

# Application of kinesio tape using web strip technique after wisdom tooth extraction

<b>Submission date</b> 09/06/2024	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 12/06/2024	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 31/07/2025	<b>Condition category</b> Oral Health	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

There are various methods to improve the patient's quality of life and alleviate complications after surgical extraction of the lower third molars (wisdom teeth). The aim of this study is to evaluate the effectiveness of Kinesio tape using the web strip technique in alleviating complications after surgical extraction of the lower third molar compared to cold packs.

### Who can participate?

Patients aged 18-35 years after surgical extraction of the lower third molar

### What does the study involve?

Participants underwent surgical extraction of impacted wisdom teeth (two teeth for each patient with a 4-week period between the two surgical extractions). Each surgical extraction takes 20-40 minutes. On one side Kinesio Tape was applied using the web strip technique, while cold packs were applied on the other side.

### What are the possible benefits and risks of participating?

The possible benefits are decreased pain, edema (swelling) and trismus (lockjaw), and increased quality of life. There are no risks after the application of Kinesio tape.

### Where is the study run from?

Damascus University (Syria)

### When is the study starting and how long is it expected to run for?

September 2021 to June 2023

### Who is funding the study?

Damascus University (Syria)

### Who is the main contact?

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## Contact information

**Type(s)**

Public, Scientific, Principal investigator

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**Additional identifiers****Protocol serial number**

DN-290424-230

**Study information****Scientific Title**

Evaluation of the use of kinesio tape in web strip technique efficacy to reduce the sequelae comparing with cryotherapy after impacted third molar extraction: a randomized clinical split-mouth study

**Study objectives**

Null Hypothesis: There is no difference between the use of Kinesio Tape and cryotherapy on pain after surgery between the groups.

Alternative Hypothesis: There is a difference between the use of Kinesio Tape and cryotherapy on pain after surgery between the groups.

**Ethics approval required**

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**Ethics approval(s)**

approved 27/09/2021, Scientific Research and Postgraduate Studies Council (Baramkeh, Damascus, 34567, Syria; +963 (0)1133923192; [ap.srd@damascusuniversity.edu.sy](mailto:ap.srd@damascusuniversity.edu.sy)), ref: DN-290424-230

**Study design**

Randomized controlled clinical study using the split-mouth technique

**Primary study design**

Interventional

## **Study type(s)**

Treatment

## **Health condition(s) or problem(s) studied**

Complications after surgical extraction of lower third molars

## **Interventions**

The intervention was a surgical extraction of impacted wisdom teeth (two teeth for each patient with a 4-week period between the two surgical extractions). Each surgical extraction takes 20-40 minutes. On one side Kinesio tape was applied using the web strip technique, while cryotherapy (cold packs) was applied on the other side.

## **Intervention Type**

Procedure/Surgery

## **Primary outcome(s)**

1. Pain measured using a visual analogue scale (VAS) on the 1st, 2nd, 3rd, 4th and 5th days after the surgery
2. Patient's maximum possible mouth opening measured using a millimeter measuring tool (Piacolis) before surgery and on the third and fifth days after surgery to evaluate trismus
3. Facial swelling evaluated using a millimeter measuring tool by measuring the lengths of four lines between four fixed anatomical points on the face preoperatively and on the third and fifth postoperative days

## **Key secondary outcome(s)**

1. Severity of postoperative symptoms measured using a questionnaire based on the Post-operative Symptom Severity Scale (PoSSe) on the 7th day after surgery
2. Pain evaluated by recording the number of consumed analgesic pills daily on the 1st, 2nd, 3rd, 4th and 5th days after the surgery

## **Completion date**

01/06/2023

# **Eligibility**

## **Key inclusion criteria**

1. Aged 18-35 years
2. The duration of the surgical extraction of the lower third molar was 20-40 minutes
3. Good oral and systematic hygiene
4. No temporomandibular joint disorders
5. No symptoms of pericoronitis or severe pain before surgery

## **Participant type(s)**

Patient

## **Healthy volunteers allowed**

No

## **Age group**

Adult

**Lower age limit**

18 years

**Upper age limit**

35 years

**Sex**

All

**Total final enrolment**

25

**Key exclusion criteria**

1. Patients with pericoronitis and symptoms of acute pain before surgery
2. Patients who are allergic to the adhesive tape material and the medications used in the research
3. Patients who have thick hair where the material is applied and do not wish to shave it
4. The duration of the surgical procedure is less than 20 or more than 40 minutes
5. Smoking patients
6. Uncontrolled systemic diseases
7. Pregnant and lactating women
8. Poor oral hygiene
9. Patients with temporomandibular joint disorders

**Date of first enrolment**

01/02/2022

**Date of final enrolment**

01/01/2023

**Locations****Countries of recruitment**

Syria

**Study participating centre**

**Damascus University**

Faculty of Dentistry

Damascus

Syria

56789

**Sponsor information****Organisation**

Damascus University

ROR

<https://ror.org/03m098d13>

## Funder(s)

**Funder type**

University/education

**Funder Name**

Damascus University

**Alternative Name(s)**

University of Damascus, , DU

**Funding Body Type**

Government organisation

**Funding Body Subtype**

Universities (academic only)

**Location**

Syria

## Results and Publications

**Individual participant data (IPD) sharing plan**

The data-sharing plans for the current study are unknown and will be made available at a later date

**IPD sharing plan summary**

Data sharing statement to be made available at a later date

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>		09/08/2024	31/07/2025	Yes	No
<a href="#">Results article</a>	pain and analgesic consumption	12/02/2025	31/07/2025	Yes	No