

Zirconia in permucosal applications: aesthetic, biological and microbiological aspects; a pilot study.

Published: 09-01-2007

Last updated: 10-08-2024

This study aims to investigate the reaction of the peri-implant tissues to these materials when used in oral implant dentistry.

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

Summary

ID

NL-OMON30150

Source

ToetsingOnline

Brief title

Zirconia in permucosal applications; a pilot study

Condition

- Other condition
- Dental and gingival conditions

Synonym

The response of mucosa to zirconium

Health condition

Esthetisch en functioneel herstel in de (gedeeltelijk) tandeloze kaak

Research involving

Human

Sponsors and support

Primary sponsor: Universitair Medisch Centrum Utrecht

Source(s) of monetary or material Support: Ministerie van OC&W, Astra Zeneca

Intervention

Keyword: dental implant, peri-implant mucosa, Zirconia

Outcome measures

Primary outcome

The primary endpoint of the study is our preference for titanium or zirconium based on the number of inflammatory cells in the soft tissues adjacent to both materials.

Secondary outcome

Furthermore, the peri-implant mucosa around both abutments is investigated visually, biologically and microbiologically.

Study description

Background summary

Little is known about the reaction of the perimucosal tissues to zirconium and titanium.

Study objective

This study aims to investigate the reaction of the peri-implant tissues to these materials when used in oral implant dentistry.

Study design

Twenty edentulous subjects receive 2 implants in the interforaminal region of the mandible. In a split mouth study design, one implant is provided with a zirconium and the other with a titanium abutment.

Intervention

not applicable

Study burden and risks

We feel that there is no extra burden or risk concerned when compared to our common and standard treatment protocol in these patients.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

Fully edentulous patients with functional lower denture problems and a minimal height of the mandible in the midline of 13 mm. Patients' health allows a oral surgical intervention under local anesthesia.

Exclusion criteria

ASA score 3 or more or when implant-supported overdenture (bar-clip with distal extensions) treatment is indicated.

Study design

Design

Study phase:	4
Study type:	Interventional
Intervention model:	Parallel
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Treatment

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	30-11-2007
Enrollment:	20
Type:	Actual

Ethics review

Approved WMO	
Date:	09-01-2007
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Utrecht (Utrecht)

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
CCMO	NL11687.041.06