

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

evaluation of tissue healing after periodontal surgery using cyanoacrylate adhesive in patients referring to islamic azad university of tehran in 1397-98

Protocol summary

Study aim

evaluation of tissue healing after periodontal surgery using cyanoacrylate adhesive and not using it in patients referring to islamic azad university dental branch of tehran in 1397-98

Design

Two arm parallel group randomised trial not blinded postoperative care and outcome assessment

Settings and conduct

this split mouth clinical trial study is performed on the patients referring to the periodontics department of islamic azad university of tehran. all the patients who are indicated for periodontal surgery in 6 sextants or more are evaluating after signing a written and informed agreement. mouth of each patient splits to control and intervention group randomly. to close the wound cyanoacrylate is used in intervention group and 4-0 suture is used in control group. pain is measured by VAS index. tissue healing that is measured by Landry index and the amount of plaque on the surgery site that is measured by Turesky index is evaluating on the first follow up that is a week after surgery. probing depth of surgery site is measured by a periodontal prob on second follow up that is 6 weeks after surgery.

Participants/Inclusion and exclusion criteria

inclusion criteria: patients who need pocket elimination periodontal surgery in 2 sextants or more exclusion criteria: patients with systemic diseases that affects tissue healing, using medications that affects the tissue healing, pregnancy, more than 20% of plaque index

Intervention groups

in control group 0000 suture is used after surgery. in intervention group cyanoacrylate adhesive is used after surgery.

Main outcome variables

pain; plaque index on surgery site; probing depth on surgery site; healing index

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120220009088N2**

Registration date: **2019-10-01, 1398/07/09**

Registration timing: **registered_while_recruiting**

Last update: **2019-10-01, 1398/07/09**

Update count: **0**

Registration date

2019-10-01, 1398/07/09

Registrant information

Name

Saeed Sadat Mansouri

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2291 9455

Email address

s_sadatmansouri@dentaliau.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-22, 1397/10/01

Expected recruitment end date

2019-11-21, 1398/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

evaluation of tissue healing after periodontal surgery using cyanoacrylate adhesive in patients referring to islamic azad university of tehran in 1397-98

Public title

evaluation of tissue healing after periodontal surgery using cyanoacrylate adhesive

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

patients who are indicated for periodontal flap elimination surgery in 2 sextants or more

Exclusion criteria:

patients with systemic diseases that affects tissue healing using medications that affects tissue healing pregnancy more than 20% of plaque index

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **15**

More than 1 sample in each individual

Number of samples in each individual: **2**

each sextant of each patient is used as a sample

Randomization (investigator's opinion)

Randomized

Randomization description

randomization method: simple randomization

randomization unit: a sextant of patients mouth

randomization instrument: dentists observation

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**

Faculty of dentistry, islamic azad university, Tehran.

Street address

no 4, 10th Neyestan, Pasdaran

City

Tehran

Province

Tehran

Postal code

19585175

Approval date

2018-12-22, 1397/10/01

Ethics committee reference number

IR.IAU.DENTAL.REC.1397.025

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

periodontal surgery for pocket elimination

ICD-10 code

K05

ICD-10 code description

Gingivitis and periodontal diseases

Primary outcomes**1****Description**

pain

Timepoint

pain is measured everyday from the day of surgery up to a week.

Method of measurement

Visual Analogue Scale

2**Description**

tissue healing index

Timepoint

first follow up that is a week after surgery

Method of measurement

Landry index

3**Description**

plaque on surgery site

Timepoint

first follow up that is a week after surgery

Method of measurement

Turesky index

4**Description**

probing depth on surgery site

Timepoint

second follow up that is 6 weeks after surgery

Method of measurement

periodontal probe

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: after surgery on the intended sextant of the patients mouth that is chosen randomly, cyanoacrylate adhesive is used to close the wound. Periacyl90 cyanoacrylate adhesive that is that is a combination of butyl and octyl cyanoacrylate, made in glustitch company in canada, purple colored that is seen when using, in of water and saliva polymerises rapidly. it is used to cover the donor sites of the gum, protecting the sutures and recipient sites,....

Category

Treatment - Other

2

Description

Control group: after surgery on the intended sextant of the patients mouth that is chosen randomly, 4-0 silk suture is used to close the wound. The suture is made in supa company in iran.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Islamic azad university dental branch of tehran

Full name of responsible person

Saeed Sadatmansouri

Street address

No. 9, 9th Neyestan St. , Pasdaran Ave.

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Arash Azizi

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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

Islamic Azad University

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

Islamic Azad University

Full name of responsible person

Saeed Sadat Mansouri

Position

Associate professor, Periodontist

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Position

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Latest degree

Specialist

Other areas of specialty/work

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Web page address**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

Person responsible for updating data**Contact****Name of organization / entity**

Islamic Azad University

Full name of responsible person

Saeed Sadat Mansouri

Position

Associate professor, Periodontist

Latest degree

Specialist

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