

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jul 2026

Evaluation of facial contour changes following buccal fat pad removal surgery

Protocol summary

Study aim

Evaluation of facial contour changes following buccal fat pad removal surgery

Design

A clinical non randomised trial, without controlled group, phase 2 on 15 patients, with postoperative care and outcome assessment

Settings and conduct

Location: Tehran Farhikhtegan Hospital Preparation of preoperative images: 3-D scans, 2-D photography in frontal and left and right profile and left and right 45 degree view, Ultrasound from each site of the face Method: injection of local anesthesia Lidocaine 2% in buccal area. Make an incision about 1cm between Parotid duct and buccal vestibula in the vicinity of upper 6 tooth, take out buccal fat pad without any external force, suturing of incision with resorbable suture 3_0.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Medium body size Normal facial muscles function Normal facial nerve function Among 20 to 50 years old Exclusion criteria: Systemic diseases An history of trauma in the face area An history of surgery in the face area An history of filler or botox injection in the face area Using anticoagulant drugs

Intervention groups

Buccal fat pad removal surgery and its effect on facial buccal contour by using 3-D scanner device before and after of operation. There is no control group.

Main outcome variables

Facial buccal contour

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230909059385N1**

Registration date: **2023-09-18, 1402/06/27**

Registration timing: **prospective**

Last update: **2023-09-18, 1402/06/27**

Update count: **0**

Registration date

2023-09-18, 1402/06/27

Registrant information

Name

Marjan Hosseinpour

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4482 1976

Email address

marjan.hosseinpour6623@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-09-23, 1402/07/01

Expected recruitment end date

2023-10-07, 1402/07/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of facial contour changes following buccal fat pad removal surgery

Public title

Evaluation of Buccal fat pad removal surgery on facial contour

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

Individuals applying buccal fat pad removal surgery
Medium body size Individuals in between 20-50 years old
Normal facial muscles function Normal facial nerve function

Exclusion criteria:

Lactating and pregnant mothers Patients with acute and chronic diseases History of trauma Taking anticoagulant drugs Masseter muscle hypertrophy Mandibular angle hypertrophy Weight changes during the study

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **15**

More than 1 sample in each individual

Number of samples in each individual: **2**

Buccal face contour on each side of the face

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Using a 3_D scanning device in order to examin changes in facial contour

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tehran Azad University of Medical Sciences

Street address

Tehran Islamic Azad University of Medical Sciences, Khaghani Ave., Shariati Ave.

City

Tehran

Province

Tehran

Postal code

1916893813

Approval date

2023-06-12, 1402/03/22

Ethics committee reference number

IR.IAU.DENTAL.REC.1402.049

Health conditions studied

1

Description of health condition studied

Buccal fat pad

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Facial buccal contour

Timepoint

Before operation and 6 monthes after operation

Method of measurement

3-D scanner device and questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Buccal fat pad removal surgery

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Farhikhtegan Hospital

Full name of responsible person

Marjan hosseinpour

Street address

Farhikhtegan Hospital, Sattari Expy

City

Tehran

Province

Tehran

Postal code

1469856333

Phone

+98 912 226 9748

Email

Marjan.hosseinpour6623@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Dr. Masoud Parsania

Street address

Headquarters of Tehran Medical Science of Islamic Azad University, Gole Yakh Ave., Aeine Blvd., Shariati Ave., Tehran

City

Tehran

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Tehran

Postal code

1949635881

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Fax

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Email

iuc@iautmu.ac.ir

Web page address

<http://tms.iau.ir/research/fa>

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Islamic Azad University

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Islamic Azad University

Full name of responsible person

Marjan Hosseinpour

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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Person responsible for scientific inquiries

Contact

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Full name of responsible person

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Person responsible for updating data

Contact

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

Because of moral issues

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available