

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Aug 2026

Comparison of Mucoderm with connective tissue graft on root coverage in Miller class I and II gingival recessions

Protocol summary

Study aim

Comparison of Mucoderm with connective tissue on root coverage

Design

Pragmatic, community based, parallel group, double blind, randomized controlled trial

Settings and conduct

In patients with bilateral Miller class I and II gingival recessions , one side will be treated by mucoderm and the other side will be treated with connective tissue randomly. Patients and researcher won't know which side is treated by which material

Participants/Inclusion and exclusion criteria

Patients with bilateral Miller class I and II gingival recessions 2mm or more and those who do not smoke, Women who are not pregnant or breastfeeding, those who do not have systemic diseases which are contraindicated for surgery, patients who do not consume drugs affecting gingivae, patient with appropriate tooth brushing method like Stillman and patients with good oral hygiene. Teeth which are abutments for partial dentures, orthodontic brackets, teeth that are crowns and decayed and have cervical fillings will be excluded

Intervention groups

For root coverage, Mucoderm will be used in one side and connective tissue will be used on the other side and root coverage percentage will be compared between the two groups

Main outcome variables

Evaluation of gingival recession, keratinized tissue width, gingival thickness, pocket depth and clinical attachment level before and after surgery

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20140318017053N10**

Registration date: **2019-04-13, 1398/01/24**

Registration timing: **retrospective**

Last update: **2019-04-13, 1398/01/24**

Update count: **0**

Registration date

2019-04-13, 1398/01/24

Registrant information

Name

Ferena Sayar

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2256 4571

Email address

f_sayar@dentaliau.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-22, 1397/10/01

Expected recruitment end date

2019-02-19, 1397/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Mucoderm with connective tissue graft on root coverage in Miller class I and II gingival recessions

Public title

Comparison of Mucoderm with connective tissue graft on root coverage

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Patients with Miller class I and II gingival recessions with 2 mm or more

Exclusion criteria:

Patients who smoke Women who are pregnant or breastfeeding Patients with systemic diseases which have surgical contraindications Patients who consume drugs with adverse effects on gingivae Patients with inappropriate oral hygiene Teeth which are abutments for partial denture, orthodontic brackets, crowns, decays and cervical fillings

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Investigator
- Data analyser

Sample size

Target sample size: 10

Randomization (investigator's opinion)

Randomized

Randomization description

Computer generated randomization list (Microsoft Excel 2010)

Blinding (investigator's opinion)

Double blinded

Blinding description

Participants, investigator and Data analyzer won't know which side is treated with Mocoderm and which side is treated with connective tissue.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Faculty of Dentistry Tehran Medical sciences , Islamic Azad University

Street address

No.4 , 10th Neyestan st. , Pasdaran Ave.

City

Tehran

Province

Tehran

Postal code

19585/175

Approval date

2018-02-28, 1396/12/09

Ethics committee reference number

IR.IAU.DENTAL.REC.1397.023

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

Root coverage treatment

ICD-10 code

K05.5

ICD-10 code description

Root coverage treatment

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

Root coverage percentage

Timepoint

Before surgery and 1, 3 and 6 month after surgery

Method of measurement

Gingival Recession depth measurement with Williams probe

Secondary outcomes**1****Description**

Measurement of keratinized tissue, pocket depth and attachment level.

Timepoint

Before, 1, 3 and 6 months after therapy.

Method of measurement

By periodontal probe

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

Control group: grafting with connective tissue graft

Category

Treatment - Surgery

2**Description**

Intervention group: grafting with Mucoderm

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Periodontics department of Islamic Azad University

Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Arash Azizi

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Web page address

http://dentaliau.ac.ir

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

Yes

Title of funding source

Islamic Azad University

Proportion provided by this source

100

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Persons

Person responsible for general inquiries

Contact**Name of organization / entity**

Islamic Azad University

Full name of responsible person

Ferena Sayar

Position

associate professor

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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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

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

all collected deidentified IPD

When the data will become available and for how long

Starting 6 month after publication

To whom data/document is available

people working in academic institutions

Under which criteria data/document could be used

those who will need these information for later researches

From where data/document is obtainable

Postal and email addresses, Mobile phone

What processes are involved for a request to access data/document

When they call our mobile phone or send email to the responsible person (Alireza Fathizir) we will call them back

Comments