How to treat peri-implantitis?

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON21821

Source
NTR

Health condition

Peri-implantitis

Sponsors and support

Primary sponsor: University Medical Center Groningen
Source(s) of monetary or material Support: fund = initiator = sponsor

Intervention

Outcome measures

Primary outcome

Percentage of sites with bleeding on probing (% sites BoP) was used as primary clinical outcome variable

Secondary outcome

Secondary clinical outcome variables were presence of plaque (% sites plaque), suppuration on probing (% sites SoP), mean PPD and radio-graphical marginal bone loss at baseline. Next to this microbiolical parameters were recorded.

Study description

Background summary

An effective intervention protocol for treatment of peri-implantitis is not yet available. The objective of this randomized, double-blinded controlled clinical trial was to assess the clinical, microbiological and radiographical effect of decontamination of the implant surface during surgical treatment of peri-implantitis using 35% phosphoric acid or sterile saline.

Study objective

Decontamination of the implant surface with 35% phosphoric acid during the surgical treatment of peri-implantitis does result in better clinical and microbiological outcome compared to sterile saline

Study design

- Baseline

- After 3 months

- After 12 months

Intervention

Peri-implant lesions were treated with resective surgical treatment consisting of apically repositioned flap, bone recontouring and surface debridement and decontamination. After mechanically cleaning, the implant surfaces were treated with 35% phosphoric etching gel

Contacts

Public
University Medical Center Groningen (UMCG)
Department of Oral Sugery
P.O. Box 30001
G.M. Raghoebar
Groningen 9700 RB
The Netherlands
+31(0)50 3613186
Scientific
University Medical Center Groningen (UMCG)
Department of Oral Sugery
P.O. Box 30001

G.M. Raghoebar
Groningen 9700 RB
The Netherlands
+31(0)50 3613186

Eligibility criteria

Inclusion criteria

Inclusion criteria were:

•≥ 18 years of age;

•at least one endosseous implant with clinical and radiographical signs of peri-implantitis;

•implants were in function for at least two years;

•capable of understanding and providing informed consent.

Exclusion criteria

•Contraindications for the surgical procedures;

•A history of local radiotherapy to the head and neck region;

•Pregnancy and lactation;

•Insuline-dependent diabetes;

•Systemic use of antibiotics during the last 3 months;

•Long-term use of anti-inflammatory drugs;

•Incapability of performing basal oral hygiene measures as a result of physical or mental disorders;

•Uncontrolled periodontitis (PPD > 5mm);

•Implants placed in skin grafted areas;

•Implants with bone loss due to other reasons than bacterial infection (e.g. loose screw, inadequate positioning of the implant);

•Implants with bone loss exceeding 2/3 of the length of the implant or implants with bone loss beyond the transverse openings in hollow implants;

•Implant mobility;

•Implants at which no position can be identified where proper probing measurements can be performed;

•Previous surgical treatment of the peri-implantitis lesions.

Study design

Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Single blinded (masking used)
Control:	Placebo

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	01-09-2013
Enrollment:	27
Type:	Actual

Ethics review

Positive opinion

Date:	02-06-2015
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	NL5046
NTR-old	NTR5185
Other	University Medical Center Groningen : METc2013.005

Study results

Summary results
Publications:
de Waal YC, Raghoebar GM, Huddleston Slater JJ, Meijer HJ, Winkel EG, van Winkelhoff AJ. Implant decontamination during surgical peri-implantitis treatment: a randomized, double-blind, placebo-controlled trial. J Clin Periodontol. 2013;40:186-195.