

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Comparison of Post Operative Complications with and without Use of Kinesio Tape in Patients Undergoing Surgical Removal Of Impacted Mandibular Third Molars

Protocol summary

Study aim

To compare the efficacy of Kinesio Taping after Mandibular 3rd Molar Extraction in terms of Post Op Swelling And Trismus

Design

A simple randomized controlled clinical trial with a parallel group design of 154 patients, enrolled between October 2023 and January 2024 and followed for one week after the enrollment of last patient.

Settings and conduct

Trail will be performed in Oral and Maxillofacial Surgery Department of AFID. Two groups will be made by simple randomization of patients getting surgical removal of Mandibular third Molars. One group (intervention) will get K taping done post operatively in addition to normal post operative care and second group (control) will have usual post operative care.

Participants/Inclusion and exclusion criteria

Inclusion Criteria Having physical status 1 according to ASA classification Surgical extraction in mandibular third molars. Teeth which score ≥ 5 on Pederson's difficulty index for removal of impacted third molars EXCLUSION CRITERIA Patients having beard or any other hindrance in application of K- TAPE Patient with odontogenic infection Patient with medications that can alter pain perception. Teeth which score < 5 on Pederson's difficulty index for removal of impacted third molars

Intervention groups

Kinesio Taping will be performed in one group after 3rd Molar Extraction and No intervention will be performed in other group after 3rd Molar Extraction

Main outcome variables

Post Operative Swelling Post Operative Trismus

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230926059527N3**

Registration date: **2023-10-01, 1402/07/09**

Registration timing: **prospective**

Last update: **2023-10-01, 1402/07/09**

Update count: **0**

Registration date

2023-10-01, 1402/07/09

Registrant information

Name

AMMAR Yasir

Name of organization / entity

Armed Forces Institute of Dentistry

Country

Pakistan

Phone

+92 346 7330822

Email address

seirraalphayankee@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-10-07, 1402/07/15

Expected recruitment end date

2024-01-07, 1402/10/17

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Post Operative Complications with and without Use of Kinesio Tape in Patients Undergoing Surgical Removal Of Impacted Mandibular Third Molars

Public title

Effects of Kinesio Taping after Third Mandibular Molar Surgical Extraction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Having physical status 1 according to ASA classification
Surgical extraction performed in mandibular third molars. Teeth which score ≥ 5 on Petersons difficulty index for removal of impacted third molars

Exclusion criteria:

Patients having beard or any other hindrance in application of K- TAPE
Pregnant women, nursing mothers, smokers
Patient with odontogenic infection
Patient with medications that can alter pain perception
Non surgical extraction. Extraction performed in upper arch or anterior mandibular region. Teeth with 0.5 mm or more mobility in any direction. Teeth which score < 5 on Pedersons difficulty index for removal of impacted third molars

Age

From **18 years** old to **45 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **154**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization was performed by using lottery method (Patients with even number chits were placed in one group and with odd number chits in the second group). Allocation concealment was done using folded chits. Patients in first group got Kinesio Taping in addition to usual post op care after third molar extraction and patients in second group got normal post Op Care after mandibular third molar extraction.

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

Ethical Committee of AFID

Street address

AFID CMH Rawalpindi

City

Rawalpindi

Postal code

46000

Approval date

2022-04-02, 1401/01/13

Ethics committee reference number

918/Trg Dated 13 May 2020

Health conditions studied

1

Description of health condition studied

Impacted Mandibular 3rd Molar

ICD-10 code

K01.1

ICD-10 code description

Impacted teeth

Primary outcomes

1

Description

Post Op Swelling & Trismus

Timepoint

3th and 5th Day after intervention

Method of measurement

Post op swelling will be recorded in millimeters, from specific points already demarcated in the facial region and Trismus will be measured in millimeters

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Kinesio Taping in addition to usual care will be performed in this group after surgical removal of the mandibular third molar. Tape will be left in place for 5 days and Post Operative swelling and trismus will be observed on 3th and 5th day

Category

Treatment - Devices

2

Description

Control group: Usual Care Group. Only usual care will be performed after surgical extraction of mandibular third

molar. Post Operative swelling and trismus will be observed on 3th and 5th day.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

AFID

Full name of responsible person

Syed Ammar Yasir

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AFID, CMH Rawalpindi

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seirraalphayankee@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

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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

AFID

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

Armed Forces Institute of Dentistry

Full name of responsible person

Ammar Yasir

Position

Specialty Resident

Latest degree

Medical doctor

Other areas of specialty/work

Oral and Maxillofacial Surgery

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Person responsible for updating data

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no Further Information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available