

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Clinical and histologic evaluation of mineralized corticocancellous allograft blocks for horizontal augmentation of maxillary deficient ridge

Protocol summary

Summary

This research is done on patients referring to periodontology and implant ward of the Azad University of Dentistry ,Tehran branch who need implant in maxillary ridge. Samples have adequate bone height but inadequate buccolingual width (width less than 4 mm, minimum 2 mm) that are evaluated with CBCT. Patients who have systemic conditions are excluded. After local anesthesia , a paracrestal incision with two vertical incisions in horizontal endings is made so that two teeth are beyond the area. Full thickness flap is reflected, then buccolingual thickness is measured clinically in 2 and 5 millimeters from crest tip with bone caliper. After buccal bone decortication, mineralized corticocancellous allograft blocks (size 5*10*10 mm) made by HAMANANDSAZ BAFT KISH COMPANY are fixed with 1.4 mm diameter screw and any gap is filled with bone particles and measures are repeated ,then site is covered with collage nous membrane and tension free flap is sutured .Six months after augmentation , measures are repeated. According to the ridge in implant site ,biopsy sample is removed with 2mm trephine drill and sent for histologic evaluation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201408173720N3**

Registration date: **2015-05-03, 1394/02/13**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-05-03, 1394/02/13

Registrant information

Name

Roya Shariatmadarahmadi

Name of organization / entity

Department of periodontology, Dental branch, Islamic Azad University

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Recruitment status

Recruitment complete

Funding source

HAMANANDSAZ BAFT KISH COMPANY

Expected recruitment start date

2013-03-20, 1391/12/30

Expected recruitment end date

2014-03-20, 1392/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical and histologic evaluation of mineralized corticocancellous allograft blocks for horizontal augmentation of maxillary deficient ridge

Public title

Clinical and histologic evaluation of mineralized corticocancellous allograft blocks for horizontal augmentation of maxillary deficient ridge

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:all patients need augmentation followed by implant treatment. All samples should have adequate

bone height but inadequate bucolingual thickness (width less than 4 mm with minimum width 2mm) that are measured by CBCT. Exclusion criteria: patients who have systemic conditions affecting healing such as uncontrolled diabetes , immune disorders , systemic or local bone disorders ,previous history of alcohol or drug abuse,smoking,pregnancy,lactating, using immune suppressing agents and anti coagulant agents,poor compliance patients,untreated active periodontal disease and patients who can not keep good oral hygiene or unwillingness to cooperate.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 10

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Unit of Azad university of Dentistry ,Tehran branch

Street address

10 th neyestan , pasdaran St

City

Tehran

Postal code

19486

Approval date

2014-03-10, 1392/12/19

Ethics committee reference number

12441215

Health conditions studied**1****Description of health condition studied**

Horizontal augmentation of maxillary deficient ridge

ICD-10 code

k08.2

ICD-10 code description

Atrophy of edentulous alveolar ridge

Primary outcomes**1****Description**

Determination of histologic and clinical effect of mineralized corticocancellous allograft blocks for horizontal ridge augmentation in maxilla

Timepoint

Six months

Method of measurement

CBCT and bone caliper

Secondary outcomes

empty

Intervention groups**1****Description**

Horizontal augmentation of maxillary ridge

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Islamic Azad university of Tehran , Dental branch

Full name of responsible person**Street address****City**

Tehran

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Hamanand saz baft kish company

Full name of responsible person

Mr. Kaveh

Street address

No.8, Eastern 19th , saadat abad St

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Hamanand saz baft kish company

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

Department of Periodontology ,Dental branch,Islamic Azad University of tehran

Full name of responsible person

Roya Shariatmadar ahmadi

Position

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Person responsible for updating data

Contact

Name of organization / entity

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Babak Iranpour

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Other areas of specialty/work

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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