Single implant restorations with a cantilever in the (pre)molar region: a prospective case-series study after a 3 year observation period

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The single implant-supported two-unit cantilever restorations in the posterior regio will be a favourable in selected cases, regarding clinical and patient-based outcome measures

Ethische beoordeling	Niet van toepassing
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON26100

Bron
NTR

Verkorte titel
Cantilever bridge on one implant

Aandoening

Missing (pre-) molars in the lateral part of the maxilla or mandible and a compromised oral function as a consequence.

Ondersteuning

Primaire sponsor: Oral Recontruction Foundation
Overige ondersteuning: Oral Reconstruction Foundation (ORF42110)

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Primary outcome parameter
The primary outcome variable is the mean marginal bone loss, for which the Marginal Bone Levels (MBL) between placement of the restoration (T0) and after 3 years (T3) are determined from standardized, long cone intraoral radiographs, by measuring from the edge of the implant to the bone-to-implant contact, both mesially and distally.

Toelichting onderzoek

Achtergrond van het onderzoek

The aim of this prospective case-series study is to evaluate and document the clinical performance, complications and patient-reported outcomes of single implant-supported two-unit cantilever restorations in the posterior region. A total of 20 consecutive patients will be treated with a single implant in the (pre-) molar region. After an osseointegration period of 3 months a single crown with a mesial cantilever is provided. All data will be collected beforehand, after providing the restoration and yearly during a follow-up period of 3 years.

Doel van het onderzoek

The single implant-supported two-unit cantilever restorations in the posterior regio will be a favourable in selected cases, regarding clinical and patient-based outcome measures

Onderzoeksopzet

Tbaseline
T 1 year result
T 3 year result

Onderzoeksproduct en/of interventie

mplant placement
Implant treatment consists of the placement of a single implant (Conelog Progressive-Line, Promote Plus 4.3mm with a minimal length of 11mm, Camlog Biotechnologies GmbH, Basel, Switzerland) under local anesthesia. Implant placement will be conducted in accordance with the manufacturers' recommendations and is based on a digital planning and drill guide. It is performed by two experienced implant specialists. A protocol for antibiotic prophylaxis consisting of amoxicillin (2 grams, intraorally, 1 hour prior to surgery) and a mouth rinse (for two weeks, 0.2% Chlorhexidine, 2 times a day, starting 1 day prior to surgery) will be followed. A cover screw will be placed and de wound will be closed primarily for an

uncompromised healing.

Restorative procedure
After a minimum of 3 month the implant is uncovered and a healing abutment is placed. Restorative treatment commences a week after uncovering the implant. A digital impression is made. A screw retained crown luted to an individual titanium abutment and with a cantilever is provided according to standard restorative procedures. Occlusion is checked meticulously and oral hygiene instruction is provided. Recall visits are scheduled.

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Inclusion criteria
- Patients older the 18 years old, in good physical, mental and periodontal health;
- A diastema in the premolar of molar area of the maxilla or mandible between 10-16 mm wide (2 premolars);
- Ample bone volume and height to place a single implant of at least 4.1 mm in diameter and 8 mm in length at the posterior end of the diastema;
- Natural teeth as antagonist.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Exclusion criteria
- Radiotherapy involving the implant area;
- Current smoking habit that exceeds 5 cigarettes a day;
- Evidence of bruxism or other parafunctional habits.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	09-10-2021
Aantal proefpersonen:	20
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Niet van toepassing

Soort:	Niet van toepassing

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL9800
Ander register	METc UMCG : METc 2021/613

Resultaten