# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

08 Nov 2026

## Comparison between the effect of CHX 0.2% gel and Ozone gel on preventing dry socket after mandibular third molar surgery.(clinical trial, randomized, double blind)

## Protocol summary

**Summary**

The aim of this study was to compare the effect of two antibacterial gels, chlorhexidine 0.2% and ozone gel on prevention of dry socket and pain reduction after tooth extraction. Samples of this study were 90 healthy non-smoker men between the ages of 15-60 who referred for mandibular third molar surgery. Three groups of gel were encoded; 30 Syringes of chlorhexidine 0.2% gel, 30 ozone gel syringes and 30 placebo gel syringes (petroleum). Before surgery, the work process was explained to the patients and written consent was given to them. After each tooth extraction, the area was washed then the encoded gel was placed there and flap was sutured. Patients were followed during the first, third and seventh days after surgery and the area was evaluated for dry socket. At the same time, patients were given a Visual Analogue Scale for measuring pain every day.Finally, the three group datas were compared together.

## General information

**Acronym**

**IRCT registration information**

IRCT registration number: **IRCT2017082735916N1**
Registration date: **2017-09-28, 1396/07/06**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

**Registration date**

2017-09-28, 1396/07/06

**Registrant information**

**Name**

Parisa Kohani

**Name of organization / entity**

Qazvin University of Medical Sciences

**Country**

Iran (Islamic Republic of)

**Phone**

+98 28 3366 4931

**Email address**

p.kohani@qums.ac.ir

**Recruitment status**

**Recruitment complete**

**Funding source**

researchers paid the price themselves. patients paid the cost of surgery.

**Expected recruitment start date**

2016-08-21, 1395/05/31

**Expected recruitment end date**

2017-10-08, 1396/07/16

**Actual recruitment start date**

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Comparison between the effect of CHX 0.2% gel and Ozone gel on preventing dry socket after mandibular third molar surgery.(clinical trial, randomized, double blind)

**Public title**

Comparison between the effect of two antibacterial gels on reducing the incidence of dry socket after wisdom teeth surgery

**Purpose**

Prevention

**Inclusion/Exclusion criteria**

Inclusion criteria: man 15-60 years old; completely healthy in terms of systemic conditions (ASA I); at least

one mandibular third molar with moderate difficulty; able to filling VAS questionnaire. exclusion criteria: History of smoking; Taking systemic antibiotics or taking antibiotics over the last 24 hours; The length of the surgical time is more than thirty minutes; Having any history of allergies; History of gastric ulcer or any digestive problem; Not attending follow-up meetings. Use of any other drugs as post-surgical medication; Mental inability to give informed consent.

**Age**
From **15 years** old to **60 years** old

**Gender**
Male

**Phase**
N/A

**Groups that have been masked**
*No information*

**Sample size**
Target sample size: **90**

**Randomization (investigator's opinion)**
Randomized

**Randomization description**

**Blinding (investigator's opinion)**
Double blinded

**Blinding description**

**Placebo**
Used

**Assignment**
Parallel

**Other design features**

## Secondary Ids

empty

## Ethics committees

### 1

**Ethics committee**

**Name of ethics committee**
Qazvin University of Medical Sciences

**Street address**
Iran, Qazvin, Bahonar Boulvard, Qazvin University of Medical Sciences

**City**
Qazvin

**Postal code**

**Approval date**
2017-05-13, 1396/02/23

**Ethics committee reference number**
IR.QUMS.REC.1396.92

## Health conditions studied

### 1

**Description of health condition studied**
Dry Socket

**ICD-10 code**
K10.3

**ICD-10 code description**

## Primary outcomes

### 1

**Description**
Reducing the prevalevce of dry socket

**Timepoint**
third day after surgery (follow up)

**Method of measurement**
postoperative pain in and around the extraction site, which increases in severity at any time between 1 and 3 days after the extraction accompanied by a partially or totally disintegrated blood clot within the alveolar socket with or without halitosis. It has been identified with the scale of Has / has not happened.

### 2

**Description**
decreasing the Severity of pain

**Timepoint**
from 1st to 7th days after surgery

**Method of measurement**
according to the VAS questionare

## Secondary outcomes

### 1

**Description**
any side effects after using each gels.

**Timepoint**
during the first week after surgery

**Method of measurement**
patients had researcher's phone number to call if they had any problems or questions.

## Intervention groups

### 1

**Description**
Intevention group Ozone Gel(O3LIFE,India). used after surgery and irrigation of socket, up to filling the socket.

**Category**
Prevention

### 2

**Description**
Intevention group 0.2% Chlorhexidine gel (Periokin, Barcelona, Spain). used after surgery and irrigation of socket, up to filling the socket.

**Category**
Prevention

### 3

**Description**
control group vaseline(Petroleum Gel)(Sepidaj co, Iran)

used after surgery and irrigation of socket, up to filling the socket.

**Category**
Placebo

## Recruitment centers

**1**

**Recruitment center**

**Name of recruitment center**
Qazvin University of Medical Sciences, Dental School

**Full name of responsible person**
Parisa Kohani

**Street address**
Qazvin, Bahonar Boulvar,Qazvin University of Medical Sciences, Dental School

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## Sponsors / Funding sources

**1**

**Sponsor**

**Name of organization / entity**
Qazvin University of Medical Sciences

**Full name of responsible person**
Parisa Kohani

**Street address**
Qazvin,Bahonar Boulvard,Qazvin University of Medical Sciences.

**City**
Qazvin

**Grant name**

**Grant code / Reference number**

**Is the source of funding the same sponsor organization/entity?**
Yes

**Title of funding source**
Qazvin 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**

**Name of organization / entity**
Qazvin University of Medical Sciences

**Full name of responsible person**
Parisa Kohani

**Position**
Dentistry Student.

**Other areas of specialty/work**

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## Person responsible for scientific inquiries

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## Person responsible for updating data

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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*