

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 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

Tayeb Ramim

##### Name of organization / entity

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

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 6312 0000

##### Email address

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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 ( $\pm 0.2$ ) 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

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

khorasgan Branch, Islamic Azad University of Isfahan

**Full name of responsible person**

Seeid Hedayat-allah Golestaneh

**Position**

Periodontologist

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**Person responsible for updating data****Contact****Name of organization / entity**

khorasgan Branch, Islamic Azad University of Isfahan

**Full name of responsible person**

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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*