Clinical Trial Protocol
Iranian Registry of Clinical Trials

05 Nov 2026

The effect of direct irrigation of the third molar surgery site in comparison with rinsing the mouth after surgery in reducing surgical complications including pain, swelling, infection and alveolar osteitis in case of bilateral wisdom teeth in the mandible

Protocol summary

Study aim
Reduction of surgical complications including pain, swelling, infection and alveolar osteitis and increasing patient ease after impacted wisdom tooth surgery

Design
Clinical trial with control group, with parallel groups, with no blinding, randomized, phase 2 on 20 patients. In each patient, allocating to intervention or control group is determined by throwing a coin

Settings and conduct
Implantable surgery is performed in Ahvaz Oral and Maxillofacial Surgery Department affiliated to Ahvaz Dental School and no blinding has been performed

Participants/Inclusion and exclusion criteria
Inclusion criteria: Systemically healthy patient; Obtain informed consent; Patients whose wisdom tooth surgery is indicated. Non-inclusion criterion: taking any antibiotics, anti-inflammatory or analgesic drugs in the last week before surgery

Intervention groups
The intervention group rinsed the site of the operated wisdom tooth with a syringe containing 0.2% chlorhexidine, but the control group rinsed their mouth with 0.2% chlorhexidine after wisdom tooth surgery

Main outcome variables
Pain; swelling; infection; alveolar osteitis

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20201231049900N1**
Registration date: **2021-07-14, 1400/04/23**
Registration timing: **retrospective**
Last update: **2021-07-14, 1400/04/23**
Update count: **0**

Registration date
2021-07-14, 1400/04/23

Registrant information

Name
Fatemeh Khosravi

Name of organization / entity

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Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2021-01-19, 1399/10/30

Expected recruitment end date
2021-03-17, 1399/12/27

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
The effect of direct irrigation of the third molar surgery site in comparison with rinsing the mouth after surgery in reducing surgical complications including pain, swelling, infection and alveolar osteitis in case of bilateral wisdom teeth in the mandible

Public title

Review the effect of direct irrigation after wisdom tooth surgery

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

All patients for whom bilateral mandibular impact wisdom tooth surgery is indicated The patient is systemically healthy obtain informed consent

Exclusion criteria:

Taking any anti inflammatory or analgesics drugs or antibiotics one week before surgery

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **20**

More than 1 sample in each individual

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

Study of two mandibular third molars in one patient

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are randomly selected individually and then identified in each patient, allocating to intervention or control group is determined by throwing a coinsurgery.

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 Ahvaz University of Medical Sciences

Street address

Esfand Ave, Golestan road, Ahvaz Town

City

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Province

Khouzestan

Postal code

6135853415

Approval date

2020-12-27, 1399/10/07

Ethics committee reference number

IR.AJUMS.REC.1399.779

Health conditions studied

1

Description of health condition studied

The wisdom tooth surgery

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The amount of pain after wisdom tooth surgery

Timepoint

One week after surgery

Method of measurement

Pain measurement based on Visual Analogue Scale

2

Description

The amount of swelling after wisdom tooth surgery

Timepoint

One week after surgery

Method of measurement

Based on three hypothetical plans (occlusal plan, the hypothepical lines is drawn 2cm forward and 2cm backward from the line perpendicular to the mandibular gonial notch plane)

3

Description

Infection occurrence one week after wisdom tooth surgery

Timepoint

One week after surgery

Method of measurement

Based on the observation of fever, sore throat and lymphadenopathy

4

Description

Alveolar osteitis occurrence after impacted wisdom tooth surgery

Timepoint

One week after surgery

Method of measurement

Based on the observation of empty dental socket without blood clots

Secondary outcomes

empty

Intervention groups

1

Description
Control group: The patient rinses his/her mouth with 0.2% chlorhexidine mouthwash (Iran najo co.) after 48 hours after surgery three times a day
Category
Treatment - Drugs

2

Description
Intervention group: the patient rinses the surgical site three times a day with a syringe containing chlorhexidine 0.2% (Iran najo co.) after 48 hours after surgery for one week
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Department of Surgery, School of Dentistry, Ahwaz Jundishapur University
Full name of responsible person
Milad Alikazemi
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Sponsors / Funding sources

1

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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
Ahvaz University of Medical Sciences
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
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Full name of responsible person
Milad Alikazemi
Position
Assistant Professor
Latest degree
Specialist
Other areas of specialty/work
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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
Not applicable

Data Dictionary
Not applicable