Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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

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19585175

Phone
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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
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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

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Phone
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Email
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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
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Person responsible for updating data

Contact
Name of organization / entity
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Position
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Latest degree
A Level or less
Other areas of specialty/work
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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