# Evaluation of Gelclair® (intraoral gel) application after the surgical removal of black unaesthetic gum

Submission date	Recruitment status	<ul><li>Prospectively registered</li></ul>
11/11/2022	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
13/01/2023	Completed	Results
Last Edited	Condition category	Individual participant data
13/01/2023	Oral Health	<ul><li>Record updated in last year</li></ul>

#### Plain English summary of protocol

Background and study aims

Black-coloured gums (gingival pigmentation) are a huge aesthetic concern for many individuals, especially for those who have more visible gums during smiling. The gold standard to remove this pigmentation is using a surgical blade which causes an open wound that requires management to prevent pain and infection through applying a protective dressing. The traditional dressing (COE-PAK) has many downsides as it is unstable, unaesthetic and does not promote healing. Gelclair is a therapeutic gel that can be used for healing oral mucosa inflammation after the treatment of gingival pigmentation. For patients with gingival pigmentation, this study aims to assess the effect of Gelclair in comparison to a traditional gingival dressing (COE-PAK) at improving soft tissue healing after the treatment.

Who can participate?

Healthy adults with gingival pigmentation

What does the study involve?

This study involves using surgical treatment of gingival pigmentation using a blade and applying a COE-PAK dressing on one side and Gelclair on the other side.

What are the possible benefits and risks of participating?

Gingival depigmentation can provide the desired aesthetic outcome but may cause some pain and discomfort. Using Gelclair may reduce pain and promote healing after surgical gingival depigmentation.

Where is the study run from? Damascus University (Syria)

When is the study starting and how long is it expected to run for? March 2021 to December 2022

Who is funding the study? Investigator initiated and funded

Who is the main contact? Dr Lynn Amasha Lynn.Amasha@gmail.com

# **Contact information**

#### Type(s)

Principal Investigator

#### Contact name

Dr Lynn Amasha

#### **ORCID ID**

https://orcid.org/0000-0002-1405-1998

#### Contact details

Jaramana Ghassan Kanafany Street Damascus Syria 0000 +963 (0)949382544 lynn.amasha@gmail.com

# Additional identifiers

## EudraCT/CTIS number

Nil known

IRAS number

# ClinicalTrials.gov number

Nil known

# Secondary identifying numbers

1

# Study information

#### Scientific Title

Efficiency evaluation of applying sodium hyaluronate postoperative surgical gingival depigmentation

# Study objectives

Gingival pigmentation is considered a main common aesthetic concern. Gingival depigmentation procedures can cause pain and discomfort for patients. Gelclair® is a pharmacological material

that is used to manage pain and reduce the healing period for mucositis patients after cancer therapy. This study is designed to evaluate the role of applying Gelclair® in reducing pain and healing time postsurgical depigmentation.

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

This study is registered at Damascus University in order to get a Master's degree in periodontology. This study did not require ethical approval because the treatment provided is considered a basic treatment for gingival pigmentation and the material used is internationally validated. However, ethical approval is now available.

Approved 01/06/2022, the Medical Trial Ethics Council (MTEC) in Damascus University (PO Box 30621, Damascus, Syria; +963 (11) 339 23223; dl.srd@damascusuniversity.edu.sy), ref: DN-01062022-5

#### Study design

Interventional split-mouth randomized controlled trial

#### Primary study design

Interventional

#### Secondary study design

Randomised controlled trial

#### Study setting(s)

Hospital

#### Study type(s)

Treatment

#### Participant information sheet

Not available in web format, please use the contact details to request a participant information sheet

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

Reducing pain and healing time after surgical gingival depigmentation

#### Interventions

Randomization takes place through the "flip of a coin" method. The first time is to determine the treatment that will take place in the first week (test or control group), and the second time is to determine the side of the maxilla that will be treated first (since this is a split-mouth study).

The study contains two groups: The test group: Gelclair dressing The control group: Coe-Pak dressing

Day 1: removal of the gingival pigmentation of one side of the maxilla. Using a shaving motion, a number 15 blade is used to depigment the gingiva. Then a gingival dressing is applied (either Gelclair or Coe-Pak). The patient is provided with a sheet of paper that contains an assessment

for the degree of pain (using Visual Analog Scale [VAS]) to record the pain at 2 and 24 hours, and 2, 3, 4, 5, 6, and 7 days after the surgery.

Note: Gelclair is applied locally after the surgery, and then the patient is instructed to apply the gel four times daily for 1 week. On the other hand, Coe-Pak dressing is applied after the surgery and removed after 1 week.

After 1 week: the surgical removal of the pigmentation will be performed on the other side. Then the other gingival dressing is applied.

This study contains three indices for each study group:

- 1. Wound Healing Index: after 1, 2, 3, and 4 weeks of the surgery
- 2. Epithelialization test: after 1, 2, 3, and 4 weeks of the surgery
- 3. Pain Index: 2 and 24 hours and 2, 3, 4, 5, 6, and 7 days after the surgery

#### Intervention Type

Procedure/Surgery

#### Primary outcome measure

Healing of the soft tissues measured using the Wound Healing Index at the first, second, third, and fourth weeks

#### Secondary outcome measures

- 1. Epithelization formation measured using the Epithelization test at the first, second, third, and fourth weeks
- 2. Pain measured using a visual analogue scale (VAS) after the anaesthetic effect and every day for a week

#### Overall study start date

01/03/2021

#### Completion date

01/12/2022

# Eligibility

#### Key inclusion criteria

- 1. Class II or III of Hedin's index of gingival pigmentation
- 2. The absence of any periodontal infliction
- 3. Good width of attached gingiva
- 4. The absence of systemic diseases

#### Participant type(s)

Patient

#### Age group

Adult

#### Sex

Both

## Target number of participants

12

#### Total final enrolment

12

#### Key exclusion criteria

- 1. Gingival pigmentation as a manifestation of systemic diseases
- 2. Gingival pigmentation as a side effect of medication consumption
- 3. Systemic diseases that interfere with the healing of periodontal tissues (diabetes, hyperparathyroidism, etc)
- 4. Life-threatening diseases
- 5. Periodontal disease
- 6. Pregnancy or breastfeeding
- 7. Smokers
- 8. Patients who showed no sign of corporation in terms of good oral hygiene
- 9. Radiation therapy
- 10. Alcoholics
- 11. Drugs that interfere with periodontal healing

#### Date of first enrolment

01/11/2021

#### Date of final enrolment

01/07/2022

# Locations

#### Countries of recruitment

Syria

# Study participating centre

#### **Damascus University**

Faculty of Dental Medicine Periodontology Department PO Box 30621 Damascus Syria 0000

# Sponsor information

#### Organisation

**Damascus University** 

#### Sponsor details

PO Box 30621 Damascus Syria 0000 +963 (0)11 339 23223 dl.srd@damascusuniversity.edu.sy

#### Sponsor type

University/education

#### Website

http://damasuniv.edu.sy/

#### **ROR**

https://ror.org/03m098d13

# Funder(s)

## Funder type

Other

#### **Funder Name**

Investigator initiated and funded

# **Results and Publications**

#### Publication and dissemination plan

Planned publication in a high-impact peer-reviewed journal

# Intention to publish date

01/03/2023

# Individual participant data (IPD) sharing plan

The datasets generated and/or analysed during the current study will be published as a supplement to the subsequent results publication.

# IPD sharing plan summary

Published as a supplement to the results publication