

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison the effect of bone platform-switched and non platform-switched implants on marginal bone loss after 12 months of follow up in patients under implant treatment: A randomized clinical trial

Protocol summary

Summary

The aim of the study: Comparison the effect of bone platform-switched and non platform-switched implants placed in patients who need implant treatment on marginal bone loss after 12 months of follow up Design: A unicentral randomize clinical trial. Sample size: A number of 25 non platform-switched implants will be examined as a control group and the same number of platform-switched implants will be assessed as a test group. Inclusion criteria: patients who need implant treatment in premolar and molar regions and also have the essential systemic and local conditions for the implant placement surgery will be registered in the study. Exclusion criteria: Patients who are unwilling to continue the study will be excluded. Intervention: Bone level implant placement. Outcome: Determination of the amount of marginal bone loss, 12 month after the implant placements. After an 8-week healing period the implant supported crown will be formed. During the follow-up period, 12 months after implant placements, a periapical digital radiography will be recorded from both the test and the control groups and the amount of crestal bone loss will be measured and will be compared between groups. All implants will be of the same brand with the same surface texture.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201204029358N1**
Registration date: **2012-11-02, 1391/08/12**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-11-02, 1391/08/12

Registrant information

Name

Amirreza Rokn

Name of organization / entity

Dental Implant Research Center, Tehran University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Granted by Tehran University of Medical Sciences.

Expected recruitment start date

2012-10-27, 1391/08/06

Expected recruitment end date

2013-01-19, 1391/10/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of bone platform-switched and non platform-switched implants on marginal bone loss after 12 months of follow up in patients under implant treatment: A randomized clinical trial

Public title

The effect of bone platform switched implants on marginal bone loss

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients who need implant treatment in premolar and molar regions and also have the essential systemic and local conditions for the implant placement surgery will be registered in this study. Exclusion criteria: Patients who are unwilling to continue the study will be excluded.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tehran University of Medical Sciences

Street address

Ghods building, Bolvar Keshavarz Ave.

City

Tehran

Postal code

Approval date

2012-10-06, 1391/07/15

Ethics committee reference number

63883

Health conditions studied

1

Description of health condition studied

Other disorders of teeth and supporting structures

ICD-10 code

K08.2

ICD-10 code description

Atrophy of edentulous alveolar ridge

Primary outcomes

1

Description

Marginal bone loss

Timepoint

12 month after the intervention

Method of measurement

Periapical digital radiography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention: Application of platform switching technique for implant treatment in premolar and molar regions of the mouth. In this group Noble active implants will be applied.

Category

Treatment - Other

2

Description

Control: Application of non-platform switching technique for implant treatment in premolar and molar regions of the mouth. In this group Noble Biocare Replace Select Groovy implants will be applied

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Implant ward of dental school, Tehran University of Medical Sciences

Full name of responsible person

Amirreza Rokn

Street address

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran university of medical Sciences

Full name of responsible person

Akbar Fotouhi

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Ghods building, Bolvar Keshavarz Ave.

City
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Grant name

Grant code / Reference number
91-01-104-17105

Is the source of funding the same sponsor organization/entity?
Yes

Title of funding source
Tehran university of medical Sciences

Proportion provided by this source
100

Public or private sector
empty

Domestic or foreign origin
empty

Category of foreign source of funding
empty

Country of origin

Type of organization providing the funding
empty

Person responsible for general inquiries

Contact

Name of organization / entity
Dental Implant Research Center, Tehran University of Medical Sciences

Full name of responsible person
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Position
Dentist

Other areas of specialty/work

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty

Study Protocol
empty

Statistical Analysis Plan
empty

Informed Consent Form
empty

Clinical Study Report
empty

Analytic Code
empty

Data Dictionary
empty