Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of guided bone regeneration of collagen-curcumin-aspirin membrane with commercial collagen membrane in patients who needed alveolar ridge augmentation for implant placement

Protocol summary

Study aim
Comparison of guided bone regeneration of collagen-curcumin-aspirin membrane with commercial collagen membrane in patients who needed alveolar ridge augmentation for implant placement

Design
A parallel clinical trial with the control group of 10 patients

Settings and conduct
The prepared membranes will be used in 10 patients (each patient needs two implants). After implant placement, the periosteum and skin are sutured using a 5-0 suture. In 1, 2, 4 and 8 weeks after surgery, a clinical evaluation of the paitient will be performed. In two month after surgery, the radiographic images will be used to examine the area.

Participants/Inclusion and exclusion criteria
Inclusion criteria: Patients who need implant placement and alveolar ridge augmentation at the same time.
Exclusion criteria: People with poor oral health

Intervention groups
Test group: The prepared collagen-curcumin-aspirin membranes are used under the implant. Control group: Commercial collagen membranes are used under the implant.

Main outcome variables
Ability to conduct guided bone regeneration

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20200919048756N2**
Registration date: **2021-01-20, 1399/11/01**
Registration timing: **prospective**
Last update: **2021-01-20, 1399/11/01**
Update count: **0**

Registration date
2021-01-20, 1399/11/01

Registrant information

Name
Solmaz Maleki Dizaj

Name of organization / entity

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Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2021-02-02, 1399/11/14

Expected recruitment end date
2021-03-04, 1399/12/14

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of guided bone regeneration of collagen-curcumin-aspirin membrane with commercial collagen membrane in patients who needed alveolar ridge augmentation for implant placement

Public title
Evaluation of guided bone regeneration in collagen-curcumin-aspirin membrane

Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Patients who need implant placement and alveolar ridge augmentation at the same time.
Exclusion criteria:
People with poor oral health Smokers Alcoholics People with diabetes People with high blood pressure or other systemic diseases
Age
From **18 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **10**
More than 1 sample in each individual
Number of samples in each individual: **2**
-
Randomization (investigator's opinion)
N/A
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
Ethics committee of Tabriz University of Medical Sciences
Street address
Golgasht St, Daneshgah Ave, Tabriz University of Medical Sciences, Tabriz, Iran
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Tabriz
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East Azarbaijan
Postal code
5166614766
Approval date
2020-12-13, 1399/09/23
Ethics committee reference number
IR.TBZMED.REC.1399.864

Health conditions studied

1

Description of health condition studied
Guided bone regeneration (GBR) to improve bone defects
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
New bone formation
Timepoint
Two months after implant and membrane placement
Method of measurement
Radiographic imaging

Secondary outcomes

empty

Intervention groups

1

Description
Control group: One of the patient's implants is considered as a control in which a commercial collagen membrane (Regen, Germany) is placed in the lower tissue of the implant and then the tissue is sutured and the implant is placed. Another implant of the patient is considered as the test group. Collagen-curcumin-aspirin membranes are placed in the lower tissue of the implant and then the tissue is sutured and the implant is placed.
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center
Faculty of Dentistry, Tabriz University of Medical Sciences
Full name of responsible person
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Sponsors / Funding sources

1

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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Tabriz University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact
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Resident of Oral and Maxillofacial Surgery
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available
Study Protocol
Yes - There is a plan to make this available
Statistical Analysis Plan
Yes - There is a plan to make this available
Informed Consent Form
No - There is not a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
Not applicable
Data Dictionary
Not applicable
Title and more details about the data/document
The data will be published as an article.
When the data will become available and for how long
After the final publication of the article resulting from the data.
To whom data/document is available
Public
Under which criteria data/document could be used
For use in research articles and systematic reviews with citation.
From where data/document is obtainable
Dr. Solmaz Maleki Dizaj, Tabriz Faculty of Dentistry
What processes are involved for a request to access data/document
It can be in person or by email.
Comments