

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 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 Jondishapur 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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Name of organization / entity

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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

Street address

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 seyed 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

Person responsible for general inquiries

Contact

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Web page address**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