

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 ...

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 assessed in 575 unrelated children (mean age 5.2 years).

Genetic and environmental factors associated with dental ...

After adjusting for potential confounders, lack of community water fluoridation, hypomineralized second primary molars, dichorionic placenta, and maternal obesity were associated with caries. CONCLUSIONS: Environmental rather than genetic factors drive dental caries risk and arise as early as prenatal life.

Genetic and Early-Life Environmental Influences on 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 ...

It was concluded that both genetics and environmental factors contribute to the development of dental caries in a complex manner, with the environment and interplay of genes determining the nature of the tooth surface, salivary constituents, and the immune response.

The Bacteria Responsible for Dental Caries: Genetics ...

Introduction: Dental caries are highly prevalent among children and have negative health consequences. Their occurrence may depend in part on school-based environmental or policy-related factors, but few researchers have explored this subject.

Oral Health-Promoting School Environments and Dental ...

Susceptible tooth surfaces for caries are deep & narrow occlusal fissures, deep buccal or lingual pits, exposed root surfaces, gingival to contact areas & margins of existing restoration. Teeth with developmental defects and malocclusion also favors its initiation.

Dental Caries; Risk Factor, Prevention And Treatment ...

The role of genetic and environmental factors on dental caries progression in young children was determined. A detailed caries assessment was performed in 2 examinations on 314 pairs of twins initially 1.5 to 8 years old. Surface-based caries prevalence rates (SBCPR) and lesion severity (LSI) were computed.

Longitudinal Analysis of Heritability for Dental Caries Traits

Dental Caries Is multifactorial because its development is dependent on the interaction of the four primary factors (Host, Substrate, Presence of Bacteria and Time) Host, Substrate, Presence of Bacteria and Time

Contributing Factors to the Development of Dental Caries ...

Dental school curricula traditionally focus on environmental factors, such as the oral biofilm and specific bacterial species (e.g., *Streptococcus mutans* and *Lactobacillus*), fluoride exposure, and diet when reviewing caries etiology. 4,5

Genetic Determinants of Risk and Resistance to Dental Caries

However, if the demineralization environment is reduced or eliminated, white spot lesions may remineralize and not progress. 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

Dental caries result when plaque forms on the surface of a tooth and converts the free sugars (all sugars added to foods by the manufacturer, cook, or consumer, plus sugars naturally present in honey, syrups, and fruit juices) contained in foods and drinks into acids that destroy the tooth over time.

Oral health

The two conditions are thought to share common contributing factors, including biological, genetic, socioeconomic, cultural, dietary, environmental, and lifestyle factors [5. K. A. Spiegel and C. A. Palmer, "Childhood dental caries and childhood obesity.

Association between Dental Caries and Obesity in Children ...

Several modifying risk and protective factors influence the dental caries process, as will be discussed later in this chapter. Fig. 2-1 Modified Keyes-Jordan diagram. As a simplified description, dental caries is a result of the interaction of cariogenic oral flora (biofilm) with fermentable dietary carbohydrates on the tooth surface (host) over time.

2: Dental Caries: Etiology, Clinical Characteristics, Risk ...

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.

Colgate Oral Health Network - Free Dental Continuing Education

The post-genomic era will present many opportunities for improvement in oral health care but will also present a multitude of challenges. We can

conclude from the literature that genes have a role to play in dental caries; however, both environmental and genetic factors have been implicated in the aetiology of caries.

Genetic factors affecting dental caries risk - Opal - 2015 ...

North America dominated the market in 2019 owing to increasing demand for new technologies, a large pool of key players, rising prevalence of dental disorders, and advanced healthcare ...

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