Clinical Trial Protocol
Iranian Registry of Clinical Trials

25 Nov 2026

Comparison of effectiveness of the two methods of Coronally advanced flap with connective tissue graft and Vestibular incision subperiosteal tunnel acces with connective tissue graft in treatment of gingival recession in patients with gingival recession type I, III Miller

Protocol summary

Study aim
clinical evaluation of two different methods of gingival recession treatment

Design
Clinical Trial, include two groups: one as control group and another as intervention group, with unilaterally blindness of patients. With available sampling 5 patients are selected, that each one has three pairs of teeth with gingival recession. Due to no medications, the clinical trial phase is not applicable.

Settings and conduct
For each patient based on Simple randomization, left teeth determine as intervention group and right ones as controlled group. Treatment for intervention group is done by VISTA technique, and for controlled group by CAF technique in Dental Clinic, Faculty of Dentistry, Bushehr University of Medical Sciences. For both groups the connective tissue graft takes from palatal de_epithelialization connective tissue in region of the premolar_first molar.

Participants/Inclusion and exclusion criteria
Inclusion criteria: 1) People aged over 18 years old 2) Gingival recession type I, III Miller 3) Absence of uncontrolled systemic disease 4) No smoking 5)˝Absence of active periodontal disease symptoms 6) Probing depth less than 3 mm 7) Bleeding index and plaque less than 20% Exclusion criteria: 1) People who are in periodontal surgery phases 2) Those who take medications that affect gum and wound healing 3) Pregnant women 4) Those undergoing orthodontic treatment 5) Abrasion or filling in the area of cementoenamel junction 6) Malposed teeth 7) Teeth with surgical history in recession area

Intervention groups
Intervention group: treatment of gingival recession type I, III Miller by method of Vestibular Incision Subperiosteal Tunnel Acces (VISTA) with connective tissue graft Control group: treatment of gingival recession type I, III Miller by method of Coronally Advanced Flap (CAF) with connective tissue graft

Main outcome variables
depth of gingival recession

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20190803044416N1**
Registration date: **2019-09-08, 1398/06/17**
Registration timing: **retrospective**

Last update: **2019-09-08, 1398/06/17**
Update count: **0**

Registration date
2019-09-08, 1398/06/17

Registrant information

Name
Yasaman Mojarrad

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

2019-02-06, 1397/11/17

Expected recruitment end date

2019-02-14, 1397/11/25

Actual recruitment start date

2019-02-06, 1397/11/17

Actual recruitment end date

2019-02-14, 1397/11/25

Trial completion date

2019-08-16, 1398/05/25

Scientific title

Comparison of effectiveness of the two methods of Coronally advanced flap with connective tissue graft and Vestibular incision subperiosteal tunnel acces with connective tissue graft in treatment of gingival recession in patients with gingival recession type I, III Miller

Public title

Comparison of two the methods of Coronally advanced flap with connective tissue graft and Vestibular incision subperiosteal tunnel acces with connective tissue graft in treatment of gingival recession type I, III Miller

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

people aged over 18 years old gingival recession type I, III Miller absence of uncontrolled systemic disease no smoking absence of active periodontal disease symptoms probing depth less than 3 mm bleeding index and plaque less than 20%

Exclusion criteria:

people who are in periodontal surgery phases those who take medications that affect gum and wound healing pregnant women those undergoing orthodontic treatment abrasion or filling in the area of CEJ (cementoenamel junction) malposed teeth (teeth which not placed in their right position) teeth with surgical history in recession area

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **5**
More than 1 sample in each individual
Number of samples in each individual: **6**
Symmetrical teeth in right and left side of maxilla which have gingival recession type I, II Miller
Actual sample size reached: **5**
More than 1 sample in each individual
Actual sample size in each individual: **6**
Symmetrical teeth in right and left side of maxilla which have gingival recession type I, II Miller

Randomization (investigator's opinion)

Randomized

Randomization description

At the beginning of research, by use of simple randomization (flipping a coin), the right teeth was assigned to the control group and the left ones to the intervention group.

Blinding (investigator's opinion)

Single blinded

Blinding description

Blinding was performed unilaterally so that patients were unaware of the assignment of the left and right teeth to the control or intervention groups.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of bushehr University of Medical Sciences

Street address

Moallem St, Kuy-e-Bandar,Bandar Bushehr,Bushehr Province

City

busher

Province

Boushehr

Postal code

7514633196

Approval date

2019-02-05, 1397/11/16

Ethics committee reference number

IR.BPUMS.REC.1397.104

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

Depth of gingival recession

Timepoint

Baseline, 3 and 6 months postoperatively

Method of measurement

by Michigan periodontal probing instrument

Secondary outcomes

1

Description
Width of keratinized gingiva
Timepoint
Baseline, 3 and 6 month postoperatively
Method of measurement
By Michigan periodontal probing instrument

Intervention groups

1

Description
Control group: treatment of gingival recession type I, III Miller by method of Coronally advanced flap with connective tissue graft which is taken from palatal de_epithelialized connective tissue in region of the premolar_first molar.
Category
Treatment - Surgery

2

Description
Intervention group: treatment of gingival recession type I, III Miller by method of Vestibular Incision Subperiosteal Tunnel Acces (VISTA) with connective tissue graft which is taken from palatal de_epithelialized connective tissue in region of the premolar_first molar.
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center
Dental clinic of Bushehr University of Medical Sciences
Full name of responsible person
Seyed Ammar Basri
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Web page address

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Boushehr University of Medical Sciences
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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
Boushehr 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
Name of organization / entity
Boushehr University of Medical Sciences
Full name of responsible person
Seyed Ammar Basri
Position
Associate Professor
Latest degree
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available