

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

21 Jun 2026

### Comparison of two periodontal flap closure methods , suture and tissue adhesive , in crown lengthening surgery .

#### Protocol summary

##### Study aim

Comparison of Clinical Findings of Two Methods of Using Suture and Tissue Glue

##### Design

A clinical trial with a control and test group, single blind, unidirectional

##### Settings and conduct

Patients undergoing surgical procedure for increasing crown length in the maxillary premolar area referred to the periodontology department of the faculty of dentistry of Jondishapur University of Ahvaz have undergone surgery. Then the wound is sutured or closed with tissue glue. During the next sessions, indications for wound healing, presence or non-sensitivity, lower bone matching, postoperative hemorrhage.

##### Participants/Inclusion and exclusion criteria

Patients undergoing crown lengthening in maxillary premolar teeth with a range of 20-50 years old who are non-smokers with no systemic disease and no history of allergy are selected from patients referring to periodontics department of dental faculty of Ahwaz Jundishapur University.

##### Intervention groups

Surgical wound closure with tissue glue (Test group) or suture (control group).

##### Main outcome variables

It is expected that using a tissue adhesive in the amount of pain, wound healing, presence or non-sensitivity, lower bone matching, postoperative hemorrhage compared with sutures

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20190509043541N1**

Registration date: **2019-06-22, 1398/04/01**

Registration timing: **retrospective**

Last update: **2019-06-22, 1398/04/01**

Update count: **0**

##### Registration date

2019-06-22, 1398/04/01

##### Registrant information

###### Name

Azarnoush Aryankia

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 61 3333 4565

###### Email address

aryankian-a@ajums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2019-04-21, 1398/02/01

##### Expected recruitment end date

2019-06-21, 1398/03/31

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of two periodontal flap closure methods , suture and tissue adhesive , in crown lengthening surgery .

##### Public title

Evaluation of different wound closer methode in periodontal surgery

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

**Inclusion criteria:**

Patients who are candidates for crown lengthening surgery in maxillary premolars

**Exclusion criteria:**

Smoker patients Patient with any past history of systemic disease or sensitivity

**Age**

From **20 years** old to **50 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **34**

**Randomization (investigator's opinion)**

Not randomized

**Randomization description****Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

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

National Ethics Committee for Biomedical Research

**Street address**

Headquarters of the Ministry of Health and Medical Education, Block A, Thirteenth Class, Simay Iran Avenue, Between South Falamak and Zarafshan, Shahrak Ghods

**City**

Tehran

**Province**

Tehran

**Postal code**

5618985991

**Approval date**

2019-04-28, 1398/02/08

**Ethics committee reference number**

IR.AJUMS.REC.1398.079

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

Crown Lengthening

**ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

Postoperative bleeding

**Timepoint**

3 day after surgery

**Method of measurement**

On the third day, with the observation and clinical examination of the patient, the rate of postoperative bleeding (divided into: 1 - high bleeding 2 - low and continuous bleeding 3 - low bleeding and accidental bleeding 4 - bleeding 5 - no bleeding) (10) And are recorded on the respective charts.

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

wound healing index

**Timepoint**

14 days after surgery

**Method of measurement**

wound healing index by observation and examination Clinical patient (including very weak, weak, satisfactory, good, very good)

**2****Description**

presence or non-sensitivity

**Timepoint**

14 days after surgery

**Method of measurement**

sensitivity to the patient's clinical examination (including sensitization or not)

**3****Description**

lower bone matching

**Timepoint**

14 days after surgery

**Method of measurement**

tissue fitting with the lower bone by observation and clinical examination of the patient (including Adapted and not compliant

**4****Description**

Pain score

**Timepoint**

14 days after surgery

**Method of measurement**

the degree of pain was measured by asking the patient based on the use of VAS (visual scale) scaling from zero

to ten (0 = painless to 10 = the worst pain possible)

## Intervention groups

### 1

#### Description

Control group: suture- in half of the patients silk 0.4 suture is placed and followed for two weeks

#### Category

Treatment - Devices

### 2

#### Description

Intervention group: tissue adhesive- in half of the patients PeriAcryl 90-HV with tissue adhesive. flap tissue is held in place for 2 min until wound is closed.

#### Category

Treatment - Devices

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Department of Periodontology, Faculty of Dentistry, Jundishapur University of Ahvaz

##### Full name of responsible person

Azarnoush Aryankia

##### Street address

Periodontology Department, Dental College, Jundishapur University of Medical Sciences, Golestan

##### City

Ahvaz

##### Province

Khouzestan

##### Postal code

15794 - 61357

##### Phone

+98 61 3333 2368

##### Fax

##### Email

aryankian\_a@agums.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Ahvaz University of Medical Sciences

##### Full name of responsible person

Dr. Mohammad Badavi

##### Street address

University of ahvaz, assistant professor of research and technology, university of medical sciences Ahvaz Jundishapur health services- Ground floor

##### City

ahvaz

##### Province

Khouzestan

##### Postal code

6135715775

##### Phone

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##### Fax

+98 61 3336 1544

##### Email

badavi-m@ajums.ac.ir

#### Grant name

#### Grant code / Reference number

#### Is the source of funding the same sponsor organization/entity?

Yes

#### Title of funding source

Ahvaz 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

Ahvaz University of Medical Sciences

##### Full name of responsible person

Azarnoush Aryankia

##### Position

Assistant professor

##### Latest degree

Specialist

##### Other areas of specialty/work

Dentistry

##### Street address

Academic city, adjacent to Central Office of Jundishapur University of Medical Sciences and Health Services Ahvaz, Deputy Director for Research and Technology Development

##### City

Ahvaz

##### Province

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## Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

Ahvaz University of Medical Sciences

**Full name of responsible person**

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**Position**

Assistant professor

**Latest degree**

Specialist

**Other areas of specialty/work**

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**Email**

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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