

Enamel Apatite Solubility Investigations Into The Calcium Phosphate Equilibrium Between Enamel And Saliva And

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Enamel Apatite Solubility Investigations Into

Enamel-Apatite Solubility: Investigations Into the Calcium Phosphate Equilibrium Between Enamel and Saliva and Its Relation to Dental Caries Paperback – January 1, 1949 by Yngve Ericsson (Author)

Enamel-Apatite Solubility: Investigations Into the Calcium ...

Ericsson Y. Enamel-apatite solubility. Investigations into the calcium phosphate equilibrium between enamel and saliva and its relation to dental caries. Acta Odontologica Scandinavia. 1949; 8 (supplement 3):1-139.

Gastroesophageal Reflux Disease and Tooth Erosion

Abstract A method is described to investigate the rate of enamel solubility in acid buffer in vitro using atomic absorption spectrophotometry. The effect of various ions thought to influence enamel solubility has been studied, and of these, only vanadium reduced the solubility rate, whereas both molybdenum and selenium caused an increase.

Studies on the effects of various ions on enamel solubility

Ericsson Y. Enamel-apatite solubility. Investigations into the calcium phosphate equilibrium between enamel and saliva and its relation to dental caries. Acta Odontol Scand. 1949;8(Suppl 3):1-139. Barron RP, Carmichael RP, Marcon MA, Sándor GK. Dental erosion in gastroesophageal reflux disease. J Can Dent Assoc. 2003;69:84-89.

Strategies for Managing Erosive Tooth Wear - Dimensions of ...

"Enamel-Apatite Solubility Investigations into the Calcium Phosphate Equilibrium between Enamel and Saliva and Its Relation to Dental Caries." Acta Odont. Scand. , 8 , Suppl. 3.

A mathematical theory of enamel solubility and the onset ...

Apparent solubility distributions of hydroxyapatite and enamel apatite

(PDF) Apparent solubility distributions of hydroxyapatite ...

Ericsson Y. Enamel-apatite solubility. Investigations into the calcium phosphate equilibrium between enamel and saliva and its relation to dental caries. Acta Odontol Scand. 1949;8(Suppl 3):1-139. Barron RP, Carmichael RP, Marcon MA, Sándor GK. Dental erosion in gastroesophageal reflux disease. J Can Dent Assoc. 2003;69:84-89.

Erosive Tooth Wear: Etiology, Diagnosis, Risk Factors and ...

It is also known that fluoride ions can substitute hydroxyl groups in enamel apatite, resulting in the formation of FA or FHA. As mentioned, this mineral is characterized by a greater resistance to acidic substances, lower solubility and greater hardness than HA (Figure 5), while retaining similar biocompatibility [21,24,59,60]. As a result ...

Hydroxyapatite and Fluorapatite in Conservative Dentistry ...

Enamel-apatite solubility: Investigations into the calcium phosphate equi- librium between enamel and saliva and its relation to dental caries. Acta odont. scand. Suppl. 3 8, 5-139.

Effects of calcium, phosphate and fluoride ions on the ...

First, substituted hydroxyapatite, the main componentof dental enamel, can behave in a very complex manner duringdissolution. This is duenotonlyto its ability to accept substituent ions butalsoto thewide range of calcium phosphate species which can form following dissolution.

THE OF ENAMEL CARIES - Semantic Scholar

5. Ericsson Y. Enamel-apatite solubility. Investigations into the calcium phosphate equilibrium between enamel and saliva and its relation to dental caries. Acta Odont Scand 1949; 8(Suppl 3):1-139. 6. Majeed A, Grobler SR, Moola MH. The pH of various tooth-whitening products on the South African market. SADJ. 2011;66(6):278-281. 7.

Help Your Patients Avoid Erosive Effects of Tooth ...

III. Ericsson Y. Enamel-apatite solubility. Investigations into the calcium phosphate equilibrium between enamel and saliva and its relation to dental caries. Acta Odont Scand 1949; 8(Suppl 3):1-139.

How the pH of Popular Beverages Can Affect Patient Enamel ...

As the mineral phase of tooth enamel consists of apatite containing fluoride, the "CaF2-like" salts are of significant interest in dentistry for their roles as labile fluoride reservoirs in ...

(PDF) Synthesis and Solubility of Calcium Fluoride/Hydroxy ...

On the other hand, the remineralization produced by carbonate-hydroxyapatite consists in a deposition of a new apatitic mineral into the eroded enamel surface scratches. A new biomimetic mineral coating, which progressively fills and shadows surface scratches, covers and safeguards the enamel structure by contrasting the acid and bacteria attacks.

Surface Enamel Remineralization: Biomimetic Apatite ...

Techniques used for estimating the mineral content (and hence porosity) of enamel include quantitative microradiography and measurements of enamel density. Both methods require a knowledge of the density of the apatite crystals of enamel, and in the past it has been assumed that they have the same density as hydroxyapatite (3.15 g/ml).

Enamel microporosity and its functional implications ...

For the purpose of erosion prevention the present study aimed to compare the efficacy of two biomimetic products and a fluoride solution to optimize the protective properties of the pellicle. After 1 min of<i> in situ</i> pellicle formation on bovine enamel slabs, 8 subjects adopted CPP-ACP (GC Tooth Mousse), a mouthwash with hydroxyapatite microclusters (Biorepair), or a fluoride based ...

Influence of Calcium Phosphate and Apatite Containing ...

The purpose of this investigation was to examine the heretofore not considered hypothesis that carbonated apatite (CAP) preparations exhibit the phenomenon) of metastable equilibrium solubility (MES).

Effect of Fluoride Pretreatment on the Solubility of ...

Enamel formation is a complex process involving cellular proliferation and differentiation through the sequential epithelial-mesenchymal interactions, secretion of the tissue-specific matrix proteins, transport of the ions including calcium and fluoride, and precipitation and alignment of enamel crystals through the multiple interactions between organic and inorganic molecules (Fig. 1).

Dental Fluorosis: Chemistry and Biology - T. Aoba, O ...

Once fluoride is incorporated into the enamel mineral, the ion likely affects the subsequent mineralization process by reducing the solubility of the mineral and thereby modulating the ionic composition in the fluid surrounding the mineral, and enhancing the matrix protein-mineral interaction.

The Effect of Fluoride On Apatite Structure and Growth - T ...

Of the inorganic constituents different from calcium and phosphorus, carbonate in the enamel fluid seems to be high enough to affect the mineralization process during amelogenesis. Carbonate is incorp...

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