Damascus University (Syria)

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Who is the main contact? Dr Aisha Sayed Taha

Removing an abnormal maxillary labial frenum (a small band of tissue that connects the upper lip to the gums) using a scalpel and laser

Submission date 09/11/2023	Recruitment status No longer recruiting	Prospectively registered
		<pre>Protocol</pre>
Registration date 13/11/2023	Overall study status Completed	Statistical analysis plan
		Results
Last Edited 13/11/2023	Condition category Oral Health	Individual participant data
		Record updated in last year
Plain English summary of protocol Background and study aims The frenum is a fold in the mucous membrane that connects the lip and the cheek to the tissues around the upper teeth. When these folds, called frena, are too closely attached to the gum line it can potentially impact gum health. This can happen due to issues like difficulty in cleaning plaque or tension from muscle pull. The aim of this study is to evaluate the pain and reinsertion of the frenum following conditional and laser assisted treatment in patients with abnormal upper labial frenum. Who can participate? Patients aged 15 years and over with abnormal upper labial frenum What does the study involve? Frenectomy with classical surgery and laser surgery and follow up for 3 months What are the possible benefits and risks of participating? Decrease the pain and promote the healing of the wounds and make the patients more comfort The methods are safe and there are no expected risks. Where is the study run from?		
Damascus University (Syria)		
When is the study starting and how long is it expected to run for? January 2021 to November 2023		
Who is funding the study?		

Contact information

Type(s)

Public, Scientific, Principal Investigator

Contact name

Dr Aisha Sayed Taha

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Contact details

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

Nil known

Secondary identifying numbers

21/S.M

Study information

Scientific Title

A comparative clinical study between conventional surgical technique and different types of laser for frenectomy procedure

Study objectives

There is no difference between laser assisted technique and conventional technique for Frenectomy

Ethics approval required

Ethics approval required

Ethics approval(s)

Approved 04/01/2021, Scientific Research and Postgraduate Studies Council (Baramkeh, Damascus, -, Syria; +963 (0)1133923192; ap.srd@damascusuniversity.edu.sy), ref: None provided

Study design

Interventional randomized controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

University/medical school/dental school

Study type(s)

Treatment

Participant information sheet

No participant information sheet available

Health condition(s) or problem(s) studied

Frenectomy in patients with abnormal labial frenum

Interventions

In this study, individuals with abnormal maxillary labial frenum were randomly treated with a conventional technique and different types of laser. Clinical measurements will be taken every month during the 3-month follow-up period.

1st group: conventional surgical technique

2nd group: conventional surgical technique followed by application diode laser 808nm for

photobiomodulation

3rd group: laser Er:YAG for surgery

4th group: laser Diode 810nm for surgery

Follow up after one week, one month, 3months

Randomization by website:

www.random.org

Intervention Type

Procedure/Surgery

Primary outcome measure

Pain is measured using a numerical scale (NS) at baseline, 24, 48, and 72 h.

Secondary outcome measures

- 1. Reepithelialization assessment by H2O2 after one week, two weeks, three weeks, 1 month, 3 months.
- 2. Reinsertion of the frenum by UNC15 probe after 1 month, 3 months.

Overall study start date

05/01/2021

Completion date

05/11/2023

Eligibility

Key inclusion criteria

- 1. Systemically healthy
- 2. Non smoker
- 3. Between 15 and 55 years old
- 4. Not received any periodontal treatment within the last 3 months
- 5. Presence of at least central incisors, lateral incisors, and canines at the maxilla
- 6. Consent to participate in the study

Participant type(s)

Patient

Age group

Adult

Lower age limit

15 Years

Upper age limit

55 Years

Sex

Both

Target number of participants

4 groups, 10 patient in each group

Total final enrolment

40

Key exclusion criteria

- 1. Any systematic disease that might interfere with wound healing process (i.e., diabetes mellitus and HIV infection)
- 2. Smoking
- 3. Antibiotics, anti-inflammatory drugs, or any other medication taken within the last 6 months that might affect the outcome of the study
- 4. Any hypersensitivity reactions against to paracetamol
- 5. Any physical limitations or restrictions that might preclude normal oral hygiene procedures

Date of first enrolment

01/10/2021

Date of final enrolment

05/08/2023

Locations

Countries of recruitment

Syria

Study participating centre Damascus University

Department of Periodontology Faculty of Dentistry Mezzah Damascus Syria

Study participating centre Damascus University

High institute for Laser researches and applications Faculty of mechanical and electrical engineering Airport road Damascus Syria

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Sponsor information

Organisation

Damascus University

Sponsor details

Albaramkeh Damascus Syria

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+963 (0)1133923192 info@damascusuniversity.edu.sy

Sponsor type

University/education

Website

http://damasuniv.edu.sy/

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

Publication and dissemination plan

Planned publication in a high-impact peer-reviewed journal

Intention to publish date

30/12/2023

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from Prof. Dr Wael Almahdi (w.almahdi76@gmail.com). All of data of the patients will be available on request.

Consent from participants was obtained.

IPD sharing plan summary

Available on request