

# Rosehip seed oil after CO2 laser for the management of facial scars

<b>Submission date</b> 19/11/2024	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 26/11/2024	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 26/11/2024	<b>Condition category</b> Skin and Connective Tissue Diseases	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Facial scars are a serious post-surgical complication that needs the attention of the health care system. This type of scars can affect the quality of life and self-esteem of the patient. Therefore, the aim of this study is to evaluate the effectiveness of using rosehip seed oil in the management of facial scars after surgical interventions.

### Who can participate?

Adults aged 18 years or older who have a fresh post-surgical facial scar

### What does the study involve?

The patients will be randomly assigned to one of the two intervention groups: the silicon cream group or the rosehip seed oil group. Both groups will receive fractional CO2 laser therapy for the management of post-surgical facial scars.

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

This study will determine the effectiveness of using rosehip seed oil in the management of facial scars. There is a risk of not achieving optimal results in some cases but the study team can manage these cases with alternative methods.

### Where is the study run from?

Damascus University (Syria)

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

January 2024 to November 2024

### Who is funding the study?

Damascus University (Syria)

### Who is the main contact?

Dr Kamar Zwada (zwadakamar@gmail.com)

## Contact information

**Type(s)**

Public, Scientific, Principal investigator

**Contact name**

Dr Kamar Zwada

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**Additional identifiers****Clinical Trials Information System (CTIS)**

Nil known

**ClinicalTrials.gov (NCT)**

Nil known

**Protocol serial number**

Nil known

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

A comparison between silicone cream and rosehip seed oil after the application of fractional CO2 laser in the management of post-surgical facial scars

**Study objectives**

Is there a significant statistical difference between the use of rosehip seed oil and silicon cream after the use of CO2 laser in the management of post-surgical facial scars?

**Ethics approval required**

Ethics approval required

**Ethics approval(s)**

approved 22/01/2024, Damascus University Ethics Committee (Damascus, Syria, Damascus, 0000, Syria; +963 (0)113341864; manager@hcsr.gov.sy), ref: 22457

**Study design**

Comparative interventional randomized controlled study

**Primary study design**

Interventional

**Study type(s)**

Quality of life, Treatment

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

Facial scar management

## **Interventions**

Randomization process: sealed envelope randomization method.

Protocol and duration of the treatments:

The patients were randomly assigned to one of the two study groups: the control group (silicon cream) and the test group (rosehip seed oil). All patients followed the same protocol, differing only at the final stage. The treatment involved applying a CO2 fractional laser to the scar tissue on the face.

Control group (silicon cream): silicon cream was applied to the scar in a thin layer.

Test group (rosehip seed oil): 2-3 drops of rosehip seed oil were applied to the scar and spread to cover the entire area.

After applying both treatments, an ice bag was used to cool the treated area. Patients in the control group were instructed to apply the silicon cream twice a day for 3 months, while patients in the test group were instructed to apply 2-3 drops of rosehip seed oil to the scar twice a day for 3 months. The fractional laser treatment was reapplied once a month for 3 months.

Follow-up: The follow-up session for all patients was scheduled 1 month after the last laser application session.

## **Intervention Type**

Procedure/Surgery

## **Primary outcome(s)**

Scar healing measured using the Vancouver Scar Scale (VSS) to evaluate the pigmentation, elasticity, and height of the scar, evaluated before the treatment and after 4 months

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

Patient satisfaction measured using a five-point Likert scale at 4 months after the procedure

## **Completion date**

01/11/2024

## **Eligibility**

### **Key inclusion criteria**

1. Patients are at least 18 years old
2. Fresh atrophic post-surgical facial scar

### **Participant type(s)**

Healthy volunteer

### **Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Upper age limit**

45 years

**Sex**

All

**Total final enrolment**

20

**Key exclusion criteria**

1. Matured facial scars (3 months after its formation)
2. Facial scars not caused by facial surgery
3. Patients underwent treatment with retinoid in the last 6 months

**Date of first enrolment**

01/02/2024

**Date of final enrolment**

01/05/2024

## **Locations**

**Countries of recruitment**

Syria

**Study participating centre**

**Damascus University**

Damascus

Syria

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## **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 datasets generated during and/or analyzed during the current study will be available on request from Dr Kamar Zwada (zwadakamar@gmail.com) and in the publication related to it after the end of the research.

### **IPD sharing plan summary**

Available on request