Is there a difference in pain perception between ultrasonic scalers?

No registrations found.

Ethical review	Positive opinion
Status	Pending
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON23174

Source
NTR

Health condition

Ultrasonic scalers, EMS, Satelec, Symmetry, periodontal maintenance, supportive periodontal therapy, pain perception

Sponsors and support

Primary sponsor: ACTA Amsterdam
Source(s) of monetary or material Support: HU-Friedy

Intervention

Outcome measures

Primary outcome

1. Pain;

2. Visual Analogue Scale.

Secondary outcome

1. Comfort;

2. Visual Analogue Scale.

Study description

Background summary

The standard non-surgical treatment for periodontal disease is supra- and subgingival scaling to disrupt and thoroughly remove biofilm, calculus deposits, periodontal pathogens, and debris. Supra- and subgingival scaling can be performed with hand instruments or with power scalers. A less painful treatment might increase patient compliance and may give a better prognosis for periodontal therapy.

The purpose of the study is to document pain perception on a visual analogue scale (VAS) during supportive periodontal therapy with hand instruments and three different power scalers. In order to investigate which method is of most comfort for the patient.

Study objective

Patients will prefer power scalers over hand instruments.

Study design

After each quadrant.

Intervention

Using 3 power devices en manual cleaning. Each device will be used in one quadrant (randomly assigned). After each quadrant the patient will fill out a pain scale (VAS).

Research group:

There will be a group of 100 selected patients which reveive SOT (supportive periodontal therapy).

Clinical procedures:

Each patient will be treated with hand instruments and 3 power scalers during SOT. Each method will be used in 1 quadrant, this will be randomly assigned. Order of treatment of the

teeth will be Q1 (quadrant), subsequently Q2, Q3, Q4.

Randomization:

The study is designed as a prospective single session, randomized cross-over clinical trial. 100 subjects will be treated with 4 different methods during SOT. Order of the methods will be randomly assigned.

Lost to follow-up:

With respect to possibility of drop out, the short study period does not have a serious risk of a considerable number of subject that may be lost to follow-up.

Contacts

Public
Gustav Mahlerlaan 3004
Vrije Universiteit Amsterdam
Academisch Centrum Tandheelkunde Amsterdam
Armin Soltanpour
Amsterdam 1081
The Netherlands
+31 (0)6 83574294
Scientific
Gustav Mahlerlaan 3004
Vrije Universiteit Amsterdam
Academisch Centrum Tandheelkunde Amsterdam
Armin Soltanpour
Amsterdam 1081
The Netherlands
+31 (0)6 83574294

Eligibility criteria

Inclusion criteria

1. Supportive periodontal therapy patient;

2. ≥ 18 years;

3. ≥ 5 teeth each quadrant;

4. Probing pocket depths ≤ 6 mm;

5. ASA I / ASA II (American Society of Anesthesiologists).

Exclusion criteria

1. Dental implants;

2. Fixed orthodontic device;

3. Artificial cardiac pacemaker.

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-01-2013
Enrollment:	100
Type:	Anticipated

Ethics review

Positive opinion

Date:	06-11-2012
Application type:	First submission

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	ID
NTR-new	NL3538
NTR-old	NTR3693
Other	METc VUmc : 12/264
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results
N/A