

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

06 Jul 2026

### The effect of palatal connective tissue graft usage with and without periosteum as a membrane along with Bio-Oss in treatment of vertical alveolar bone defects

#### Protocol summary

##### Summary

Aims: Usage of palatal connective tissue graft with and without periosteum along with Bio-Oss in treatment of vertical alveolar bone defects. Study design: Randomized; Interventional; Double blind; No Placebo usage; Uni-center; Crossover. a- Study population: With age limit; no sex limit. Inclusion Criteria: Plaque Index 25% or less before surgery; teeth with mobility of Miller grade III or less; Vital teeth or nonvital teeth with proper endodontic treatment; patients with moderate to severe chronic periodontitis; radiologic approval of a pair of interdental vertical bone defects in two non-adjacent teeth; Clinical attachment loss more than 5 millimeters; defect depth must be at least 3 millimeters; intrabony two or three walls defects. Exclusion Criteria: Patients with any systemic disorders; pregnant and breast feeder patients; Systemic antibiotic usage in the last three months; abnormal platelet count in the last month before surgery; Grade III of Furcation involvement; History of periodontal surgery in the last six months. Sample size: 15 patients; 30 sites. b- Intervention/Control: Intervention: Palatal connective Tissue graft with periosteum as a membrane With Bio-oss. Control: Palatal connective Tissue graft without periosteum as a membrane With Bio-oss. Time of intervention: 6 months. Primary or under study outcome measures: Probing Pocket Depth; Clinical Attachment Level; Defect fill; Gingival margin status; Crestal bone status; amount of defect resolve.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2012101611133N1**

Registration date: **2013-01-31, 1391/11/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2013-01-31, 1391/11/12

##### Registrant information

###### Name

Mohamadreza Ghafari

###### Name of organization / entity

Islamic Azad Dental School Khorasgan Branch,  
(Isfahan), Iran

###### Country

Iran (Islamic Republic of)

###### Phone

+98 31 1535 4053

###### Email address

mr.ghafari@khuif.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Private

##### Expected recruitment start date

2012-04-03, 1391/01/15

##### Expected recruitment end date

2012-10-06, 1391/07/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of palatal connective tissue graft usage with and without periosteum as a membrane along with Bio-Oss in treatment of vertical alveolar bone defects

##### Public title

Usage of palatal connective tissue graft in treatment of vertical alveolar bone defects

## Purpose

Treatment

## Inclusion/Exclusion criteria

Inclusion Criteria: Plaque Index 25% or less before surgery; teeth with mobility of Miller grade III or less; Vital teeth or nonvital teeth with proper endodontic treatment; patients with moderate to severe chronic periodontitis; radiologic approval of a pair of interdental vertical bone defects in two non-adjacent teeth; Clinical attachment loss more than 5 millimeters; defect depth must be at least 3 millimeters; intrabony two or three walls defects. Exclusion Criteria: Patients with any systemic disorders; pregnant and breast feeder patients; Systemic antibiotic usage in the last three months; abnormal platelet count in the last month before surgery; Grade III of Furcation involvement; History of periodontal surgery in the last six months.

## Age

From **20 years** old to **70 years** old

## Gender

Both

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **30**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Double blinded

## Blinding description

## Placebo

Not used

## Assignment

Crossover

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Islamic Azad Dental School Khorasgan Branch, (Isfahan), Iran

##### Street address

Islamic Azad University Khorasgan (Isfahan) Branch, University Boulevard, Arghavanieh, Eastern Jay Street, Isfahan, Iran. Isfahan Isfahan Iran, Islamic Republic Of

