Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of two suturing techniques on free gingival graft shrinkage

Protocol summary

Summary

The aim of this study was comparison of the effect of two suturing methods on shrinkage of free gingival graft. The study population was the patients referred to kerman Dental School and needed gingival augmentation on canine or premolar teeth bilaterally. 10 patients were included in the study. The inclusion criteria were lack of systemic diseases, no smoking, not to take the medications affected on periodontium such as nifedipine. The width of attached and keratinized gingival, and probing depth were measured at baseline. With throwing coin, the control and test sites were determined. Free gingival graft was performed on both control and test sites. After placing the graft on the bed, in control sites, interrupted and circumferential sutures were utilized. In test sides, other than these sutures, apical stretching and horizontal continuous sutures were used. After 1, 3, and 6 months, measurements were recorded again.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201608205305N5**
Registration date: **2016-10-27, 1395/08/06**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2016-10-27, 1395/08/06

Registrant information

Name

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Name of organization / entity

Kerman Dental School

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Kerman University of Medical Sciences

Expected recruitment start date

2011-10-06, 1390/07/14

Expected recruitment end date

2012-05-01, 1391/02/12

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of two suturing techniques on free gingival graft shrinkage

Public title

Effect of suturing on gingival graft shrinkage

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Need to bilateral gingival augmentation; Lack of systemic diseases contraindicated periodontal surgery; Pregnancy; Breastfeeding;full mouth plaque index and bleeding index less than 20 percent.
Exclusion criteria: Smoking; Taking medications affecting on periodontium such as phenytoin.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Commite of Kerman University of Medical Siences

Street address

Tahmasb abad Cross over, Researches Center

City

Kerman

Postal code

Approval date

2011-09-23, 1390/07/01

Ethics committee reference number

KA/90/180

Health conditions studied

1

Description of health condition studied

Gingival recession

ICD-10 code

K06.0

ICD-10 code description

Gingival recession

Primary outcomes

1

Description

width of keratinized gingiva

Timepoint

1,3, and 6 months after intervention

Method of measurement

with periodontal probe in milimeter

2

Description

Probing depth

Timepoint

1,3,6 month

Method of measurement

Periodontal probe

Secondary outcomes

1

Description

widthof attached gingiva

Timepoint

1,3,6 month

Method of measurement

periodontal probe

Intervention groups

1

Description

In control sites, Interrupted and circumferential suture techniques were used to stabilize the graft. In test sites, apical stretching and horizontal continuous suture techniques other than the control site sutures, were used to stabilize the graft.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Periodnotics Dept.,Kerman Dental School

Full name of responsible person

Mohammad Mohammadi

Street address

City

Kerman

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

dental and oral diseases research center

Full name of responsible person

Dr. hashemi pour

Street address

kosar blvd.

City

kerman

Grant name

Grant code / Reference number

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

Yes

Title of funding source
dental and oral diseases research center
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

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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