

Fluoride Concentration of Drinking Water and Prevalence of Dental Fluorosis

Amir Hossein Mahvi
Iran

SUMMARY

Despite considerable research on the effectiveness of water fluoridation and prevalence of dental fluorosis, there is a lack of comprehensive systematic review. Systematic review provides a summary of current literature. Considering the importance of epidemiological studies in this field, the objective of this study is to systematically review dental fluorosis prevalence at water fluoride levels in the world, and put emphasis on fluoride concentration of drinking water and prevalence of dental fluorosis. A comprehensive study was carried out using 4 electronic databases including PubMed, Scopus, SID and IranMedex. Inclusion criteria were predefined and some articles met them. Study validity was assessed with some checklists. Surveys were conducted to ascertain dental fluorosis prevalence among individuals. The findings of this study provide researches with a comprehensive outlook on the literature of fluoride concentration of drinking water and prevalence of dental fluorosis.

Keywords: Dental fluorosis; Fluorides; Systematic review; Water.

^aSchool of Public Health, Tehran University of Medical Sciences, Tehran, Iran

^cCenter for Solid Waste Research, Institute for Environmental Research, Tehran University of Medical Sciences, Tehran, Iran

A.H. Mahvi; Tel: +98 2188954914; E-Mail: ahmahvi@yahoo.com; Fax number: +98 2188950188