

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Aug 2026

### Comparison of effectiveness of the two methods of Coronally advanced flap with connective tissue graft and Vestibular incision subperiosteal tunnel access 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 cemento-enamel 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 Access (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 Mojarad

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 77 3422 9421

##### Email address

y.mojarad@bpums.ac.ir

##### 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 access 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 access 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  
(cemento-enamel 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

bushehr

##### 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

## 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 Access (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

##### Street address

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

##### City

Bushehr

##### Province

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##### Postal code

7514633341

##### Phone

+98 77 3422 9421

##### Email

basriab63@gmail.com

##### Web page address

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Bushehr University of Medical Sciences

##### Full name of responsible person

Gholam Reza Khamisipour

##### Street address

Moalem st.

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+98 77 3345 0178

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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

Bushehr 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

Bushehr University of Medical Sciences

##### Full name of responsible person

Seyed Ammar Basri

##### Position

Associate Professor

##### Latest degree

Specialist

##### Other areas of specialty/work

Dentistry

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## Person responsible for scientific inquiries

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## Person responsible for updating data

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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