

## Fluoride Content of Packaged Milk and Infant Formulas in Tehran

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### Abstract

**Background and Aim:** The actual fluoride content of packaged milk and infant formulas are among the main concerns of the dental society. Regarding the lack of information about this issue, the current study aims to determine the concentration of fluoride in cow's milk and formulae widely used in Tehran, Iran, 2012.

**Materials and Methods:** In this cross-sectional study, samples of 9 common brands of cow's milk and 2 milk-based powdered infant formulas were obtained and the fluoride content of the samples was assessed using potentiometry method. The ANOVA test was performed to analyze the statistical results of the study.

**Result:** The mean fluoride concentration in milk samples was  $0.15 \pm 0.06$  ppm however, the difference was not statistically significant. ( $P < 0.5$ ) The minimum fluoride level was  $0.12 \pm 0.1$  ppm in Damdaran brand of cow's milk while the maximum fluoride concentration was found to be  $0.17 \pm 0.08$  ppm in Choopan Brand. The difference in fluoride content was not statistically different. ( $p < 0.5$ )

**Conclusion:** It seems that there is not statistically difference between the amount of fluoride in drinking milk brands in Tehran. Clarification of the amount of fluoride content in this products is suggested.

**Keywords:** *Fluoride; Cow's milk; Infant Formula*