

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

Comparison of the effect of suture application, with and without cyanoacrylate adhesive on pain and bleeding of intra-oral surgical wounds in patients with bilateral surgery indication in one jaw

Protocol summary

Study aim

Comparison of the effect of suture with and without cyanoacrylate adhesive on pain and bleeding in intraoral surgeries in the department of surgery, Faculty of Dentistry, Islamic Azad University, 2017-2018

Design

Clinical trial with control group, community based and pragmatic, with parallel groups, including 40 cases.

Settings and conduct

Oral surgeries were performed by a resident in the department of surgery of the faculty of dentistry, Islamic Azad University, Tehran. At one side of the mouth, cyanoacrylate adhesive was placed on the wound, and on the other side of the mouth the same surgery was performed and surgical wound was closed by suture. The severity of pain and bleeding was recorded by the patients in the first four days after surgery.

Participants/Inclusion and exclusion criteria

The inclusion criterias of this study included the need for bilateral surgery in upper or lower jaws; and the consent of the patient to the cases mentioned in the consent form. The exclusion criterias of this study included the presence of systemic diseases; disinterested and unmotivated patient; patients under the age of 16; Pregnant and lactating patients; patients with hypersensitivity to cyanoacrylate adhesive and patients who, after oral surgery, did not need suture and cyanoacrylate adhesive.

Intervention groups

In the control group, the wound was closed by suturing. In the case group, wound was closed by suturing and then two layers of cyanoacrylate adhesive was applied.

Main outcome variables

Pain; bleeding

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180623040205N1**

Registration date: **2018-08-20, 1397/05/29**

Registration timing: **retrospective**

Last update: **2018-08-20, 1397/05/29**

Update count: **0**

Registration date

2018-08-20, 1397/05/29

Registrant information

Name

Bahareh Moinee

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2255 4624

Email address

bm1369@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-02-14, 1396/11/25

Expected recruitment end date

2018-05-17, 1397/02/27

Actual recruitment start date

2018-02-14, 1396/11/25

Actual recruitment end date

2018-05-17, 1397/02/27

Trial completion date

empty

Scientific title

Comparison of the effect of suture application, with and without cyanoacrylate adhesive on pain and bleeding of intra-oral surgical wounds in patients with bilateral surgery indication in one jaw

Public title

The effect of suture with cyanoclastic adhesive on pain and bleeding of surgical wounds

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

bilateral surgery indication in upper or lower jaw
The consent of the patient with the items listed in the consent form.

Exclusion criteria:

The presence of any systemic disease
Disinterested and unmotivated patients
Patients under the age of 16
Pregnant and lactating patients
Patients who are hypersensitive to the composition of cyanoacrylate adhesives
Patients who do not need suture and cyanoacrylate adhesive after oral surgery

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **40**

More than 1 sample in each individual

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

On one side of the jaw, the suture was placed alone and on the other side, cyanoacrylate adhesive and sutures were used.

Actual sample size reached: **40**

More than 1 sample in each individual

Actual sample size in each individual: **2**

On one side of the jaw, the suture was placed alone and on the other side, cyanoacrylate adhesive and sutures were used.

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

Ethics committee of Dental School, Tehran Islamic Azad University

Street address

No.26, Latii Ave., Ekhtiyariye Sq.

City

Tehran

Province

Tehran

Postal code

1959874513

Approval date

2017-11-12, 1396/08/21

Ethics committee reference number

IR.IAU.DENTAL.REC.1396,29

Health conditions studied

1

Description of health condition studied

Impacted teeth

ICD-10 code

K01

ICD-10 code description

Embedded and impacted teeth

Primary outcomes

1

Description

Degree of wound pain after surgery

Timepoint

The first, second, third, and fourth days after surgery

Method of measurement

Visual Analogue Scale 0-9

2

Description

Degree of wound bleeding after surgery

Timepoint

The first, second, third, and fourth days after surgery

Method of measurement

classification of the bleeding in 5 spectra: no bleeding, oozing, accidental low bleeding, continues low bleeding and eventually massive continues bleeding

Secondary outcomes

empty

Intervention groups

1

Description

In the intervention group, after the surgical wound was closed using sutures, two layers of PeriAcryl 90-HV cyanoacrylate adhesive with the n-butyl and 2-octyl cyanoacrylates formula made by GLUSTITCH INC Factory were applied on the sutures. The adhesive was used based on the instructions on the package.

Category

Treatment - Surgery

2

Description

In the control group, sutures were used for closing the wound. For this purpose, non-absorbable silk thread 3.0 was used. The simple interrupted stitch method was used for closing the wound. (supasil- 3.0 usp- non-absorbable suture- supa medical devices)

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Department of Surgery, Faculty of Dentistry, Azad University of Medical Sciences, Tehran, Iran

Full name of responsible person

Bahareh Moinee

Street address

No.4, 10th Neyestan Ave., Pasdaran Ave.

City

Tehran

Province

Tehran

Postal code

19585175

Phone

+98 21 2276 3432

Email

bm1369@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Dr.Arash Azizi

Street address

No.4, 10th Neyestan Ave., Pasdaran Ave.

City

Tehran

Province

Tehran

Postal code

19585175

Phone

+98 21 2276 3432

Email

bm1369@gmail.com

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

Private

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

Bahareh Moinee

Position

Student

Latest degree

A Level or less

Other areas of specialty/work

Dentistry

Street address

No.26, Latifi Ave., Ekhtiyariye Sq.

City

Tehran

Province

Tehran

Postal code

1959874513

Phone

+98 21 2255 4624

Email

bm1369@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Islamic Azad University

Full name of responsible person

Bahareh Moinee

Position

Student

Latest degree

A Level or less

Other areas of specialty/work

Dentistry

Street address

No.26, Latifi Ave., Ekhtiyariye Sq.

City

Tehran

Province

Tehran

Postal code

1959874513

Phone

+98 21 2255 4624

Email

bm1369@gmail.com

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

Islamic Azad University

Full name of responsible person

Bahareh Moinee

Position

Student

Latest degree

A Level or less

Other areas of specialty/work

Dentistry

Street address

No.26, Latifi Ave., Ekhtiyariye Sq.

City

Tehran

Province

Tehran

Postal code

1959874513

Phone

+98 21 2255 4624

Email

bm1369@gmail.com

Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

No more information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available