

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 Ahvaz 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)

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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

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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

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Badavi

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

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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

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

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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