Clinical Trial Protocol
Iranian Registry of Clinical Trials

25 Nov 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
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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
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Full name of responsible person
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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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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 adresses,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 Fathizr) we will call them back
Comments