this study is measure the fluoride content in bottled waters consumed in North West of Iran and comparison with the amount listed on their labels and with the drinking water standards. Methods: In this study, 10 brands of bottled water were sampled from markets over the two seasons randomly. Samples were analyzed for fluoride using Ion Chromatography (IC) method. Results: Results showed that fluoride concentration in different brands had a significant difference ($P < 0.05$). The concentration of fluoride in samples ranged between 0.04 and 0.32 mg/L. Among analyzed selected brands four brands were observed significant differences with the measured values. Conclusion: Totally the measured values didn't match with the values declared on the labels (Reliability coefficient < 0). It was revealed that fluoride concentration in all brands was less than the lower range of Iranian (national standard (0.7-1.2 mg/lit

کلمات کلیدی:

Bottled water, Fluoride, Drinking water, Health effects, Standard

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