Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparison of Crestal bone loss and Implant stability between Dio and Dentis Implants

Protocol summary

Summary

The purpose of this study is to compare implant stability and crestal bone loss around implant in Dio-SM & Dentis implants from implant insertion to third month. Methods: A total of 30 implants (15 implants from each system) were placed. Dio-SM implants were placed bilaterally symmetrical or beside Dentis S-clean implants. After to connect healing abutment, implant stability was recorded by PERIOTEST and parallel standard radiography was done at baseline, the first month and third month.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013011411560N2**
Registration date: **2013-02-01, 1391/11/13**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2013-02-01, 1391/11/13

Registrant information

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Recruitment status

Recruitment complete

Funding source
Deputy of Research, Khorasgan Branch, Dental School of Azad University

Expected recruitment start date

2010-03-21, 1389/01/01

Expected recruitment end date

2012-03-20, 1391/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Crestal bone loss and Implant stability between Dio and Dentis Implants

Public title

Comparison of Crestal bone loss and Implant stability between Dio and Dentis Implants

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: age 65-20 years; 25% or less plaque before surgery; two adjacent edentulous area or bilaterally symmetrical, with identical conditions to put implants with same length and diameter (± 0.2) in a patient; good bone height and width. Exclusion criteria: presence of systemic disease; smoking; infection with other types of periodontitis except chronic periodontitis, implant placement in fresh socket; additional surgeries such as bone grafting.

Age

From **20 years** old to **65 years** old

Gender

Both

Phase

2-3

Groups that have been masked
No information
Sample size
Target sample size: **30**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Single blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of the Medical Sciences, khorasegan part, Islamic Azad University
Street address
University Boulevard, Arghavanieh, East J Street
City
Esfahan
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81551-39998
Approval date
2010-09-23, 1389/07/01
Ethics committee reference number
1207549

Health conditions studied

1

Description of health condition studied
Dental Implant
ICD-10 code
Z96.5
ICD-10 code description
Presence of tooth-root and mandibular implants

Primary outcomes

1

Description
implant stability
Timepoint
base line, the first month, third month
Method of measurement
Priotest device

2

Description
crestal bone loss
Timepoint
at base line, the first month, third month
Method of measurement
standard radiography

Secondary outcomes

empty

Intervention groups

1

Description
Dio implant placement
Category
Treatment - Surgery

2

Description
Dentis implant placement
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Dental School, Khorasgan Branch, Islamic Azad University of Isfahan
Full name of responsible person
Deputy of Research
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Khorasgan Branch, Islamic Azad University of Isfahan
Full name of responsible person
Deputy of Research, Dr. Paiam Najafi
Street address
University Boulevard, Arghavanieh, East J Street
City
Isfahan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes

Title of funding source
Khorasgan Branch, Islamic Azad University of Isfahan
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

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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