Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effect of Honey on surgical wound healing of impacted mandibular third molar surgery

Protocol summary

Summary

Object: Decreasing the recovery period after surgical removal of impacted third molar by decreasing the postoperative complications such as swelling, lockjaw……. Inclusion/Exclusion criteria: Any candidate for mandibular third molar removal via surgery enrolled in this study and the ones with history of systemic diseases were excluded. Study sample and sample size: Total 106 patients both male and female enrolled in this double blind study. Intervention and time of study: The Selected patients are randomly divided into two groups. Same Surgical procedure is carried out for all patients by a single surgeon but only we apply honey in some stages of surgery such as irrigation, suturing and dressing for control group. This study is done in 2015-2016. Primary outcomes: Patients would be recalled 3rd and 10th days after surgery to evaluate the postoperative complications which are as follows: based on clinical examination (comparing 2 sides of patient's face/intraoral examination to check the presence of infection via foul-smelling odor and swelling In the gingiva around the surgical field, Difficulty opening the mouth or fever, dry socket) and visual analog scale and number of pain relief tablets (used for pain) we check the patient's mouth extension and measured maximum interincisal opening while opening his/her mouth to record presence of lockjaw. Swelling is checked by tape measuring method.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015072923401N1**
Registration date: **2016-04-18, 1395/01/30**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2016-04-18, 1395/01/30

Registrant information

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Name of organization / entity
Kerman University of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

Kurdistan University of Medical Sciences

Expected recruitment start date

2014-09-23, 1393/07/01

Expected recruitment end date

2015-03-21, 1394/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Honey on surgical wound healing of impacted mandibular third molar surgery

Public title

Honey effect on third molar surgery

Purpose

Treatment

Inclusion/Exclusion criteria

exclusion criteria: all patients with the history of: Any systemic disease; any allergic to drugs or anesthetic

agent used in our surgical procedure; smokers; and patients with poor oral hygiene followed by clinical examination. inclusion criteria: any candidates for mandibular third molar removal via surgery based on orthopantograph image who were healthy proved by medical history.

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **106**

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
Research Center of Kurdistan University of Medical Sciences

Street address
Research Center,Kurdistan University of Mecial Sciences, opposite of Shadi hotel, Pasdaran st, Sanandaj, Kurdestan, Iran.

City
Sanandaj

Postal code
6618634683

Approval date
2014-09-23, 1393/07/01

Ethics committee reference number
34/821536

Health conditions studied

1

Description of health condition studied
impacted third molar surgery

ICD-10 code
K01.1

ICD-10 code description
Impacted teeth

Primary outcomes

1

Description
wound healing

Timepoint
2nd and 10th days after surgery

Method of measurement
visual analog scale

Secondary outcomes

1

Description
pain

Timepoint
2nd and 10th days after surgery

Method of measurement
number of taken pain relief tablets

Intervention groups

1

Description
The Selected patients were randomly divided into two groups. Same Surgical procedure was carried out for all patients by single surgeon. They were anesthetized using Persocaine-E (lingocaeine 1:200000 with Adrenaline, made inDarupakhsh Company, Iran) via classical Inferior alveolar nerve block, lingual nerve block and long buccal nerve block. Full thickness incision was made to prepare modified triangle flap, tooth was sectioned, loosened and removed by elevator. After extraction, curettage and simple alvoeloplasty was done plus irrigation with 20ml NaCl in control group and simple dressing

Category
Treatment - Drugs

2

Description
The Selected patients were randomly divided into two groups. Same Surgical procedure was carried out for all patients by single surgeon. They were anesthetized using Persocaine-E (lingocaeine 1:200000 with Adrenaline, made inDarupakhsh Company, Iran) via classical Inferior alveolar nerve block, lingual nerve block and long buccal nerve block. Full thickness incision was made to prepare modified triangle flap, tooth was sectioned, loosened and removed by elevator. then irrigation with diluted honey with NACl and applying honey dressing

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Arian Dental Clinic
Full name of responsible person
Ensi Kolyaei
Street address
City
Kermanshah

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Kurdistan University of Medical Sciences
Full name of responsible person
Ebrahim Ghaderi
Street address
Pasdaran boulevard
City
Sanandaj
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Kurdistan 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
oral surgery department
Full name of responsible person
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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