Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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

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Position

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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