

FLUORIDE CONCENTRATION IN BOTTLED DRINKING WATER

IN AL-BASRA CITY, IRAQ

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ABSTRACT

Background: This study aimed to measure the amount of fluoride in commercially available bottled drinking water in Al-Basra city, Iraq

Materials and Methods: Eleven brands of bottled drinking water were obtained from supermarkets in Al-Basra city, Iraq. Two sample of 10 ml. were taking from each one of brands and the fluoride was determined using fluoride Ion Selective Electrode. The mean was taken for two sample and compare with label content for each products if available.

Results: the descriptive analysis for different types are show in table 1 with ($p=0.00$) . The mean (\pm SD) difference was 0.251 (\pm 0.01) ANOVA test for comparison between different types show highly significant different between Evian, BADIOT, Aquafina, OXAB and pure healthy water with others commercially branded types

Conclusions: Bottled water available in Al-Basra city contains less concentration of fluoride ion than normal values because there is no adding of fluoride to the water. It's not safe for program of preventive dental caries.

KEYWORDS: Bottled Water, Fluoride, Al-Basra, Iraq