

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 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

Name

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Name of organization / entity

Sina Trauma and Surgery Research Center, Tehran
University of Medical Sciences

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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

Postal code

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

Street address

University Boulevard, Arghavanieh, East J Street

City

Esfahan

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**Contact****Name of organization / entity**

khorasgan Branch, Islamic Azad University of Isfahan

Full name of responsible person

Dr. Paiam Najafi

Position

Deputy of Research

Other areas of specialty/work**Street address**

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Position

Periodontologist

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Full name of responsible person

Abdosafah Sherafati

Position

Dentist

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Web page address**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