

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jun 2026

A comparison of osteobiol gen_os with normal healing extraction socket in quality and quantity of bone formation for implant placement in partial edentulous patients

Protocol summary

Summary

The aim of this research is to evaluate a kind of bone material xenograft (ostel biol gen_os) in socket regeneration. Patients need to extract two teeth in two contra-lateral quadrant. They have not systemic disease like Diabetes, Autoimmune disorder, viral and bacterial infection. They are not smokers and their cooperation is good. This is a randomized clinical trial study. 12 cases (6 test and 6 control in 6 patients) were selected. After tooth removal the grafting material put in the socket. 3 to 4 month later during implant placement, the specimen from both sites are sent for histologic and histomorphometric evaluation.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT201202018898N1**
Registration date: **2012-07-25, 1391/05/04**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-07-25, 1391/05/04

Registrant information

Name

Mojgan Paknejad

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 8801 5801

Email address

mpaknejad@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Dental Research Center, Tehran University of Medical Science

Expected recruitment start date

2012-06-21, 1391/04/01

Expected recruitment end date

2012-08-22, 1391/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparison of osteobiol gen_os with normal healing extraction socket in quality and quantity of bone formation for implant placement in partial edentulous patients

Public title

effect of osteobiol gen_os in healin process of socket

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: presence of two hopeless teeth in two quadrant of the jaw exclusion criteria: systemic disease such as diabetes, autoimmune disorder, viral and bacterial infection; smoker; patients with poor compliance and poor oral hygiene ; metabolic disorder that affected bone

Age

From **30 years** old to **65 years** old

Gender

Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: 12

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

Faculty of Dentistry, Tehran University of Medical Science

Street address

Faculty of Dentistry, Tehran University of Medical Science, Karegar Shomali St, Hakim Hwy, Tehran, IRAN

City

Tehran

Postal code

55991_14399

Approval date

2006-12-23, 1385/10/02

Ethics committee reference number

8601694798

Health conditions studied

1

Description of health condition studied

extraction of teeth due to periodontitis

ICD-10 code

K05, K08

ICD-10 code description

k 05:Gingivitis and periodontal diseases, k 08:Other disorders of teeth and supporting structures

Primary outcomes

1

Description

percentage of regenerative bone

Timepoint

4 month after extraction

Method of measurement

estimation of bone filled surface with photoshop software

2

Description

type of regenerating bone

Timepoint

4 month after extraction

Method of measurement

light microscope

3

Description

percentage fo remaining material

Timepoint

4 month after extraction

Method of measurement

evaluation of material filled surface with photoshop software

Secondary outcomes

1

Description

bone vitality

Timepoint

4 month after extraction

Method of measurement

light microscope

2

Description

foregin body reaction

Timepoint

4 month after extraction

Method of measurement

light microscope

3

Description

inflammation

Timepoint

4 month after extraction

Method of measurement

number of inflammatory cells in high power field

Intervention groups

1

Description

putting bone graft in socket and sampling during implamentation surgery

Category

Treatment - Surgery

2

Description

control group:no intervention after extraction and sampling during implamentation surgery

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Periodontology Center, Faculty of Dentistry, Tehran University of Medical Science

Full name of responsible person

Mojgan Paknejad

Street address

Faculty of Dentistry, Tehran University of Medical Science, Karegar Shomali St, Hakim Hwy, Tehran, IRAN

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Dental Research Center, Tehran University of Medical Science

Full name of responsible person

Elahe Alamdar

Street address

Tehran University of Medical Science, Ghods St, Enghelab Ave, Tehran, Iran

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Dental Research Center, Tehran University of Medical Science

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

Faculty of Dentistry, Tehran University of Medical Science

Full name of responsible person

Mohadeseh Heidari

Position

Resident of Periodontology

Other areas of specialty/work

Street address

Faculty of Dentistry, Tehran University of Medical Science, Karegar Shomali St, Hakim Hwy, Tehran, IRAN

City

Tehran

Postal code

14399_55991

Phone

+98 21 8835 1168

Fax

Email

heidari_mohadeseh@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Faculty of Dentistry, Tehran University of Medical Science

Full name of responsible person

Mojgan Paknejad

Position

Profesor assistant, Peridontologist

Other areas of specialty/work

Street address

Faculty of Dentistry, Tehran University of Medical Science, Karegar Shomali St, Hakim Hwy, Tehran, IRAN

City

Tehran

Postal code

14399_55991

Phone

+98 88497390

Fax

Email

heidari_mohadeseh@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Faculty of Dentistry, Tehran University of Medical Science

Full name of responsible person

Mohadeseh Heidari

Position

Resident of Periodontology

Other areas of specialty/work

Street address

Faculty of Dentistry, Tehran University of Medical Science, Karegar Shomali St, Hakim Hwy, Tehran, IRAN

City

Tehran

Postal code

1439955991

Phone

+98 21 8835 1168

Fax**Email**

heidari_mohadeseh@yahoo.com

Web page address**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

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Study Protocol

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Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

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