

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

The effect of two types of envelope and modified triangular flap in the prevention of dry socket after mandibular third molar surgery.

Protocol summary

2014-06-17, 1393/03/27

Summary

Introduction: Impacted Third molar surgery is often associated with postoperative complications such as pain, swelling, trismus and dry socket. As the flap design is one of the factors that affect the severity of these unwanted effects, therefore, this study designed to evaluate the influence of modified triangular flap in comparison with envelop flap on dry socket, in patients referring to the department of oral & maxillofacial surgery of Yazd dental school in 1392. Materials and Methods : This clinical-trial, double-blind, prospective study was accomplished on 30 patients (60 samples) referring to the oral and maxillofacial department of Yazd dental school in 1392 who were candidates for extraction of bilaterally impacted lower third molars with the same difficulty; no associated pathology; the plaque index score lower than 20%; no use of any antibiotics or anti-inflammatory drugs within 14 days before surgery and root formation between 1/3 to 2/3. The patients with a history of systemic disease; pregnancy; milking period or a history of dry socket; deep bony impaction of lower third molars; smoking; use of oral contraceptive tablets and patients with immunocompromised state were excluded from the study. The influence of modified triangular flap and envelop flap on dry socket was evaluated and recorded in the seventh day after surgery.

Registrant information

Name

Sahebe Talebi Banizi

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 35 1825 2484

Email address

sahebatalebi@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2013-06-30, 1392/04/09

Expected recruitment end date

2014-06-30, 1393/04/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of two types of envelope and modified triangular flap in the prevention of dry socket after mandibular third molar surgery.

Public title

Evaluation of side effects of two types of flap after impacted mandibular third molar surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: bilateral impacted mandibular third

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014052717863N2**

Registration date: **2014-06-17, 1393/03/27**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

molar teeth with equal location in the jaw; no associated pathology; the plaque index score lower than 20%; no use of any antibiotics or anti-inflammatory drugs within 14 days before surgery; root formation between 1/3 to 2/3. Exclusion criteria: Patients with a history of systemic disease; pregnancy; milking period or a history of dry socket; deep bony impaction of lower third molars; poor oral hygiene; recent history of pericoronitis; ulcerative gingivitis or active infection associated with the extracted tooth; smoking; oral contraceptive tablet use and immunocompromised patients.

Age

From **18 years** old to **34 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shahid Sadoughi University of Medical Science

Street address

central organization, Shahid Bahonar square

City

Yazd

Postal code

Approval date

2013-03-13, 1391/12/23

Ethics committee reference number

2926

Health conditions studied

1

Description of health condition studied

dry socket

ICD-10 code

K10.3

ICD-10 code description

Alveolitis of jaws

Primary outcomes

1

Description

dry socket

Timepoint

after seven days

Method of measurement

clinical

Secondary outcomes

empty

Intervention groups

1

Description

In an intervention group, modified triangular flap was used the presence of dry socket was evaluated after 7 days from the surgery.

Category

Treatment - Surgery

2

Description

In a control group, modified triangular flap was used the presence of dry socket was evaluated after 7 days from the surgery

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Department of oral and maxillofacial surgery of Shahid Sadoughi Yazd dental school

Full name of responsible person

Sahebe Talebi Banizi

Street address

Emam Reza Blv

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Sadoughi University of Medical Science

Full name of responsible person

Fateme Ezoddini

Street address

Central Organization, Bahonar square

City

Yazd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahid Sadoughi University of Medical Science

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

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Sahebe Talebi Banizi

Position

dental student

Other areas of specialty/work

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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