Immediate loading of single tooth implants in the posterior maxilla and mandible: a one-year randomized controlled trial

Gepubliceerd: 28-08-2020 Laatst bijgewerkt: 13-12-2022

There is no difference in radiographic parameters of immediate loading and delayed loading of single posterior tooth implants in healed sites.

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

Samenvatting

ID

NL-OMON21508

Bron
NTR

Verkorte titel
Immediate loading of posterior single tooth implants

Aandoening

Missing teeth

Ondersteuning

Primaire sponsor: UMCG
Overige ondersteuning: ZonMW, Boeringstichting, Denstply Sirona Implants

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

• Change in peri-implant marginal bone level.

Toelichting onderzoek

Achtergrond van het onderzoek

Rationale: Implant-supported single restorations show good long-term radiographical and clinical results after delayed loading. Implant loading protocols are shifting towards immediate loading. While delayed loading requires a non-functional healing period of at least 3 months after implant placement, immediate loading consists of placing a restoration directly after implant placement. 5-year results comparing delayed and immediate loading protocols in the anterior region show similar results. However, outcomes of immediate loading in healed posterior implant sites are scarce. Objective: The primary objective is to compare radiographical parameters of immediate loading with delayed loading of single posterior tooth implants. Secondary objectives are clinical outcomes and satisfaction. Study design: The study is designed as a randomized controlled trial. Study population: Adult patients with a missing molar in the maxilla or mandible are included in this study. Intervention: All participants will receive a dental implant in the posterior maxilla or mandible. The test group will receive immediate loading with a non-occluding temporary restoration, while the control group will receive delayed loading after a 3 months healing period. Both groups will receive a definitive zirconia restoration 3 months after implant placement. The follow-up consists of radiographical and clinical evaluation, 1 and 12 months after placing the final restoration.

Doel van het onderzoek

There is no difference in radiographic parameters of immediate loading and delayed loading of single posterior tooth implants in healed sites.

Onderzoeksopzet

T1: 1 month after placement of the final restoration, T12: 12 months after placement of the final restoration.

Onderzoeksproduct en/of interventie

Test group: immediate loading. Control group: delayed loading.

Contactpersonen

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

• One missing tooth (for at least 3 months), being a first or second molar in the maxilla or mandible;
• Sufficient healthy and vital bone to insert a dental implant with a diameter of 4.2 mm and a length of at least 8 mm;
• The implant site must be free from infection;
• Adequate oral hygiene (modified plaque index and modified sulcus bleeding index);
• Sufficient mesio-distal, bucco-lingual, and interocclusal space for placement of an anatomic restoration;
• The patient is capable of understanding and giving informed consent.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

• Medical and general contraindications for the surgical procedures;
• Presence of an active and uncontrolled periodontal disease;
• Bruxism;
• Currently has smoking habits, or stopped smoking less than 3 months ago;
• A history of local radiotherapy to the head and neck region.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blindering:	Enkelblind
Controle:	Geneesmiddel

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-08-2020
Aantal proefpersonen:	60
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Ja

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	NL8893
Ander register	METc UMCG : METc 2020/671

Resultaten