

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 May 2026

Evaluation of the efficacy of the co2 fractional laser on the treatment of dilated pores

Protocol summary

Summary

Study purpose: Efficacy of the co2 fractional laser on the treatment of dilated pores determination study design: phase 2 clinical trial. Methodology: Target selection: Patients referring to Shohadaye Tajrish Educational Hospital a) Inclusion criteria: 1) females between 18 and 50 years of age Exclusion criteria included: 1) males 2) females younger than 18 years old 3) pregnancy and lactation 4) cosmetic procedures affecting the treatment area (e.g., botulinum toxin, dermabrasion, chemical peeling, laser surgery, or face-lift) within the last 6 months 5) oral isotretinoin within the last 6 months 6) history of keloid formation Target sample size: 30 b) Study interventions: Patients were assigned to receive treatment on face with a fractional CO2 laser. c) Time of the intervention: 3 treatment sessions with 1 month interval for each patient d) Study outcome: The evaluation both before each treatment session and 3 months after the last one will be done with digital photography. Assessment of side effects (e.g. Pain, stinging, pruritus, redness, bulla, bleeding, crust formation, hypopigmentation, hyperpigmentation, scar, atrophy) will be performed

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016032027109N1**

Registration date: **2016-06-02, 1395/03/13**

Registration timing: **na**

Last update:

Update count: **0**

Registration date

2016-06-02, 1395/03/13

Registrant information

Name

Fahimeh Abdollahimajd

Name of organization / entity

Skin Research Center

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Iran (Islamic Republic of)

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Recruitment status

Not enough for processing

Funding source

Dermatology Research Center of Shahid Beheshti University of Medical Science

Expected recruitment start date

2007-12-01, 1386/09/10

Expected recruitment end date

2006-05-01, 1385/02/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the efficacy of the co2 fractional laser on the treatment of dilated pores

Public title

Efficacy of laser on dilated pores

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: females between 18 and 50 years of age Exclusion criteria: males; females younger than 18 year old; pregnancy and lactation; cosmetic procedures affecting the treatment area (e.g., botulinum toxin, dermabrasion, chemical peeling, laser surgery, or face-

lift)within the last 6months;oral isotretinoin within the last 6months; history of keloid formation

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Skin Research Center,Shahid Beheshti University of Medical Science

Street address

The SBMU SRC (Skin Research Center),Shohada-E-Tajrish Educational Hospital,Qods Sq. ,Tehran, Iran

City

Tehran

Postal code

Approval date

2015-06-25, 1394/04/04

Ethics committee reference number

IR.SBMU.RAM.REC.1394.4/4

Health conditions studied

1

Description of health condition studied

dilated pores

ICD-10 code

L98.8

ICD-10 code description

Other specified disorders of skin and subcutaneous tissue

Primary outcomes

1

Description

pores improvement

Timepoint

before treatment_before each session_3month after the last session

Method of measurement

improvement percentage_comparing digital photographs by dermatologist

Secondary outcomes

1

Description

side effects(pain-burning and stinging-erythem-edema-bulla-bleeding-crust formation-hypopigmentation-hyperpigmentation-scar-atrophy)

Timepoint

one week after each treatment session

Method of measurement

patient evaluation with questionnaire-dermatologist evaluation

Intervention groups

1

Description

Topical anesthetic gel is applied to both sides of face and left for 30minutes. The patient's eyes are covered with a shield during the entire procedure. Patients are assigned to receive treatment with a fractional Co2 Laser on face ;which is focused to a spot size of approximately 120 micrometer in diameter ,the pulse duration of 10 milliseconds and pulse energy varies from 5 to 70mj .Three treatment sessions with 1 month interval for each patient will be done.The evaluation before each treatment session and 3months after the last one will be done with digital photography .

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohada-E- Tajrish Educational Hospital

Full name of responsible person

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Science-Skin Research Center

Full name of responsible person

Dr Parviz Toosi

Street address

Iran, Tehran, Velenjak St. , Shahid Chamran Highway

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Shahid Beheshti University of Medical Science-Skin Research Center

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

empty

Person responsible for general inquiries

Contact**Name of organization / entity**

Skin Research Center

Full name of responsible person

Elmira Asadi

Position

Assistant Resident of Dermatology

Other areas of specialty/work**Street address**

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Person responsible for scientific inquiries

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Assistant Professor of Dermatology

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Assistant Resident of Dermatology

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Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty