

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

Effect of Platelet-Rich Plasma on Implant Stability in Mandible

Protocol summary

Summary

This study is a single-blind controlled clinical trial. A total of 24 one-stage implants in mandible of 12 patients in a splith mouth design are placed. on all implants, gingival former were placed . both implants in each patient have the same diameter and length .one implant in each patient before insertion , (test group). Implant stability measured with periotest unit on all implanton the day of surgery and weeks 1,2,4, 6 and 8 after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201104116166N1**

Registration date: **2011-11-21, 1390/08/30**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-11-21, 1390/08/30

Registrant information

Name

Narges Fahami

Name of organization / entity

Islamic Azad University of Isfahan(Khorasgan)

Country

Iran (Islamic Republic of)

Phone

+98 31 1535 4053

Email address

n.fahami@khuisf.ac.ir

Recruitment status

Recruitment complete

Funding source

Islamic Azad University Khorasgan branch

Expected recruitment start date

2010-06-22, 1389/04/01

Expected recruitment end date

2011-04-21, 1390/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Platelet-Rich Plasma on Implant Stability in Mandible

Public title

Effect of Platelet-Rich Plasma on Implant Stability in Mandible Effect of Platelet-Rich Plasma on Implant Stability in Mandible Effect of Platelet-Rich Plasma on Implant Stability in Mandible Effect of Platelet-Rich Plasma on Implant Stability in Mandible Effect of Platelet-Rich Plasma on Implant Stability in Mandible

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria 1 - complete or partial edentulism in mandible (in the case of partial edentulous, edentulous space and the size of at least 2 teeth posterior mental foramen is located) 2 - bone height in radiogheraphy is at least 13 mm to permit to insert an implant with 11 mmlength. Exclusion criteria 1 - systemic disease such as diabetes, cardiovascular disorders, or blood problems. 2 - smoking (more than 10 cigarettes per day)

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **24**
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
khorasegan (Isfahan)Islamic Azad University
Street address
khorasegan (Isfahan)Islamic Azad University
City
Isfahan
Postal code
Approval date
2010-06-12, 1389/03/22
Ethics committee reference number
23810201891010

Health conditions studied

1

Description of health condition studied
implant insertion
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Implant stability
Timepoint
0,1,2,4,6,8 weeks
Method of measurement
With periotest unit

Secondary outcomes

empty

Intervention groups

1

Description

In intervention group, one implant in each patient is dipped with outogenous Platelet-Rich Plasma before insertion. surface of implant was dipped with Platelet-Rich Plasma for 30 seconds.

Category

Treatment - Other

2

Description

In control group, one implant in each patient was inserted without dipping in Platelet-Rich Plasma.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Dental Faculty - Islamic Azad university Khorasgan branch (Isfahan)
Full name of responsible person
Street address
City
Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Islamic Azad University Khorasgan branch
Full name of responsible person
Vahid Esfahanian
Street address
university bulv. - jay street - Isfahan
City
Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Islamic Azad University Khorasgan branch

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

Islamic Azad University khorasgan branch (Isfahan)

Full name of responsible person

Narges Fahami

Position

Periodontist

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

Number 4 - East yas Street- Ghobadi street - Ferdos
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City

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Person responsible for updating data

Contact

Name of organization / entity**Full name of responsible person**

Narges Fahami

Position**Other areas of specialty/work****Street address****City****Postal code****Phone****Fax****Email****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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Islamic Azad University Khorasgan branch (Isfahan0

Full name of responsible person

Narges Fahami

Position

Periodontist

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

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Bulv. -Tehran

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Tehran