

Environmental Factors And Dental Caries

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Environmental Factors And Dental Caries

Adjusted models showed risk factors for caries were lack of community water fluoridation, the enamel defect hypomineralized second primary molars (HSPM) and maternal obesity. Authors said the findings bolster previous studies that found links between dental caries and both lack of water fluoridation and HSPM.

Study: Environmental factors influence dental caries more ...

Dental caries remains the most common chronic childhood disease. Despite strong evidence of genetic components, there have been few studies of candidate genes and caries. In this analysis we tried to assess genetic and environmental factors contributing to childhood caries in the Iowa Fluoride Study. Environmental factors (age, sex, race, tooth-brushing frequencies and water fluoride level) and three dental caries scores (d(2)fs-total, d(2)fs-pit/fissure, and d(2)fs-smooth surface) were ...

Genetic and environmental factors associated with dental ...

The findings suggest environmental factors overshadow genetics as the main cause of caries. Led by researchers at the University of Melbourne, the study, " Genetic and Early Life Environmental Influences on Dental Caries Risk: A Twin Study," examined the teeth of 173 sets of Australian twins (identical and fraternal).

Environmental Factors, Not Genetics, May Be Cause of ...

Environmental factors Results of the univariate analysis showed that environmental factors of gender, household monthly income, one-child family, Plaque Index and Cariostat score were associated with caries ($p < 0.05$) (Table 2).

Association of genetic and environmental factors with ...

Some factors that are more easily controlled by daily regimen and treatment are oral hygiene, diet, dentition, cariogenic bacteria, exposure to fluoride, exposure to pH-altering liquids and quality and quantity of saliva.

Dental Caries

Dental caries is a multifactorial, polymicrobial disease with environmental, behavioral and host risk factors. 1 The presence of cariogenic bacteria and fermentable carbohydrates are prerequisites for dental caries, with bacterial metabolic activity resulting in the production of acid that can demineralize dental hard tissues. 1

The Bacteria Responsible for Dental Caries: Genetics ...

First, dental caries is caused by multiple factors, which contain physical, biological, environmental, behaviour and lifestyle-related factors such as high numbers of cariogenic bacteria, inadequate salivary flow, insufficient fluoride exposure, poor oral hygiene, inappropriate methods of feeding infants and poverty . We only included some of ...

Structural equation modelling for associated factors with ...

Dental caries is the most common chronic disease of adult and childhood, a largely preventable yet widespread, costly public health problem. This study identified patient-, organization-, and system-level factors influencing routine delivery of recommended care for prevention and management of caries in primary dental care. A convergent mixed-methods design assessed six guidance-recommended ...

Patient-, organization-, and system-level barriers and ...

Dental caries is the most common chronic infectious disease of childhood caused by the interaction of bacteria, mainly *Streptococcus mutans* and sugary foods on tooth enamel. This study aimed at determining the prevalence and associated factors of dental caries among primary school children at Bahir Dar city. A school based cross-sectional study was conducted at Bahir Dar city from October 2013 ...

Dental caries and associated factors among primary school ...

Dental caries among preschool children is highly prevalent in many less-developed countries. A model which explored the factors related to children's dental caries was tested in this study using structural equation modeling. Caregivers of children aged 5 years were surveyed on their socioeconomic status, and their oral health knowledge, attitudes and practices.

Factors related to children's caries: a structural ...

The genomic era is increasing scientific understanding of dental caries determinants, based on the interactions of host, oral flora and environmental factors. PURCHASE COURSE. This course was published in the September 2018 issue and expires September 2021. The author has no commercial conflicts of interest to disclose.

Genetic Determinants of Risk and Resistance to Dental Caries

The aetiology of dental caries involves a complex interplay of individual, behavioural, social, economic, political and environmental conditions, and there is increasing interest in genetic predisposition and epigenetic modification.

Protocol for assessing maternal, environmental and ...

Risk for caries includes factors such as high numbers of cariogenic bacteria, high frequency sugar consumption, inadequate salivary flow, insufficient fluoride exposure, poor oral hygiene, and poverty.

Dental Caries - an overview | ScienceDirect Topics

The striking results of the study, published in the International Journal of Environmental Research and Public Health, underscore the necessity of updating current knowledge on the oral microbial community and its role in the development of dental caries. But Dr. Uchida highlights limitations in the study's applicability and advises taking ...

Scientists sink teeth into identifying several new ...

Dental caries is a dynamic process that occurs when demineralization of dental hard tissues, triggered by a sugar-driven dysbiosis of the dental plaque microbiome, overwhelms remineralization by protective factors in the mouth. 4 Initial demineralization of tooth enamel is often subclinical but can lead to the development of carious lesions, which range from incipient areas of increased enamel opacity and porosity to frank cavitation.

Genetic and Early-Life Environmental Influences on Dental ...

Apart from the biological factors involved in the dental caries process described above, environmental, behavioral, and socio-economic determinants also play crucial roles in the process of caries development, both at the individual and population level. 1 Early Childhood Caries (ECC)

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Several dietary factors have been considered to act pre-eruptively, affecting the caries-susceptibility of the forming tooth, but only fluoride has been shown to have any distinct effect. The post-eruptive influence of diet is very much more important than any pre-eruptive effect, and sugar is by far the most cariogenic dietary item.

Current issues concerning the relationship between diet ...

Dental caries is a multifactorial infectious disease, endemic worldwide, and the most common chronic childhood disease¹ U.S. Department of Health and Human Services. Oral health in America: A report of the Surgeon General, Executive summary. Rockville, MD: National Institutes of Health, National Institute of Dental and Craniofacial Research. 2000..

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