In situ remineralisation of enamel and dentine after the use of amine fluoride dentifrice and amine fluoride mouthrinse.

Published: 28-04-2008 Last updated: 11-05-2024

The goal of this research is to see whether offering fluoride three times a day enhances the remineralisation of an early cariouslesion more than fluoride twice a day.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Other condition
Study type	Interventional

Summary

ID

NL-OMON32230

Source ToetsingOnline

Brief title In situ remineralisation of enamel and dentine.

Condition

Other condition

Synonym cavity, toothdecay

Health condition

caries

Research involving Human

Sponsors and support

Primary sponsor: GABA Benelux Source(s) of monetary or material Support: bedrijf

Intervention

Keyword: caries, fluoride, mouthrinse, remineralisation

Outcome measures

Primary outcome

mineralisation of enamel/dentine

difference in fluorescence

level of fluoride in enamel/dentine

Secondary outcome

amount of fluoride of dental plaque and saliva

Study description

Background summary

To patients that are at high risk of getting caries, dentists often reccomend an extra period of fluoride exposure a day, besides the usual brushing of the teeth with a fluoride dentifrice twice a day. It was already demonstrated that the surface of a tooth contains more fluoride after additionally rinsing with a fluoride mouthrinse. It is not shown that it as well enhances the remineralisation of an early cariouslesion. We will investigate that in this study.

Study objective

The goal of this research is to see whether offering fluoride three times a day enhances the remineralisation of an early cariouslesion more than fluoride twice a day.

Study design

In the buccal flanges of the partial prosthesis in the lower jaw of the

2 - In situ remineralisation of enamel and dentine after the use of amine fluoride d ... 5-05-2025

participants, specimens of enamel or dentine will be placed. On the specimens an early carious lesion is made. The participants need to follow an oral hygiene protocol that says they have to brush twice a day with fluoride toothpaste and rinse with a fluoride- or a control mouthrinse. After the experimental period the specimens will be removed from the prosthesis an analysed for the mineral content. Besides this, samples of saliva and plaque will be taken to analyse the amount of fluoride.

Intervention

Participants brush there teeth twice a day with a fluoride dentifrice and additionally rinse with a fluoride- or control mouthrinse once a day.

Study burden and risks

The burden is the extra visits to the clinic and executing the oral hygiene protocol (which people normally already execute for most part). Participating means no health risks for the participants.

Contacts

Public GABA Benelux

Leeuwenveldseweg 5N 1382 LV Weesp Nederland **Scientific** GABA Benelux

Leeuwenveldseweg 5N 1382 LV Weesp Nederland

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

partial prosthesis on the lower jaw enough thickness of the resin of the prosthesis age > 18 years

Exclusion criteria

not enough thickness of the resin of the prosthesis not being able to deal with the oral hygiene protocol no partial prosthesis in the lower jaw age < 18

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	Placebo
Primary purpose:	Prevention

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	13-03-2008
Enrollment:	14
Туре:	Actual

4 - In situ remineralisation of enamel and dentine after the use of amine fluoride d ... 5-05-2025

Ethics review

Approved WMO 28-04-2008 Date: Application type: Review commission:

First submission **METC Amsterdam UMC**

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register ССМО

ID NL19894.029.07