

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

Comparison of increasing the width and thickness of keratinized gingiva in two methods of connective tissue graft and graft by composition of collagen and rich plasma in patients who are candidate for gingival grafts

Protocol summary

Summary

The purpose of this study is to compare clinically and histologically two methods of gingival grafts: the connective tissue graft and combination of Stypro plus platelet rich plasma plus platelet rich fibrin in increasing the width and thickness of keratinized gingiva in patients who are candidate for gingival grafts. 8 patients among patients of periodontology department of Shiraz dental school will be selected who have inadequate width of keratinized gingiva(2 mm or less) and inadequate thickness of keratinized gingiva(1 mm or less) bilaterally at buccal of one root teeth. Pregnancy; coagulation disorders; diabetes; cardiovascular disorders; hypertension; radiotherapy; cancer and other systemic disorders which influence the keratinization were the exclusion criterias. In the first surgery at one side we will perform graft of combination of Stypro plus platelet rich plasma plus platelet rich fibrin which will maintained in their bed by acrylic stent. In second surgery at contalaterl we will perform connective tissue graft. Measurements of width and thickness and mobility of the graft on the bed will perform 1, 2, 3 months later. At the end of second month punch biopsy will be performed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202018723N1**
Registration date: **2012-04-22, 1391/02/03**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-04-22, 1391/02/03

Registrant information

Name

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Name of organization / entity

Shiraz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences

Expected recruitment start date

2012-02-20, 1390/12/01

Expected recruitment end date

2012-03-19, 1390/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of increasing the width and thickness of keratinized gingiva in two methods of connective tissue graft and graft by composition of collagen and rich plasma in patients who are candidate for gingival grafts

Public title

Comparison of two methods of graft in patients who are candidate for gingival grafts

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria:patients with inadequate width(2 mm or less) and thickness(1 mm or less) of keratinized gingiva bilaterally at buccal in one root teeth;without muscle attachment; with 5 to 7 mm depth of the vestibule; adjacent teeth have enough width and thickness of keratinized gingiva. exclusion criteria:pregnancy;clotting disorders;diabete;cardiovascular problems;hypertension;radiotherapy;cancer;other systemic disorders

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **8**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Fars University of Medical sciences

Street address

Zand Ave, Shiraz

City

Shiraz

Postal code

1978-71345

Approval date

2012-01-21, 1390/11/01

Ethics committee reference number

CT_90_5917

Health conditions studied

1

Description of health condition studied

Inadequate width and thickness of keratinized gingiva

ICD-10 code

k06

ICD-10 code description

Gingival recession

Primary outcomes

1

Description

width of keratinized gingiva

Timepoint

1,2 and 3 months after intervention

Method of measurement

rolling and logul solution

2

Description

thickness of keratinized gingiva

Timepoint

1,2 and 3 months after intervention

Method of measurement

with endodontic files

Secondary outcomes

1

Description

pain

Timepoint

everyday until one week after surgery

Method of measurement

with VAS

Intervention groups

1

Description

intervention group: surgery of graft of stypro plus platelet rich plasma plus platelet rich fibrin

Category

Treatment - Other

2

Description

control group: surgery of gingival graft (connective tissue graft)

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Periodontology Department of Shiraz Dental School

Full name of responsible person

Samira Esmailzadeh

Street address

Ghomabad

City

Shiraz

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

Fars University of Medical Sciences

Full name of responsible person

Dr.Gholamreza Hatam

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Zand Ave, Shiraz

City

Shiraz

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

Yes

Title of funding source

Fars University of Medical Sciences

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**

Fars University of Medical Sciences

Full name of responsible person

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Position

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Full name of responsible person

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Web page address**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*