A pilot study to assess the level of gum tissue micro abrasion after the use of manual toothbrushes with a different leven of end-rounded filaments

Published: 24-05-2012 Last updated: 15-05-2024

The objective of this pilot study is to assess the effect of filament endrounding quality on gingival abrasion.

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

Summary

ID

NL-OMON37050

Source ToetsingOnline

Brief title End-Rounding and Brush Abrasion (ERBA)

Condition

Other condition

Synonym Gingival abrasion

Health condition

Kleine tandvleesbeschadigingen

Research involving

Human

1 - A pilot study to assess the level of gum tissue micro abrasion after the use of ... 4-05-2025

Sponsors and support

Primary sponsor: ACTA Dental Research B.V. **Source(s) of monetary or material Support:** Procter& Gamble Company Cincinnati;Ohia USA,Procter&Gamble Company Cincinnati, Ohia USA

Intervention

Keyword: End- rounded filaments, Gingival abrasion, Manual toothbrushes

Outcome measures

Primary outcome

The primary outcome is Gigival Abrasion Score (Danser et al. 1998).

Secondary outcome

Not applicable

Study description

Background summary

The mechanical control of supragingival plaque by daily toothbrushing is an essential element in effective oral hygiene and most commonly practised. However, as a result of toothbrushing some people may traumatize the gingival tissues due to improper brushing techniques, hard bristle filaments or improper end-rounded filament ends.

Study objective

The objective of this pilot study is to assess the effect of filament endrounding quality on gingival abrasion.

Study design

This is a randomized, double-blind, replicate-use, split-mouth brushing excercise, three period crossover study design with professional brushing.

Intervention

First for each leg of the cross-over by type of end-rounded bristle (group A, B, or C) secondly assignment by brush type to professional brushing in 2

2 - A pilot study to assess the level of gum tissue micro abrasion after the use of \ldots 4-05-2025

contra-lateral (1st and 3rd or 2nd and 4th) quadrants. Every visit the Abrasion is measured by the examiner. The dental hygienist will brush with two different brushes, contra lateral (1st and 3rd or 2nd and 4th quadrant), finally the abrasion is measured.

Group A= 0% end-rounded Oral- B indicator Group B= 40- 50% end-rounded Oral- B indicator Group C= 90 % end-rounded Oral- B indicator

Study burden and risks

There are no risks.

Contacts

Public ACTA Dental Research B.V.

Gustav Mahlerlaan 3004 1081 LA Amsterdam NL Scientific ACTA Dental Research B.V.

Gustav Mahlerlaan 3004 1081 LA Amsterdam NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

* * 18 years * Be in general good physical and oral health, as determined by the investigator/designee * Agree not to participate in any other oral/dental products clinical study for the study duration * Agree to refrain from the use of any non-study dentifrice or other oral hygiene products for the study duration * Have a minimum of 5 evaluable teeth per quadrant * Not have visual oral lesions

Exclusion criteria

* Self-reporting of pregnancy or nursing (women only) * Show evidence of periodontitis or within an active treatment for periodontal disease * Show evidence of carious lesions requiring immediate treatment * Having taken antibiotics within 2 weeks before the first treatment period or anticipation of taking antibiotics during the course of the study * Have orthodontic appliances or removable partial dentures * oral piercings * Show evidence of any disease or conditions that could be expected to interfere with examination or outcomes of the study

Study design

Design

Study phase:	4
Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	Active
Primary purpose:	Prevention

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	12-06-2012
Enrollment:	48
Туре:	Actual

Ethics review

Approved WMO 24-05-2012 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

ID: 27118 Source: NTR Title:

In other registers

Register ID CCMO NL40530.018.12 OMON **NL-OMON27118**