##### City

Isfahan

##### Postal code

##### Approval date

2012-05-26, 1391/03/06

## Ethics committee reference number

91030609501

## Health conditions studied

### 1

#### Description of health condition studied

Chronic Periodontitis

#### ICD-10 code

K05.3

#### ICD-10 code description

Chronic periodontitis

## Primary outcomes

### 1

#### Description

Probing Pocket depth

#### Timepoint

0 and 6 months

#### Method of measurement

per millimeters by means of a UNC-15 Periodontal Probe

### 2

#### Description

Clinical Attachment Level

#### Timepoint

0 and 6 months

#### Method of measurement

per millimeters by means of a UNC-15 Periodontal Probe

### 3

#### Description

Gingival margin status

#### Timepoint

0 and 6 months

#### Method of measurement

per millimeters by means of a UNC-15 Periodontal Probe

### 4

#### Description

Defect Bone Fill

#### Timepoint

0 and 6 months

#### Method of measurement

per millimeters by means of a UNC-15 Periodontal Probe

### 5

#### Description

Crestal Bone Status

#### Timepoint

0 and 6 months

#### Method of measurement

per millimeters by means of a UNC-15 Periodontal Probe

## 6

### **Description**

amount of defect resolve

### **Timepoint**

0 and 6 months

### **Method of measurement**

per millimeters by means of a UNC-15 Periodontal Probe

## **Secondary outcomes**

empty

## **Intervention groups**

### 1

#### **Description**

Palatal connective Tissue graft with periosteum as a membrane

#### **Category**

Treatment - Surgery

### 2

#### **Description**

Palatal connective Tissue graft without periosteum as a membrane

#### **Category**

Treatment - Surgery

## **Recruitment centers**

### 1

#### **Recruitment center**

##### **Name of recruitment center**

Islamic Azad Dental School Khorasgan Branch, (Isfahan), Iran

##### **Full name of responsible person**

Mohamadreza Ghafari

##### **Street address**

Islamic Azad University Khorasgan (Isfahan) Branch, University Boulevard, Arghavanieh, Eastern Jay Street, Isfahan, Iran.

##### **City**

Isfahan

## **Sponsors / Funding sources**

### 1

#### **Sponsor**

##### **Name of organization / entity**

Islamic Azad Dental School Khorasgan Branch, (Isfahan), Iran

##### **Full name of responsible person**

Vahid Esfahanian

##### **Street address**

Islamic Azad University Khorasgan (Isfahan) Branch, University Boulevard, Arghavanieh, Eastern Jay Street, Isfahan, Iran

#### **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 Dental School Khorasgan Branch, (Isfahan), Iran

#### **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 Dental School Khorasgan Branch, (Isfahan), Iran

#### **Full name of responsible person**

Mohamadreza Ghafari

#### **Position**

Post-graduate Student of Periodontics

#### **Other areas of specialty/work**

#### **Street address**

Islamic Azad University Khorasgan (Isfahan) Branch, University Boulevard, Arghavanieh, Eastern Jay Street, Isfahan, Iran

#### **City**

Isfahan

#### **Postal code**

#### **Phone**

+98 31 1535 4001

#### **Fax**

#### **Email**

shahabgh1982@gmail.com

#### **Web page address**

## **Person responsible for scientific inquiries**

### **Contact**

#### **Name of organization / entity**

Islamic Azad Dental School Khorasgan Branch, (Isfahan), Iran

#### **Full name of responsible person**

Mohamadreza Ghafari

#### **Position**

Post\_graduated Student Of Periodontics

#### **Other areas of specialty/work**

#### **Street address**

Islamic Azad University Khorasgan (Isfahan) Branch, University Boulevard, Arghavanieh, Eastern Jay

Street, Isfahan, Iran

**City**

Isfahan

**Postal code**

**Phone**

+98 31 1535 4001

**Fax**

**Email**

shahabgh1982@gmail.com

**Web page address**

**City**

Isfahan

**Postal code**

**Phone**

+98 31 1535 4001

**Fax**

**Email**

shahabgh1982@gmail.com

**Web page address**

**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Islamic Azad Dental School Khorasgan Branch,  
(Isfahan), Iran

**Full name of responsible person**

Mohamadreza Ghafari

**Position**

Post-Graduated Student Of Periodontics

**Other areas of specialty/work**

**Street address**

Islamic Azad University Khorasgan (Isfahan) Branch,  
University Boulevard, Arghavanieh, Eastern Jay  
Street, Isfahan, Iran

**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*