Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

A clinical trial to compare suture vs. cyanoacrylate tissue glue for wound closure in mandibular third molars surgery

Protocol summary

Summary

1) Objectives: Randomized, single blind, without placebo control, unicentral, first phase of clinical trial 2) Design: Data were collected using the records of patients admitted to the Department of Oral and Maxillofacial surgery of Ahvaz Jondishapour Dental School during second half of 2014. 12 patients (age range 19 to 25) were enrolled in this study. 3)Setting and conduct: Patients with bilateral mandibular impacted teeth were selected. 4)Participants including major eligibility criteria: no systemic disease,no wound healing disruptive disease,no diabetes, no bleeding disorders, no history of anticoagulant medicines, no use of immunosuppressant drugs, no history of smoking and drinking. 5)Intervention: After simple sampling for odd and even, in the first surgery after removal of right impacted third molar, flap in evens will be closed with suture and odds with the help of adhesive. after 2 weeks the opposite 3rd molar will be removed and suture will be used for wound closure in odds and adhesive for evens. suture will be selected as a group control and adhesives will be compared with them. 6) main outcome measures: assessment of severity of pain, amount of bleeding and wound healing.

General information

Acronym

have not

IRCT registration information

IRCT registration number: **IRCT2015050722139N1**
Registration date: **2015-06-10, 1394/03/20**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-06-10, 1394/03/20

Registrant information

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Recruitment status

Recruitment complete

Funding source

The Expense of this thesis has been provided by the credit of the approved research project no. GP-93027 and all right of this thesis is reserved for Ahwaz Jondishapur University of Medical Sciences

Expected recruitment start date

2014-09-23, 1393/07/01

Expected recruitment end date

2015-01-21, 1393/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A clinical trial to compare suture vs. cyanoacrylate tissue glue for wound closure in mandibular third molars surgery

Public title

Tissue adhesives for surgical wound closures

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria: -After taking panoramic radiography

patients with impacted 3rd molar with mesioangular or vertical impaction, vertical class c pell & gregory and anterior posterior class 2 pell & gregory impaction were selected. -Patients must be younger than 25 years old -No systemic disease,no wound healing disruptive disease,no diabetes, no bleeding disorders -No history of anticoagulant medicines, no use of immunosuppressant drugs. -No history of smoking and drinking -No decays on 2nd molar

Age
From **19 years** old to **25 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **12**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Crossover

Other design features
Randomization: 12 samples will be assigned a unique number. The numbers are placed in a bowl and thoroughly mixed. Then, an unaware researcher selects n numbers. Population members having the selected numbers are included in the sample. for example, the first number is related to the person X and is considered as odd.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Ahvaz University of Medical Sciences

Street address
Jondishapur university of medical science

City
Ahvaz

Postal code
61357-15794

Approval date
2014-07-02, 1393/04/11

Ethics committee reference number
ajums.REC.1393.202

Health conditions studied

1

Description of health condition studied
Impacted teeth

ICD-10 code
K01

ICD-10 code description
embedded and impacted teeth with abnormal position of such teeth or adjacent teeth

Primary outcomes

1

Description
pain

Timepoint
1,2,3,5,7 days after surgery

Method of measurement
with pain visual analog scale questionnaire

2

Description
bleeding

Timepoint
1,2,3 days after surgery

Method of measurement
with bleeding questionnaire

3

Description
wound healing

Timepoint
first and second weeks after surgery

Method of measurement
oral and maxillofacial surgeon's view

Secondary outcomes

1

Description
patient comfort

Timepoint
first week after surgery

Method of measurement
according to patients' reports

2

Description
sensitivity of soft tissue

Timepoint
first and second weeks after surgery

Method of measurement
evaluated by oral and maxillofacial surgeon

Intervention groups

1

Description
using tissue adhesive 2 ethyl- cyanoacrylate(EPIGLU, Meyer-Haake Co. Germany) for wound closure in intervention group. adhesive was used according to package insert.
Category
Treatment - Surgery

2

Description
in group control suture was used for wound closure.Non absorbable Suture Silk 0/3 was used for wound closure.simple interrupted suture technique used to close wounds. (supasil-3\0 usp- non-absorbable suture-supa medical devices)
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center
Jondishapur faculty of dentistry
Full name of responsible person
doctor Omid Ghasemzadeh.Assistant Professor
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Department of Oral and Maxillofacial surgery of Ahvaz Dental School
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Ahvaz University of Medical Sciences
Full name of responsible person
Doctor seyyed Ahmad Hosseini
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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
Vice chancellor for research, Ahvaz University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty