

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Comparison the effect of aloe vera-containing gel-foam in preventing the occurrence of dry socket in patients requiring wisdom tooth extraction in the mandible

Protocol summary

Study aim

Evaluation of the effect of aloe vera containing gel-foams in preventing dry socket and controlling the bleeding

Design

Clinical trial with control group, with parallel groups, without blinding and not randomized, phase 3 per 100 patients

Settings and conduct

This study will be performed in the surgical department of Tabriz Dental School. 100 patients who refer for their wisdom tooth surgery (two wisdom teeth with similar conditions in the mandible) will be selected. One of the two wisdom teeth of the patient as a test group in which after extracting the aloe vera-containing gel-foam will be placed and the other teeth will be considered as a control and will removing normally without placing any substance. All patients will refer 3 and 7 days after surgery and will be evaluated for occurrence of dry socket.

Participants/Inclusion and exclusion criteria

100 men or women aged 18 to 35 with two wisdom teeth with similar conditions in the mandible without systemic or bone disease

Intervention groups

Intervention group (control group): One of the two wisdom teeth of the patient as a test group in which after extracting the aloe vera-containing gel-foam will be placed and the other teeth will be considered as a control and will removing normally without placing any substance.

Main outcome variables

Main outcome variable: The occurrence of dry socket

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200919048756N3**

Registration date: **2021-01-26, 1399/11/07**

Registration timing: **prospective**

Last update: **2021-01-26, 1399/11/07**

Update count: **0**

Registration date

2021-01-26, 1399/11/07

Registrant information

Name

Solmaz Maleki Dizaj

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 41 3335 3161

Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-04-04, 1400/01/15

Expected recruitment end date

2022-03-06, 1400/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of aloe vera-containing gel-foam in preventing the occurrence of dry socket in patients

requiring wisdom tooth extraction in the mandible

Public title

The effect of aloe vera-containing gel-foam in dry socket prevention

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

Having two wisdom teeth with similar position in the mandible

Exclusion criteria:

Having systemic and skeletal disease, smoking, using any types of drugs, pregnant women

Age

From **18 years** old to **35 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **100**

More than 1 sample in each individual

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

On the control side, the teeth are removed normally and on the opposite side (test), after the tooth is extracted, the aloe vera containing gelfoams will be inserted.

Randomization (investigator's opinion)

N/A

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 Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, Daneshgah Ave, Golgasht Blvd, Tabriz.

City

Tabriz

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East Azarbaijan

Postal code

5166614711

Approval date

2020-07-14, 1399/04/24

Ethics committee reference number

IR.TBZMED.REC.1399.865

Health conditions studied**1****Description of health condition studied**

Occurrence of dry socket after wisdom tooth extraction

ICD-10 code

M27.3

ICD-10 code description

Alveolitis of jaws

Primary outcomes**1****Description**

Occurrence of dry socket

Timepoint

3 and 7 days after tooth extraction

Method of measurement

Asking the patients about the pain, observing the dental extraction site to check for incidence or absence of dry socket

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: Aloe vera powder-containing gel-foam (8 mg)

Category

Treatment - Drugs

2**Description**

Control group: Routine treatment

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Tabriz University of Medical Sci

Full name of responsible person

Mohammad Ali Ghavimi

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Sponsors / Funding sources

1

Sponsor

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Full name of responsible person

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research-vice@tbzmed.ac.ir

Web page address

<https://researchvice.tbzmed.ac.ir/>

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tabriz 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

Tabriz University of Medical Sciences

Full name of responsible person

Mohammad Ali Ghavimi

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

It will be published as a Persian and English article.

When the data will become available and for how long

From the time of publication of the articles onwards.

To whom data/document is available

public

Under which criteria data/document could be used

For use in studies with detailed citations.

From where data/document is obtainable

Dr., Solmaz Maleki

What processes are involved for a request to access data/document

It can be by sending an email or visiting.

Comments